AUXILAB

Material de laboratorio
Laboratory supplies

General catalog

AUXILAB 2025/2027

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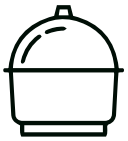

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AUXILAB
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THE COMPANY

Since its establishment in 1976, Auxilab has been dedicated to the production and distribution of laboratory equipment. The quality of its products, investment in R&D, highly qualified team, and competitive prices have made it a benchmark in the sector.

- International coverage in over 70 countries.
- Own brands such as Nahita, Nahita-Blue, Zuzi, Digipette, Ura Technic Axavet, ENDOglassware, ENDOplasticware, ENDOproteclab and RSLAB.
- Represented brands such as Socorex, Chemetrics, Hydrolab, Kartell, Jipo, Simax, Glassco, Saint-Gobain, BRANDON, Plum and Univet.
- 6,500 m² facilities in Beriáin (Navarra).
- We offer a wide range of solutions for healthcare, food, environmental, chemical-pharmaceutical, and educational laboratories.
- ISO 9001 certification by AENOR (since 1999).
- Product identification with GTIN-13 barcode (formerly known as EAN13).
- Company affiliated with Ecoasimelec for the correct collection and treatment of Waste Electrical and Electronic Equipment (WEEE).

MISSION

Offering the best quality / price ratio

To provide distributors with the best quality/price ratio for all products, with reduced delivery times.

Ensuring maximum customer satisfaction

To achieve maximum customer satisfaction by offering excellent technical and after-sales service.

Providing a wide portfolio of products

To offer customers a wide portfolio of high-quality products at very competitive prices.

Warranty

Distribution of items is carried out exclusively through authorized distributors, ensuring greater proximity, service, and guarantee.

WHY CHOOSE US?

Price

Excellent quality-price ratio, ensuring maximum profitability for our clients.

Service

Exceptional customer service, including transport, inventory management, and order processing.

Stock

Large stock availability with minimal shortages.

Logistics

Immediate delivery - orders are dispatched from our warehouses within 24 / 48 hours.

After-Sales Service

A highly qualified technical team dedicated to addressing all customer needs efficiently.

AT YOUR SERVICE

The main objective of Auxilab is to provide excellent customer service. For this reason, we are firmly committed to adding value to every purchase made by our clients.

Advisory Services

We offer comprehensive and personalized advice throughout the entire sales process. We recommend the best purchasing options and the most suitable products based on each client's specific needs. Additionally, we organize training sessions for our distributors, providing in-depth knowledge of our product range and showcasing the latest innovations.

Post-Sales Technical Assistance

Our qualified technical support and after-sales service team ensures a swift response and assistance in all the countries where we operate. We act promptly and efficiently, always prioritizing the customer's needs above all else.

GENERAL SALES TERMS AND CONDITIONS

01 | Preliminary Considerations

AUXILAB S.L. (hereinafter AUXILAB) is registered in the Commercial Registry of Navarra, Volume 362, Folio 240, Sheet NA-1523, Entry 1, VAT number B31072218, and has its registered office at Polígono Morea Norte, Calle D Nave 8, 31191 Beriain (Navarra).

The Supplies provided by AUXILAB are governed by the general conditions expressed herein, which prevail over any other conditions that may appear in any other document of the CLIENT, unless expressly accepted in writing by AUXILAB.

02 | Scope of Application

AUXILAB supplies its products exclusively to individuals or legal entities acting within the scope of a business or professional activity (hereinafter the CLIENT), and therefore falls outside the scope of regulations concerning Consumers and Users.

These General Sales Terms and Conditions are valid exclusively for AUXILAB sales in the export market.

03 | Partial nullity

Any modification or cancellation agreed by the parties or forced by legal reasons on any of the present stipulations will not imply the nullity of the others, which will remain in force.

04 | Liability due to use

The CLIENT is solely responsible for the choice of the product, as well as for the use or function to which it is intended. AUXILAB is not responsible, nor does it guarantee that the product is suitable for the technical applications intended by the CLIENT, nor for achieving, in whole or in part, the objectives set by the CLIENT when making their purchase. Any usage recommendation made by AUXILAB staff is done in good faith and in accordance with our knowledge, without implying an explicit or implicit statement of the product's suitability for the use determined by the CLIENT.

All the products we supply are exclusively designed to be used in laboratories by properly qualified personnel, with users being solely responsible for their handling and the design of the experiments they conduct with them.

Likewise, it is the CLIENT's responsibility to comply with the applicable legal regulations, and especially with the provisions related to occupational safety, hygiene, and accident prevention.

Specifically in the case of the equipment, the CLIENT is solely responsible for its maintenance, periodic calibration and/or verification, and for being aware of any applicable regulations to which they are subject.

The CLIENTS must be particularly cautious if, under their exclusive responsibility, they make the equipment and products supplied by AUXILAB available to minors, even in the context of a school laboratory.

05 | Description of the products

The photographs and illustrations shown in AUXILAB's catalogs, brochures, technical sheets, or websites are for guidance only and may be subject to changes. Likewise, the indicated weights, sizes, and dimensions are approximate values and cannot be considered contractual.

The product specifications listed in the catalogs and technical data sheets indicate when they comply with a specific regulation or standard (for example, "suitable for food use," etc.), but they cannot guarantee compliance with any other regulations not expressly mentioned.

06 | Prices and minimum order quantity

The prices indicated in our tariff, website, promotions, and sale quotes are in Euros (€), and do not include transport cost, except when specifically requested by the client. Our prices are generally valid throughout the current year or until the date expressly indicated in the promotion or sale quote. For transactions requiring a different currency (USD), please contact our export department directly.

However, we reserve the right to modify any price without prior notice in the event of significant changes in the cost price, changes exceeding 3% in the EUR exchange rate against the US dollar (USD), or in case of detecting any error.

The prices include the standard packaging that AUXILAB deems appropriate for the transportation of goods by road. If non-standard packaging is required, the price will be determined on a case-by-case basis and will be borne by the CLIENT. This case is applicable, for example, for the transportation of glass tubes, where AUXILAB must use special packaging to protect the product, with a cost that will be confirmed by our sales department.

For orders under 150 € net (transport not included), an additional fee of 40 € will be charged on the invoice as management fees.

The prices do not include installation, commissioning, or training costs, except when expressly stated in our offers.

07 | Orders and delivery times

An order will only be considered accepted when AUXILAB sends the "Order Confirmation" to the CLIENT in writing, including an estimated delivery time for those references not available in stock. The CLIENT has a maximum period of 24 hours to report any discrepancies, errors, or omissions detected in their order.

If any cause ultimately makes the delivery of a product or service impossible, AUXILAB reserves the right to cancel the pending order and be released from the obligation to deliver the product, with the CLIENT not being able to claim any damages. When possible, in these cases, AUXILAB will try to offer the CLIENT an alternative product with similar technical characteristics.

If you do not want to receive partial shipments, please indicate this explicitly when placing the order.

08 | Shipments

Auxilab has a partnership with a transport agency that offers daily pickups and competitive rates. Upon the client's request, we can provide transport cost estimates through this agency. Transport costs will only be included in the proforma/order upon the client's explicit written request.

Any additional charges to the standard service caused by the CLIENT's particular circumstances (e.g., absence at the delivery address at the time of delivery, complications during unloading due to lack of appropriate means, etc.) will be borne by the CLIENT.

If the client arranges collection with their own carrier/courier, AUXILAB will provide the delivery note indicating the address and timetable for collections. It is the client's responsibility to provide this document to their carrier/courier, who must identify the collection number at the warehouse. Without this number, the goods will not be released to the carrier/courier.

09 | Incidents during shipment and deliveries

If, upon receiving the packages from the carrier, external damages are noticed or there are discrepancies between the number of packages listed on the delivery note and the ones delivered, the CLIENT must accept the merchandise by noting these circumstances in writing on the carrier's delivery note and keep any potentially damaged products available for AUXILAB or the carrier.

The CLIENT has 24 hours from receipt of the goods to notify AUXILAB of such incidents or any other incidents that may arise when inspecting the received merchandise. AUXILAB will analyze the incident and act accordingly to rectify it.

AUXILAB reserves the right to evaluate each case individually. In exceptional situations where there are reasonable doubts about the legitimacy of the claim, based on objective evidence or precedents, the company may decide not to proceed with the replacement of the material.

If, during the processing of a transport incident, it is found that for any reason it is not possible to replace the original product purchased, AUXILAB may offer a product with similar or superior specifications or, if the CLIENT rejects the alternative, refund the invoiced amount and cancel the purchase.

10 | Returns

Returns will be accepted with prior authorization from AUXILAB.

The CLIENT must communicate this in writing to their usual contact person, clearly indicating the reference, quantity, date of purchase, delivery note or invoice number. Once their request has been received, they will be sent a return number (RMA) and a label that they must record on the outside of the packaging. In any case, returns must be made within 15 days of the delivery date, with the material in perfect condition, sealed and with the original packaging.

Merchandise must always be returned with freight prepaid, except in case of non-conformity and/or shipping error on our part, to our facilities located at: Polígono Industrial Morea Norte D Nº6, 31191 Beriain (Navarra).

The amount to be refunded is subject to the result of the inspection. Costs incurred for inspection and handling will be deducted from this amount, when applicable. Goods returned without authorization will not be accepted and will be returned at the customer's expense and risk.

11 | Payment

Payment terms for new CLIENTS are payment in advance against proforma invoice.

AUXILAB reserves the right to offer improved payment terms to customers who establish a continuous and growing business relationship with our company. These enhanced terms are at AUXILAB's discretion, subject to COFACE's approval, and will be reviewed periodically to ensure they align with the evolving business relationship.

AUXILAB reserves the right to demand full or partial payment in advance in case of special purchases such as custom manufacturing, unusual quantities, etc.

The invoice due date shall not be subject to delays caused by banking, customs, or transport documentation processes, nor by any delays in transportation or shipping, all of which are beyond Auxilab's control. Payment must be made on the due date unless a specific written agreement has been made with the finance department.

If the CLIENT incurs a delay after the agreed payment deadline has passed, AUXILAB reserves the right to require advance payment for future orders, withhold pending shipments, and change payment terms for new orders.

12 | Property Rights

By express agreement, the products supplied shall remain the property of AUXILAB until full payment has been received. The CLIENT commits to returning the products in perfect condition if unable to meet the invoice due dates.

13 | Residual waste management

All products supplied by AUXILAB, including their containers and packaging, once acquired are the property of the CUSTOMER and the CUSTOMER is solely responsible for their disposal. The CUSTOMER must take the appropriate measures to dispose of the waste in a safe way, respectful of people and the environment and in accordance with the applicable legal provisions. The return of containers or packaging is not allowed.

14 | Data protection

The data provided to AUXILAB, as the data controller, will be used for any processes directly or indirectly derived from the commercial relationship between the parties and to allow the CLIENT to receive commercial information about products supplied by AUXILAB. Under no circumstances will AUXILAB share data from its database with other companies or entities, except in cases where there is a legal obligation to do so

"In accordance with the Organic Law on Personal Data Protection 15/1999 of December 13 and Regulation (EU) 2016/679 of April 27, you have the right to obtain confirmation as to whether AUXILAB is processing your personal data. Consequently, you have the right to access your personal data, rectify inaccurate data, request deletion when the data is no longer necessary, as well as the right to have your data removed and to data portability. To exercise these rights, please contact us via email at info@auxilab.com

15 | Submission to jurisdiction and competence

The parties, expressly waiving any other jurisdiction that may correspond to them, agree that any litigation, regardless of its nature, related to the supplies made by AUXILAB will be under the exclusive jurisdiction of the Courts and Tribunals of Pamplona (Navarra).

WARRANTY CONDITIONS

VERY IMPORTANT: Do NOT ship any product without the return form (RMA) and the label provided. Once the RMA is issued, you have a period of 1 month to send the equipment to our facility.
Failure to comply with these requirements may result in a longer delay in resolution or repair time and may even lead to the loss of the product.
We are not responsible for the loss of equipment that has not been sent under these conditions.

[01] The equipment will be covered by a 2-year warranty period for all our own brands and the warranty offered by the manufacturer for represented brands, starting from the date of the delivery note.

[02] Technical Assistance will be provided exclusively at the Technical Service, located at P.I. Morea Norte, C/ D, 8, Beriain (Navarra). For the repair or replacement of any material, it will be mandatory to communicate the purchase invoice number and a note explaining the existing problem, as well as the packaging and documentation (manuals, etc.) and other original accessories in perfect condition.

[03] Due to the continuous updates and improvements of our equipment, as well as changes in the components used, AUXILAB only sells the standard accessories listed in our price list

[04] The warranty of the equipment and components covers only equipment failures due to manufacturing defects.

[05] The warranty does not cover the following cases:

Use not in accordance with the equipment specifications or manufacturer's instructions, power surges in the electrical supply, incidents during transportation due to inadequate packaging by the CLIENT, negligence in use, weather-related events or force majeure (such as floods, frost, overheating, fires, earthquakes, high humidity, corrosive atmosphere, among others), and wear and tear due to normal use of the equipment.

Additionally, the warranty will be void if the equipment is tampered with, repaired by third parties, or contains non-original components.

[06] Limited-life spare parts such as lamps, fuses, brushes, batteries, etc., are not covered by the warranty. Nor will parts that are subject to wear and tear due to natural use or breakdowns caused by catastrophic or atmospheric causes, knocks or falls, be covered by the warranty period.

[07] In the event that the product under warranty is considered irreparable or the cost of repair is disproportionate to its value, AUXILAB will propose replacing it with an identical product or, when this is not possible, with a product of similar or superior specifications.

[08] To avoid risks to our staff, any equipment that has been in contact with toxic or hazardous substances must be decontaminated by the CLIENT before being sent to AUXILAB. Additionally, the CLIENT must sign a "Decontamination Declaration".

[09] The warranty covers the replacement of parts, and the labor required for repairs under the conditions mentioned in the previous section. If, after AUXILAB's assessment of the issue, it is determined that the case is not covered by the warranty as specified above, AUXILAB reserves the right to charge the CLIENT for all incurred costs.

[10] The goods subject to warranty will be shipped freight prepaid by the CLIENT to our facilities in Pol. Ind. Morea Norte, Calle D, 6, 31191 Beriain (Navarra).

[11] Provided that the goods travel at the buyer's risk, AUXILAB will not be responsible for any damage, loss, freight or accidents that may occur in the shipment of the goods. It is recommended to insure the material through the transport companies.

[12] For all repairs not under warranty, a prior written estimate will always be provided. If the estimate is ultimately not accepted, the CLIENT is responsible for covering the associated costs. The warranty does not cover the time spent by our technical service verifying products without any faults; in such cases, the CLIENT will be charged □36 for diagnostics.

[13] The warranty on repairs is 6 months.

[14] AUXILAB does not advance or lend material from its stock while the client's material is being repaired.

[15] Once the equipment under warranty has been repaired, it will be returned to the CLIENT with his next order. If the repair is not covered by the warranty, the same is applicable, or a transport cost will be charged on the repair invoice for its return.

If advance payment of the repair invoice is required, a storage and maintenance fee of € 1.50 per day will be applied if payment is not received within one month from the notification date. If the product is not collected within one year, the CLIENT will forfeit ownership of the item (Art. 460, 4º and 1968 of the Civil Code).

[16] These conditions will only affect equipment with a serial number.

OWN BRANDS

Equipment, consumables, and basic laboratory supplies

Optical equipment

Plastic laboratory items

Safety range

Veterinary articles

Laboratory equipment

Optical equipment

Glass laboratory items

Liquid handling

Microscope slides

Filter paper

Stirring equipment and evaporators

Cell counting chambers

REPRESENTED BRANDS

High-quality plastic, rubber, and silicone products. Durable and resistant materials for laboratory use

Liquid handling articles. Characterized by their high precision

Plastic laboratory articles

Plastic products and precision instruments for laboratories

Specialists in operating room lamps

Glass consumables Capable of withstanding high temperatures and offering chemical stability

Glassware manufactured to ISO standards. High quality, resistance, and durability

Range of pH meters, conductivity meters, and analytical equipment

Laboratory instruments and equipment

Safety range

Specialized equipment for oenology and laboratory applications

Water analysis kits

High-quality technical porcelain articles

Range of safety glasses and shields

Leading manufacturer of scientific and laboratory equipment, specialized in autoclaves

Technological solutions and equipment for industries

Water purification systems

LEGEND OF PICTOGRAMS

AUTOMATIC INTERNAL ADJUSTMENT:
Adjustment using a motor-driven internal adjustment weight

USB:
For connecting the device to a printer, computer, or other peripheral.

WEIGHING UNITS:
Selectable by pressing the unit button.

BATTERY POWER SUPPLY:
For operation with batteries; the type of battery is specified for each device.

EXPANSION MEASUREMENT STRIPS

BORO 3.3
Borosilicate glass.

SUITABLE
Item suitable for food contact.

IVD
Item with IVD certification.

CALIBRATION ADJUSTMENT PROGRAM:
Requires an external calibration weight.

PIECE COUNTING:
Selectable number of references. Switchable display from unit count to weight.

-190 °C
Withstands temperatures as low as -190 °C

RS-232 DATA INTERFACE:
For connecting the device to a printer, computer, or network.

PERCENTAGE DETERMINATION:
Determination of the deviation in % from the theoretical value (100%).

BATTERY POWERED

POWER ADAPTER:
110/220 V standard in the EU.

DIN 4798
Complies with DIN standards.

AUTO
Can be autoclaved at the temperature indicated by the icon.

COMPENSATION OF ELECTROMAGNETIC FORCE:
Coil in a permanent magnet, for more accurate weighing.

ISO 3819
Complies with ISO standards.

120 °C
Supports temperatures up to.

MAT
Sterile items.

LOWER WEIGHING:
Using a hook on the bottom of the scale.

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BBB - With pestle, glazed, porcelain

With pestle

1| For grinding and mixing of low-hardness substances. Enamelled mortar, unglazed hand, wide, stable base. With spout and hand.

Code	Capacity	Diameter	Pestle lenght
BBB001	150 mL	100 mm	100 mm
BBB002	300 mL	130 mm	120 mm
BBB003	500 mL	150 mm	150 mm
BBB004	1000 mL	210 mm	200 mm

Code	Capacity	Diameter	Pestle lenght
BBB011	25 ml	60 mm	52 mm
BBB012	30 mL	84 mm	84 mm
BBB013	70 mL	81 mm	84 mm
BBB014	75 mL	91 mm	135 mm
BBB015	110 mL	100 mm	135 mm
BBB016	160 mL	113 mm	135 mm
BBB017	220 mL	125 mm	150 mm
BBB019	500 mL	163 mm	175 mm

BBC - With pestle, not glazed, porcelain

Code	Capacity	Diameter	Pestle lenght
BBC001	25 mL	60 mm	90 mm
BBC002	50 mL	80 mm	105 mm
BBC003	100 mL	100 mm	115 mm
BBC004	300 mL	120 mm	130 mm
BBC005	500 mL	150 mm	180 mm
BBC006	1000 mL	216 mm	215 mm
BBC007	2000 mL	254 mm	245 mm

BBD - With pestle, glass

1| Wide, stable base, polished interior and exterior. With spout.
2| Includes ball-shaped hand and rough finish on the end.

Code	Capacity	Diameter	Pestle lenght
BBD001	90 mL	60 mm	90 mm
BBD002	100 mL	80 mm	105 mm
BBD003	200 mL	100 mm	115 mm
BBD004	400 mL	120 mm	130 mm
BBD005	900 mL	150 mm	180 mm

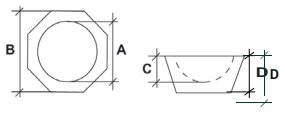
BORO 3.3

Code	Capacity	Diameter	Height
BBD006	100 mL	80 mm	60 mm
BBD007	150 mL	100 mm	75 mm
BBD008	250 mL	120 mm	90 mm
BBD009	750 mL	150 mm	110 mm
BBD010	2000 mL	200 mm	120 mm

BBF - With pestle, agate

1| Supplied with hand. Interior and hand polished and evenly sanded exterior surface.

dimensions



A: mortar diameter
B: mortar width
C: height of cavity
D: total height of mortar

Code	Cap.	Measurements (BxAxCxD)	Hand length
BBF001	8 mL	50x40x12x25 mm	40 mm
BBF002	34 mL	75x60x21x32 mm	60 mm
BBF003	67 mL	100x80x24x37 mm	80 mm
BBF004	130 mL	120x100x30x47 mm	100 mm

BBF - With pestle, agate

Code	Cap.	Measurements (BxAxCxD)	Hand length
BBF005	210 mL	140x120x34x52 mm	120 mm
BBF006	290 mL	150x130x40x57 mm	130 mm
BBF007	390 mL	160x140x45x62 mm	140 mm
BBF008	500 mL	170x150x50x67 mm	150 mm
BBF009	640 mL	180x160x55x72 mm	160 mm
BBF010	760 mL	190x170x58x75 mm	170 mm
BBF011	875 mL	200x180x60x77 mm	180 mm
BBF012	1160 mL	220x200x65x82 mm	200 mm

BBH - Without pestle, glazed, porcelain

Without pestle

1| Pestle not included. Maximal application temperature 1000ºC

Code	Capacity	Diameter	Height
BBH001	25 mL	51 mm	32 mm
BBH002	30 mL	56 mm	36 mm
BBH003	70 mL	63 mm	41 mm
BBH004	75 mL	76 mm	45 mm
BBH005	110 mL	83 mm	50 mm
BBH006	160 mL	90 mm	56 mm
BBH007	220 mL	105 mm	64 mm
BBH008	400 mL	125 mm	71 mm
BBH009	500 mL	139 mm	82 mm
BBH010	650 mL	150 mm	90 mm
BBH011	1000 mL	180 mm	104 mm
BBH012	2250 mL	224 mm	127 mm
BBH013	4300 mL	268 mm	160 mm

Without pestle, glazed with base

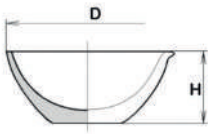
1| Pestle not included. Maximal application temperature 1000ºC

Code	Capacity	Diameter	Height
BBH014	150 mL	85 mm	65 mm
BBH015	300 mL	103 mm	75 mm
BBH016	420 mL	121 mm	88 mm
BBH017	730 mL	152 mm	95 mm
BBH018	1200 mL	178 mm	110 mm

BBJ - Without pestle, unglazed, porcelain

DIMENSIONS - porcelain mortars

D: diameter
H: height



Without pestle, unglazed

1| Maximal application temperature 1350 ºC. Pestle not included.

Code	Capacity	D	H
BBJ001	25 mL	51 mm	32 mm
BBJ002	30 mL	56 mm	36 mm
BBJ003	75 mL	76 mm	45 mm
BBJ004	110 mL	83 mm	50 mm
BBJ005	160 mL	90 mm	56 mm
BBJ006	220 mL	105 mm	64 mm
BBJ007	400 mL	125 mm	71 mm
BBJ009	650 mL	150 mm	90 mm
BBJ010	1000 mL	180 mm	104 mm
BBJ011	2250 mL	224 mm	127 mm
BBJ012	4300 mL	268 mm	160 mm

Without pestle, unglazed with base

Code	Capacity	D	H
BBJ013	150 mL	85 mm	65 mm
BBJ014	300 mL	103 mm	103 mm
BBJ015	420 mL	121 mm	88 mm
BBJ016	730 mL	152 mm	95 mm
BBJ017	1200 mL	178 mm	110 mm

BBK - Without pestle, glass

Mortar without pestle, glass

BORO 3.3

Code	Capacity	D	H
BBK001	100 mL	80 mm	60 mm
BBK002	150 mL	100 mm	75 mm
BBK003	250 mL	130 mm	90 mm
BBK004	750 mL	150 mm	110 mm
BBK005	2000 mL	200 mm	135 mm

Potter mortars

1| Made of borosilicate glass. To be used with PTFE pestle code. BBQ006 (not included)

NOTE: CHECK PAGE 13

Code	Capacity	D	H
BBK006	2 mL	8 mm	120 mm
BBK007	5 mL	12 mm	135 mm
BBK008	10 mL	15 mm	150 mm
BBK009	15 mL	16 mm	155 mm
BBK010	30 mL	25 mm	175 mm
BBK011	50 mL	32 mm	195 mm

BBL - Pestles, French shape, porcelain

Melamine mortars

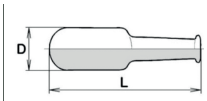
1| White, with spout. Stable circumferential edge.

Code	Capacity	D	H
BBL500	300 ml	125 mm	75 mm
BBL501	500 ml	150 mm	90 mm

BBM - Pestles, French shape, porcelain

Pestle for mortar french unglazed

DIMENSIONS



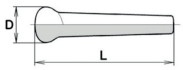
D: diameter
L: lenght

Code	D	L
BBM001	18 mm	68 mm
BBM002	20 mm	88 mm
BBM003	25 mm	96 mm
BBM004	34 mm	140 mm
BBM005	37 mm	158 mm

BBN - Pestles, standard shape, porcelain

Unglazed

DIMENSIONS



D: diameter
L: lenght

Code	D	L
BBN001	19 mm	65 mm
BBN002	26 mm	90 mm
BBN003	27 mm	110 mm
BBN004	36 mm	125 mm
BBN005	40 mm	145 mm
BBN006	45 mm	200 mm

Code	D	L
BBN007	14 mm	54 mm
BBN008	24 mm	115 mm
BBN009	30 mm	135 mm
BBN010	36 mm	150 mm
BBN011	42 mm	175 mm
BBN012	55 mm	210 mm
BBN013	74 mm	250 mm
BBN014	85 mm	300 mm
BBN015	101 mm	370 mm

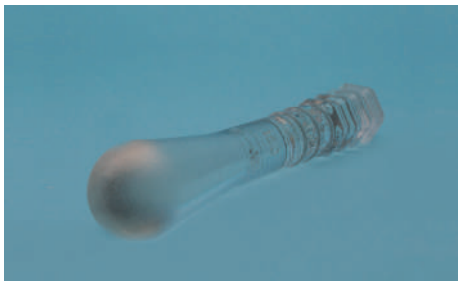
BBN - Pestles, standard shape, porcelain

Glazed

Code	D	L
BBN016	24 mm	115 mm
BBN017	30 mm	135 mm
BBN018	36 mm	150 mm
BBN019	42 mm	175 mm
BBN020	55 mm	210 mm
BBN021	74 mm	250 mm
BBN022	85 mm	300 mm
BBN023	101 mm	370 mm

BBQ - Pestles, glass

Glass hands



Code	D	L	For mortar
BBQ001	20 mm	90 mm	60 mm
BBQ002	20 mm	105 mm	80 mm
BBQ003	25 mm	115 mm	100 mm
BBQ004	35 mm	130 mm	120 mm
BBQ005	38 mm	160 mm	150 mm

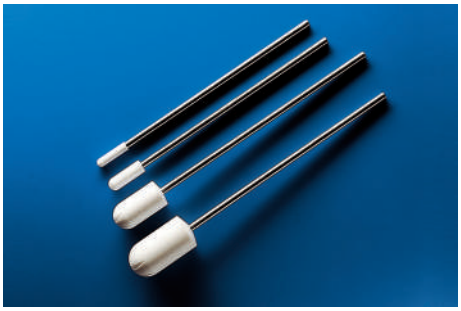
Glass hands, grinding and non-grinding

BORO 3.3

Code	Length	End
BBQ017	30 mm	Sin esmerilar
BBQ013	110 mm	Grinding
BBQ015	150 mm	Grinding
BBQ018	150 mm	Sin esmerilar
BBQ016	180 mm	Grinding
BBQ019	180 mm	Sin esmerilar

BBQ - Pestles, glass

Ribbed bottom piston



1| PTFE head and stainless steel shaft. For glass homogeniser, ckeck page 12.

Code	For homogenizer	Length
BBQ006	2 mL *(BBK006)*	230 mm
BBQ007	5 mL *(BBK007)*	235 mm
BBQ008	10 mL *(BBK008)*	270 mm
BBQ009	15 mL *(BBK009)*	270 mm
BBQ010	30 mL *(BBK010)*	270 mm
BBQ011	50 mL *(BBK011)*	270 mm

BBR - Pestles, agate

Pestle for agate mortar

Code	For mortars	Lenght
BBR001	15 mL	59 mm
BBR002	30 mL	63 mm
BBR003	70 mL	81 mm
BBR004	140 mL	110 mm

BBS - Pestle, melamine

Melamine pestle

1| White, heavy design. With ergonomically shaped grip.

Code	Lenght	Head ø
BBS501	145 mL	35 mm
BBS502	160 mL	40 mm
BBS503	215 mL	42 mm

BDB - With stopcock

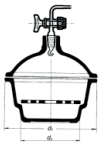
Stopcock lid desiccator

1| Lid with ground joint and vacuum tap. With porcelain disc.

Code	Cap.	Internal Ø	External Ø	Height
BDB002	2 L	150 mm	210 mm	220 mm
BDB003	4 L	200 mm	270 mm	300 mm
BDB004	7 L	250 mm	305 mm	360 mm
BDB005	14 L	300 mm	365 mm	420 mm

Desiccator with plastic knob

Dimensions



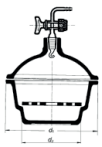
d1: External Ø
d2: Internal Ø

1| Plastic knob lid. Desiccator disk NOT included.

Code	d2	d1
BDB006	100 mm	151 mm
BDB007	150 mm	210 mm
BDB008	200 mm	269 mm
BDB009	250 mm	329 mm
BDB010	300 mm	392 mm

Desiccator SJ 24/29

Dimensions



d1: External Ø
d2: Internal Ø

1| Glass vacuum stopcock lid, ground 24/29. Plastic knob lid .

Code	d2	d1
BDB011	100 mm	151 mm
BDB012	150 mm	210 mm
BDB013	200 mm	269 mm
BDB014	250 mm	329 mm
BDB015	300 mm	392 mm

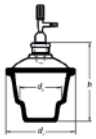
BDB - With stopcock

Desiccator SJ 24/29 with stopcok

ISO 13130

BORO 3.3

Dimensions



d1: Ø externo
d2: Ø interno
h: height

Code	d1	d2	h
BDB020	153 mm	94 mm	177 mm
BDB021	215 mm	143 mm	247 mm
BDB022	270 mm	192 mm	300 mm
BDB023	320 mm	239 mm	349 mm
BDB024	380 mm	285 mm	424 mm

Vacuum desiccator

1| Polypropylene (PP) base and disc, polycarbonate (PC) lid. Autoclavable. Connection socket: 10 mm. 3-way PTFE stopcock. Vacuum up to 740 mm/Hg/24h.

Code	Diameter
BDB016	200 mm

Vacuum desiccator

1| They withstand a vacuum of -740 mm/HG with a loss of less than 20 mm/Hg in 24 h. Polycarbonate top cover and polypropylene bottom. Lid with polystyrene valve. They have an internal basket that serves as a container.

Code	Internal Ø	Vol.	Height ext.	Height int.
BDB018	150 mm	2,15 L	190 mm	135 mm
BDB017	200 mm	4,35 L	230 mm	175 mm
BDB019	250 mm	9,20 L	300 mm	225 mm

BDB - With stopcock

Vacuum desiccator

1| Crystal clear, with stopcock for evacuation. Perforated disc made of PP. Lid is sealed by a neoprene gasket. Ideal for use in educational laboratories.

Code	Diameter	ø disc	Height
BDB505	273 mm	230 mm	311 mm

VACUO-TEMP desiccator without bell

1| With temperature limiter. For adjustable temperatures from +5° to 170°C. Stability ±1°C to 1°C.
2| Digital electronic temperature and time control (3 digit).
3| Pt 100 temperature sensor. External body in stainless steel. AISI 304.
4| Supplied with bell and silicone gasket. Analogue vacuum meter.

Code	BDB501
Vacuum max.	10^{-2} mm Hg
Volume	3 L
ø heating plate	23,5 cm
Dimensions	17x28x34 cm
Weight	9 kg

BDD - Without stopcock

1| Supplied with porcelain disc.

Code	Cap.	Internal Ø	External Ø	Height
BDD001	1 L	100 mm	136 mm	180 mm
BDD002	2 L	150 mm	210 mm	220 mm
BDD003	4 L	200 mm	270 mm	300 mm
BDD004	7 L	250 mm	305 mm	360 mm
BDD005	14 L	300 mm	365 mm	420 mm

BDD - Without stopcock

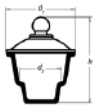
Knob lid disecator

1| Includes lid with polypropylene stopper. Porcelain disc not included.

Code	Internal Ø	External Ø
BDD006	100 mm	151 mm
BDD007	150 mm	210 mm
BDD008	200 mm	269 mm
BDD009	250 mm	329 mm
BDD010	300 mm	392 mm

Desiccator with glass knob

DIMENSIONS



d_1: external diameter
d_2:internal diameter
h: height

1| Includes glass button cover. Porcelain disc not included.

Code	d1	d2	h
BDD011	153 mm	94 mm	191 mm
BDD012	215 mm	143mm	261 mm
BDD013	270 mm	192 mm	311 mm
BDD014	320 mm	239 mm	363 mm
BDD015	380 mm	285 mm	438 mm

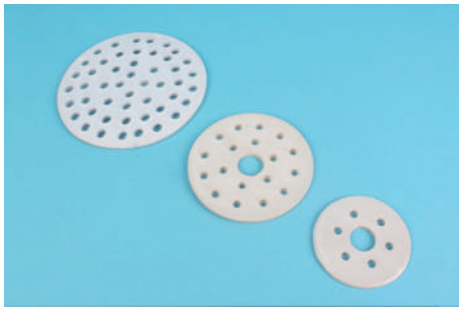
Desiccators, PP/PC

1| The materials to be dried are placed on a perforated disc made of PP. The lid made from PC is sealed with a neoprene gasket. Ideal for use in educational laboratories..

Code	Diameter	ø disc	Height
BDD500	171 mm	140 mm	206 mm
BDD501	230 mm	190 mm	260 mm
BDD502	273 mm	230 mm	311 mm

BDG - Disks

Porcelain disks



1| Glazed surface.

Code	Diameter	Hole Ø
BDG001	90 mm	10 mm
BDG002	140 mm	10 mm
BDG003	190 mm	10 mm
BDG004	220 mm	10 mm
BDG005	275 mm	10 mm

1|Glazed top surface.

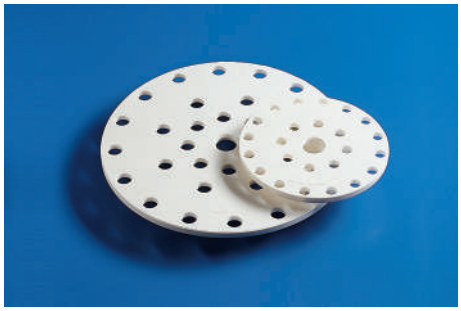
Code	Diameter	Hole Ø
BDG011	90 mm	5,5 mm
BDG012	140 mm	5,5 mm
BDG013	189 mm	5,5 mm
BDG014	241 mm	5,5 mm
BDG015	290 mm	5,5 mm

Porcelain disk, DIN 12911

Code	Diameter	Hole Ø
BDG006	90 mm	3,5 mm
BDG007	140 mm	3,5 mm
BDG008	190 mm	3,5 mm
BDG009	235 mm	3,5 mm
BDG010	280 mm	3,5 mm

BDG - Disks

Polypropylene disks



1| Made of polypropylene. Useful as support for cruciblees, Petri, etc. Use at room temperature. Not suitable for use with hot crucible

Code	Diameter	Diameter holes
BDG016	190 mm	7 mm
BDG017	141 mm	7 mm
BDG018	238 mm	7 mm

BDJ - Bell jars

With ground neck

Code	Base Ø	h	Ground joint
BDJ008	150 mm	200 mm	29/32
BDJ010	150 mm	250 mm	29/32
BDJ011	150 mm	300 mm	29/32
BDJ012	200 mm	300 mm	29/32
BDJ014*	300 mm	300 mm	34/35

** with key*

Knob lid

Code	Base Ø	h
BDJ001	150 mm	150 mm
BDJ002	150 mm	250 mm
BDJ003	150 mm	200 mm
BDJ004	200 mm	200 mm
BDJ005	200 mm	300 mm
BDJ006	300 mm	400 mm
BDJ007	257 mm	165 mm
BDJ019	180 mm	300 mm

BDL - Accessories

Knob lid for desiccator

Code	For desiccator	External Ø
BDL002	150 mm	210 mm
BDL003	200 mm	270 mm
BDL004	250 mm	305 mm
BDL005	300 mm	365 mm

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Code	d	h
BDL006	153 mm	78 mm
BDL007	215 mm	103 mm
BDL008	270 mm	108 mm
BDL009	320 mm	125 mm
BDL010	380 mm	150 mm

Stopcock for dessiccator

BORO 3.3

Code	Ground joint	For lid
BDL011	24/29	BDL015 / BDL016 / BDL017

Lid ground joint for dessiccator

1| With ground female, key not included.

Code	For desiccator	Ground joint
BDL014	150 mm	19/28
BDL015	200 mm	24/29
BDL016	250 mm	24/29
BDL017	300 mm	24/29

BDL - Accessories

Lid ground joint for dessiccator

BORO 3.3

Code	d	h	Ground joint
BDL018	153 mm	64 mm	24/29
BDL019	215 mm	89 mm	24/29
BDL020	270 mm	97 mm	24/29
BDL021	320 mm	111 mm	24/29
BDL022	380 mm	136 mm	24/29

Stopcock for desiccator

BORO 3.3

1| Ground joint male.

Code	Groound joint
BDL023	24/29

Straight stopcock with joint

BORO 3.3

DIMENSIONS

d:diameter

Code	d
BDL034	8 mm

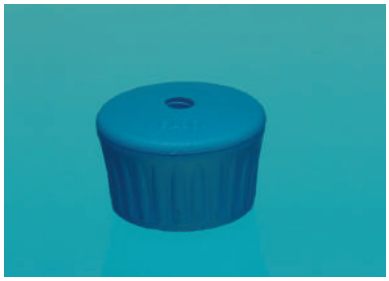
Stopcock for dessicator

BORO 3.3

Code	Ground joint
BDL035	24/29
BDL061	29/32
BDL062	34/35

BDL - Accessories

PP knob with hole

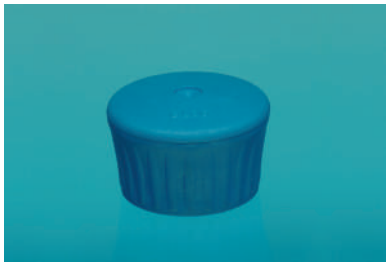


DIMENSIONS

d_1: stopcock Ø
d_2: hole Ø

Code	d_1	d_2
BDL028	52 mm	9 mm

PP knob with hole for desiccator stopcock



DIMENSIONS

d: diameter

Code	d
BDL046	52 mm

Vacuum retention valve and O-ring for desiccator

Kartell

Code	For
BDL024	Vacuum retention valve for BDB018, BDB017, BDB020
BDL025	O-rings for BDB018
BDL026	O-rings for BDB017
BDL027	O-rings for BDB019

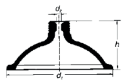
Lid for desiccator SJ 24/29

Code	For desiccator	d1	h
BDL036	100 mm	153 mm	83 mm
BDL037	150 mm	213 mm	95 mm
BDL038	200 mm	272 mm	123 mm
BDL039	250 mm	333 mm	139 mm
BDL040	300 mm	395 mm	140 mm

BDL - Accessories

Lid for desiccator straight stopcock

DIMENSIONS

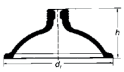


d_1: diameter base
d_2:diameter tubuladura
h: height

Code	For desiccator	d1	d2	h
BDL029	100 mm	153 mm	9 mm	84 mm
BDL030	150 mm	213 mm	9 mm	96 mm
BDL031	200 mm	272 mm	9 mm	124 mm
BDL032	250 mm	333 mm	9 mm	140 mm
BDL033	300 mm	395 mm	9 mm	141 mm

Lid for desiccator unbored

DIMENSIONS



d: base diameter
h: height

Code	For desiccator	d1	h
BDL041	100 mm	153 mm	84 mm
BDL042	150 mm	213 mm	96 mm
BDL043	200 mm	272 mm	124 mm
BDL044	250 mm	333 mm	140 mm
BDL045	300 mm	395 mm	141 mm

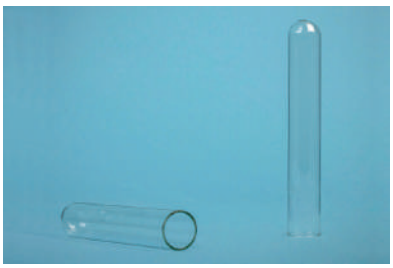
Bottom for desiccator

BORO
3.3

Code	Ø
BDL051	200 mm
BDL052	250 mm
BDL053	300 mm

BGB - Test tubes

Test tubes soda glass

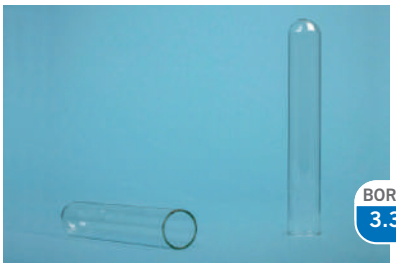


Dimensions

l: Length
d: diameter

Code	dxl	Cap.	Thickness	Pack
BGB001	10x75 mm	3 mL	0,5 mm	B/250 units
BGB003	12x100 mm	7 mL	0,8 mm	B/250 units
BGB029	15.30x100 mm	13 mL	0,8 mm	B/329 units
BGB030	15.30x160 mm	25 mL	0,55 mm	B/500 units
BGB031	16x160 mm	20 mL	0,8 mm	B/500 units
BGB032	17.25x180 mm	35 mL	0,55 mm	B/250 units
BGB033	17.25x180 mm	30 mL	0,85 mm	B/250 units
BGB034	19.25x200 mm	50 mL	0,55 mm	B/250 units
BGB035	19.25x200 mm	50 mL	0,85 mm	B/250 units

Test tube borosilicate glass

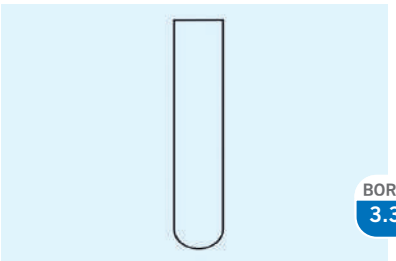


Dimensions

l: Length
d: diameter

Code	dxl	Cap.	Thickness	Pack
BGB005	10x100 mm	5 mL	0,8 mm	B/250 units
BGB063	12x120 mm	8 mL	1,2 mm	B/100 units
BGB064	14x140 mm	13 mL	1,2 mm	B/100 units
BGB006	16x160 mm	25 mL	1,0 mm	B/250 units
BGB007	16x100 mm	15 mL	0,8 mm	B/250 units
BGB008	18x180 mm	35 mL	1,5 mm	B/100 units
BGB009	20x200 mm	50 mL	1,5 mm	B/100 units
BGB010	22x220 mm	65 mL	1,5 mm	B/100 units
BGB011	25x200 mm	80 mL	1,5 mm	B/50 units
BGB071	22x200 mm	53 mL	1,5 mm	B/50 units
BGB072*	20x200 mm	50 mL	1,5 mm	B/100 units

** Marking Boro 3.3 on the tube*



Dimensions

l: Length
d: diameter

Code	dxl	Cap.	Thickness	Pack
BGB037	10x100 mm	6 mL	1,0 mm	B/100 units
BGB038	12x120 mm	11 mL	1,0 mm	B/100 units
BGB039	14x140 mm	17 mL	1.2 mm	B/100 units
BGB015	16x160 mm	25 mL	1,2 mm	B/100 units
BGB016	18x180 mm	35 mL	1,2 mm	B/100 units
BGB040	20x200 mm	50 mL	1,2 mm	B/100 units

BGB - Test tubes

Hemolysis glass tube

Dimensions

l: Length
d: diameter

Code	Cap.	Thickness	dxl	Pack
BGB060	6 mL	0,5 mm	12,25x75 mm	B/500 units
BGB061	5 mL	0,8 mm	12,25x75mm	B/500 units
BGB062	8 mL	0,5 mm	12,25x100 mm	B/500 units

Graduated test tube with rim

Dimensions

l: Length
d: diameter

Code	Capacity	dxl	Lot
BGB012	10 mL	13x150 mm	**B/50 units**
BGB013	20 mL	17x160 mm	**B/50 units**

Test tubes PP and PS

PP -CODE BGB025 and BGB026

PS - CODE BGB027 and BGB028

Dimensions

l: Length
d: diameter

Code	Cap.	Material	dxl	Lot
BGB025	5 mL	PP	12x75 mm	B/ 500 units
BGB027	5 mL	PS	12x75 mm	B/ 500 units
BGB026	15 mL	PP	16x100 mm	B/ 500 units
BGB028	15 mL	PS	16x100 mm	B/ 500 units

BGB - Test tubes

Test tubes PS, with lid PE

Kartell

1| Round bottom and support base.
2| Code BGB021 and BGB023 are supplied in individual sterilized packaging. IVD certificate

Code	Capacity	Diameter	Height	Pack
BGB020	12 mL	16 mm	102 mm	1500 pcs.
BGB021	12 mL	16 mm	102 mm	1500 pcs.
BGB022	30 mL	25 mm	92,4 mm	400 pcs.
BGB023	30 mL	25 mm	92,4 mm	400 pcs.

Test tubes, PTFE

Kartell

1| High chemical, mechanical and thermal resistance
2| Supports continuous temperatures up to 250°C and up to 300°C in short intervals..

Code	Width	Diameter interior	Diameter exterior	Height
BGB018	Conic	15 mm	18 mm	120 mm
BGB019	Round	15 mm	18 mm	100 mm

ENDO plasticware

1| Exceptional chemical, mechanical and heat resistance Cylindrical Shape

Code	Capacity	Dimensions (ø x L)
BGB073	5 mL	16x56 mm
BGB074	10 mL	16,5x103 mm
BGB075	25 mL	25x104 mm
BGB076	50 mL	28x121 mm

BGB - Test tubes

Sample tubes, PFA

VITLAB

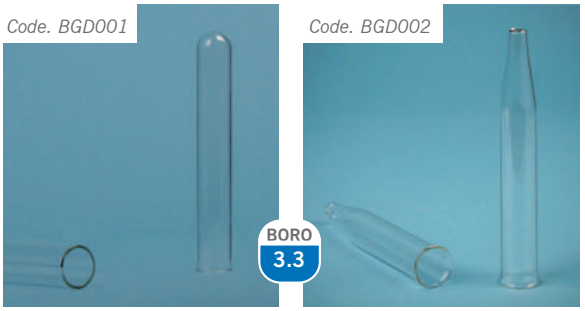
1| Sample tubes made from PFA for sample preparation and for use in autosampler racks.
2| Code BGB502 with ring mark and screw cap and code BGB503 without ring mark

Code	Volume	Ø mm	Height
BGB502	15 mL	22 mm	110 mm
BGB503	15 mL	22 mm	110 mm

BGD - Centrifuge tubes

Centrifuge cylindrical glass tubes

ENDO glassware



1| Non graduated, with rim. Capacity 12 mL.

Code	Bottom	dxl	Thickness	Lot
BGD001	Round	16x100 mm	1.2 mm	**100**
BGD002	Conical	16x110 mm	1.0 mm	**100**

ASTM glass

ENDO glassware

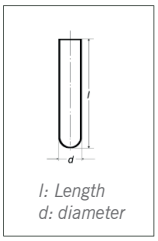
1| Graduated. Complies with ASTM D 4928, ASTM D 473, ASTM D 4807.
2| The cylindrical conical tube (code BGD003) is ideal for ASTM sedimentation / sediment analysis in oils and petroleum.
3| The pear centrifuge tube (code BGD004) is suitable for precipitate control. Ideal for the control of tartaric stability in wines.

Code	Capacity	Shape	Lot
BGD003	100 mL	Cylindrical	**2**
BGD004	100 mL	Pear	**2**

BGD - Centrifuge tubes

Glass test tubes

Dimensions



1| Made of ASTM E-438 Type-1 Class A glass. Walls are of uniform thickness with beading.

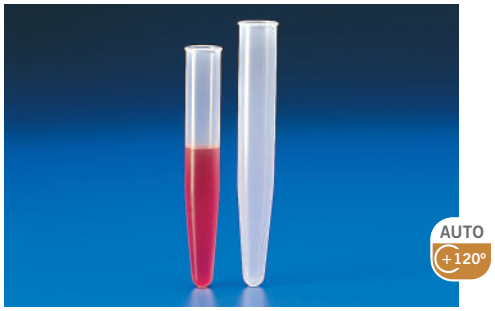
Code	Capacity	dxl	Lot
BGD005	5 mL	13x100 mm	B/100 units
BGD006	10 mL	15x110 mm	B/100 units
BGD007	15 mL	17x120 mm	B/100 units
BGD009	50 mL	30x125 mm	B/50 units

Centrifuge tubes, High Quality

1|DNAsa / RNAsa / Pyrogen / Pyrogen / Endotoxin free

Code	Cap.	Bottom	Sterile	Pack	Lot
BGD082	15 mL	Conical	No	B/ 50 units	**20**
BGD083	15 mL	Conical	No	Rack 25 units	**10**
BGD084	15 mL	Conical	Yes	B/ 25 units	**20**
BGD085	50 mL	Conical	No	B/ 25 units	**20**
BGD086	50 mL	Conical	No	Rack 25 units	**20**
BGD087	50 mL	Conical	Yes	B/ 25 units	**20**
BGD088	50 mL	Self-standing bottom	No	B/ 50 units	**30**
BGD089	50 mL	Self-standing bottom	Yes	B/ 25 units	**20**

Bottom conical PP



1| Up to 4000 RPM, high chemical and mechanical resistance.

Code	Capacity	DxL	Lot
BGD012	10 mL	16x108 mm	B/500 units
BGD013	15 mL	18x120 mm	B/500 units

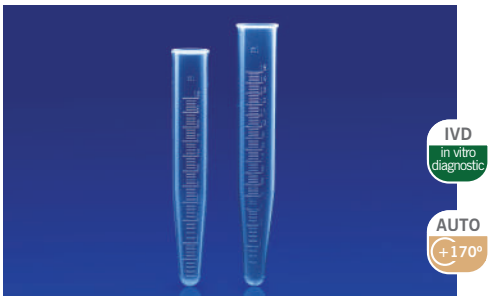
BGD - Centrifuge tubes

Cylindrical test tubes PP

1| Up to 4000 RPM, acid resistant.

Code	Capacity	DxL	Pack
BGD014	7 mL	12x100 mm	100
BGD015	16 mL	18x100 mm	500
BGD016	31 mL	24x95 mm	50
BGD017	48 mL	30x100 mm	25
BGD018	70 mL	35x100 mm	20
BGD019	110 mL	40x120 mm	25

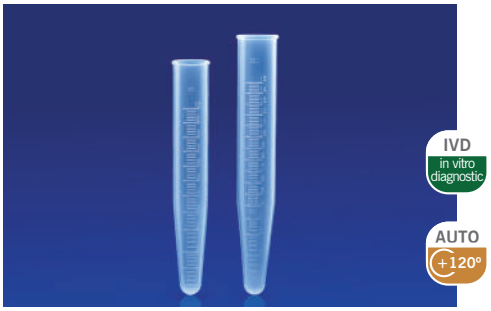
Conical centrifuge PMP



1| Up to 4000 RPM, high chemical resistance
2| Graduation 0,2 mL.

Code	Capacity	DxL	Units/Lot
BGD020	10 mL	16x107 mm	50
BGD021	15 mL	18x118 mm	50

Graduated conical test tube PP



1| Up to 4000 RPM, high chemical resistance. Graduation 0,2 mL.

Code	Capacity	DxL	Units/Lot
BGD022	10 mL	16x107 mm	100
BGD023	15 mL	18x118 mm	100

BGD - Centrifuge tubes

Graduated test tubes PP

Kartell

1| With PP screw cap, with totally watertight seal.
2| Red cap for the sterile version.

Code	Capacity	DxL	Pack
BGD024	15 mL	17x120 mm	150
BGD025	15 mL	17x120 mm	150
BGD039	15 mL	17x120 mm	700
BGD072	50 mL	30x115 mm	100
BGD026	50 mL	30x115 mm	100
BGD040	50 mL	30x115 mm	600
BGD027*	50 mL	30x115 mm	100
BGD028*	50 mL	30x115 mm	100
BGD041*	50 mL	30x115 mm	500

*self-standing

sterile sterile single pack

Graduated test tubes PP

Kartell

1| With screw cap and conical bottom, screen-printed graduation.
2| Apirogenic, endotoxin-free, autoclavable and CE marked according to directive 98/79/EC.
3| 15 mL RCF tubes of 6200 xg and 50 mL RCF tubes of 9400 xg.

Code	Capacity	DxL	Pack
BGD029	15 mL	17x121 mm	50
BGD030	15 mL	17x121 mm	50
BGD031	15 mL	17x121 mm	500
BGD032	15 mL	17x121 mm	Tray, 50
BGD033	15 mL	17x121 mm	Tray, 50
BGD034	50 mL	30x117 mm	25
BGD035	50 mL	30x117 mm	25
BGD036	50 mL	30x117 mm	400
BGD037	50 mL	30x117 mm	Tray, 25
BGD038	50 mL	30x117 mm	25

sterile sterile single pack

BGD - Centrifuge tubes

Bottom round, PS

Kartell

sterile
sterile single pack

1| Screw cap available.

Code	Cap.	DxL	Pack
BGD042	10 mL	16x100 mm	1000 units
BGD043	10 mL	16x100 mm	200 units
BGD044	10 mL	16x100 mm	750 units
BGD045	15 mL	16x120 mm	750 units
BGD046	15 mL	16x120 mm	700 units
BGD047	20 mL	16x120 mm	500 units
BGD048	20 mL	16x120 mm	500 units

Conical test tube PS

Kartell

Code	Width	Cap.	DxL	Pack
BGD049	conical	10 mL	16x105 mm	1000 units
BGD050	cylindrical	10 mL	16x100 mm	500 units
BGD052	cylindrical	5 mL	12x75 mm	1000 units
BGD051	cylindrical	5 mL	13x75 mm	1000 units
BGD057	cylindrical	15 mL	16x150 mm	850 units
BGD054	RIA	5 mL	11x70 mm	1000 units
BGD053	Clotometer	3 mL	11,5x56 mm	1000 units
BGD071**	Clotometer	3 mL	11,5x55 mm	1000units

Disposable, PP and PS

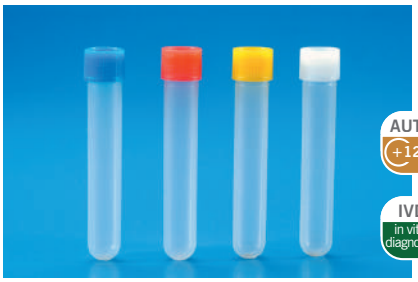
Kartell

Code	Bottom/material	Capacity	DxL	Pack
BGD055	Cylindrical PS	5 mL	12x87 mm	4000 units
BGD056	Cylindrical PP	5 mL	12x96 mm	4000 units
BGD058	Cylindrical PS	10 mL	16x99,3 mm	2000 units
BGD059	Cylindrical PP	10 mL	16x100 mm	2000 units
BGD060	Conical PS	10 mL	16x100 mm	2000 units
BGD061	Conical PP	10 mL	16x100 mm	2000 units

BGD - Centrifuge tubes

Screw cap PP

Kartell



Sterile

1| PP tube with PE screw cap. For use in centrifugation, FCR 4.000 xg. Capacity 15 mL.

Code	Colour	DxL	Pack
BGD062	Red	16x100 mm	B/1000 units
BGD063	White	16x100 mm	B/1000 units
BGD064	Blue	16x100 mm	B/1000 units
BGD065	Yellow	16x100 mm	B/1000 units
BGD066	Red	16x100 mm	B/100 units
BGD067	White	16x100 mm	B/100 units
BGD068	Blue	16x100 mm	B/100 units
BGD069	Yellow	16x100 mm	B/100 units

BGG - Culture tubes

Flat bottom, PP stopper

GLASSCO

1| Borosilicate glass. Screw cap with PTFE seal

Code	Capacity	DxL	Lot
BGG007	5 mL	18x45 mm	**100**
BGG008	15 mL	25X57 mm	**100**
BGG009	30 mL	25x95 mm	**100**
BGG010	40 mL	25x145 mm	**100**

ENDO glassware

1| Type of glass: Soda-lime glass of the third hydrolytic class.

Code	Capacity	DxL	Lot
BGG006*	22 mL	16x160 mm	**299**
BGG013	22 mL	16x160 mm	**299**
BGG015*	42 mL	19,5x200 mm	**215**
BGG016	42 mL	19,5x200 mm	**215**

**Aluminum cap*

BGG - Culture tubes

Bottom round, screw cap PP

GLASSCO

1| Borosilicate glass. Screw cap with PTFE seal

Code	Capacity	DxL
BGG001	5 mL	15x75 mm
BGG002	10 mL	15x125 mm
BGG003	15 mL	15x150 mm
BGG005	25 mL	18x150 mm
BGG022	300 mL	25x100 mm
BGG004	45 mL	25x150 mm
BGG012	60 mL	25x200 mm

** with aluminium cap*

Durham bell

ENDO glassware

Dimensions

l: Length
d: diameter

Code	DxL	Thickness	Units/Lot
BGG011	7x50 mm	0,5 mm	1000

BGJ - U tubes

U-shaped tubes, standard model

ENDO glassware

1| Borosilicate glass, rimmed.

Code	Dim. (Øxl)	Tube spacing
BGJ001	16x150 mm	50 mm
BGJ008	14x140 mm	60 mm
BGJ009	16x160 mm	66 mm
BGJ010	18x180 mm	66 mm
BGJ011	20x200 mm	66/72 mm
BGJ012	20x200 mm	75 mm

BGJ - U tubes

U-shaped tubes, standard model

1| Borosilicate glass, rimmed.

Code	Dim. (Øxl)	Tube spacing
BGJ003	10x100 mm	40 mm
BGJ006	20x200 mm	54 mm
BGJ007	24x200 mm	80 mm

BGL - Tube caps

Stopper PE for tubes

Code	For tubes of	Colour
BGL022	16 mm	Red
BGL023	12 mm	Green

1| PE fin plugs for single-use test tubes with a diameter of 11 to 13 mm or 15 to 17 mm. Precision-finned.

Code	For tubes of	Colour	Pack.	Lot
BGL012	15-17 mm	White	B/1000 units	14
BGL013	15-17 mm	Red	B/1000 units	14
BGL014	15-17 mm	Green	B/1000 units	14
BGL015	15-17 mm	Blue	B/1000 units	14
BGL016	15-17 mm	Yellow	B/1000 units	14
BGL017	11-13 mm	White	B/1000 units	25
BGL018	11-13 mm	Red	B/1000 units	25
BGL019	11-13 mm	Green	B/1000 units	25
BGL020	11-13 mm	Blue	B/1000 units	25
BGL021	11-13 mm	Yellow	B/1000 units	25

BGL - Tube caps

Test tube caps, PE

1| Suitable for both glass and plastic tubes

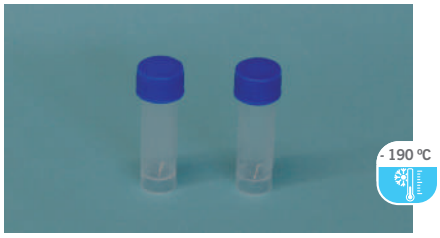
Code	Diameter	For tubes of	Units/Lot
BGL001	10,5 mm	12 mm	100
BGL002	14 mm	16 mm	100
BGL003	14,5 mm	16 mm	100
BGL009	15,5 mm	17 mm	100
BGL004	16 mm	18 mm	100
BGL005	22 mm	24 mm	100
BGL006	28 mm	30 mm	100
BGL007	33 mm	35 mm	100
BGL008	38 mm	40 mm	100

For disposable test tubes, PE

Code	Diameter	Units/Lot
BGL010	11 mm (RIA)	1000
BGL011	16 mm	1000

BGN - Microtubes

Criotubes, PP



1| Autoclavable non-sterile. Withstand temperatures down to -190 ºC, suitable for freezers, deep freezers or liquid nitrogen.

Code	Cap.	Ø	Height	Grad.	Pack
BGN001	2 mL	10 mm	45 mm	0,5 mL	B/500 units
BGN002	5 mL	15 mm	57 mm	1,0 mL	B/200 units

BGN - Microtubes

Cryotube with cap

1| The maximum liquid storage is 80% of the maximum scale. Temperature resistance range from -196ºC to +121ºC.
2| Free of DNase/RNase, endotoxins, and human DNA.

Code	Volume	Cap	Pack
BGN048	1 mL	External thread	B/100
BGN049	1 mL	Internal thread	B/100
BGN050	2 mL	External thread	B/100
BGN051	2 mL	Internal thread	B/100
BGN052	3,6 mL	External thread	B/100
BGN053	3,6 mL	Internal thread	B/100
BGN054	5 mL	External thread	B/100
BGN055	5 mL	Internal thread	B/100

PCR microtube PP

1| Bottom conical, with flat lid. Autoclavable, can be frozen at -20 ºC.

Code	Capacity	Pack
BGN003	0,2 mL	B/1000 units

PCR microtubes, High Quality

1| They are certified and biologically inert, completely free of DNAs, RNAs, endotoxins and pyrogens.

Code	Cap.	Bottom	Sterile	Pack
BGN026	0,2 mL	Conical	No	B/500 units

BGN - Microtubes

PCR microtubes, PP

1| Bottom conical, with flat lid. Sterilizable in autoclave, can be frozen at -20 ºC.

Code	Strip	Cap.	Pack
BGN006	8	0.2 mL	B/100 units
BGN007	12	0.2 mL	B/200 units

Micro Centrifuge Tube, High Quality

1| They are certified and biologically inert, completely free of DNAs, RNAs, endotoxins and pyrogens.

Code	Cap.	Bottom	Sterile	Pack
BGN027	1,5 mL	Conical	No	B/1000 units

Centrifuge microtube PP

1| Graduated, conical bottom and lid attached to the body.

Code	Capacity	Pack
BGN004	0.5 mL	B/1000 units
BGN005	1.5 mL	B/500 units
BGN025	2 mL	B/500 units

BGN - Microtubes

Microtest tubes PP and PE, white

Kartell

1| Can be used with centrifugation at a maximum RCF max. 11.000 xg.

Code	Cap.	Type	Pack	Lot
BGN008	1,5 mL	Eppendorf	B/1000 units	**10**
BGN009	0,5 mL	Vitraton	B/1000 units	**14**
BGN010*	0.5 mL	Beckman	B/1000 units	**18**

** without cap*

Microtubes PP and PE graduated

Kartell

1| Cobas type.

Code	Colour	Capacity	Pack	Lot
BGN011	Neutral	1.5 mL	B/1000 units	**10**
BGN012	Blue	1.5 mL	B/1000 units	**10**
BGN013	Yellow	1.5 mL	B/1000 units	**10**
BGN014	Green	1.5 mL	B/1000 units	**10**
BGN015	Pink	1.5 mL	B/1000 units	**10**

Microtubes PP and PE, Colours

Kartell

1| Can be used with centrifugation at a max. RCF 21.000 xg.
2| 1000 unit bag, type Eppendorf.
3| With cap.

Code	Colour	Capacity
BGN016	Neutral	1.5 mL
BGN017	Blue	1.5 mL
BGN018	Yellow	1.5 mL
BGN019	Green	1.5 mL
BGN020	Pink	1.5 mL

BGN - Microtubes

COBAS-BIO and COBAS-MIRA test tubes

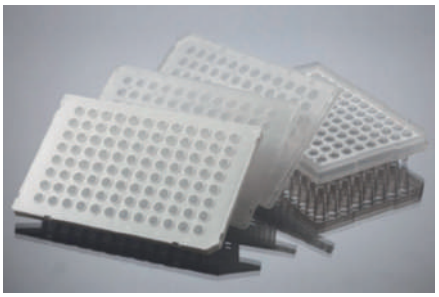
Kartell

1| Bag of 1000 units, type Cobas.

Code	Colour	Capacity
BGN021	Neutral	0,70 mL
BGN022	Blue	0,70 mL
BGN023	Yellow	0,70 mL
BGN024	Orange	0,70 mL

Low Profile PCR 96 Well Plate

ENDO plasticware



1| Certified free of DNase, RNAsa and hDNA. Free of PCR inhibitors and endotoxins. Maximum heat transfer for the reaction.

Code	Cap.	Pack	Sterile	Lot
BGN028	0,1 mL	10 units / 5 pack	No	**50**

96-well plate for PCR

ENDO plasticware

1| Made from high-quality white polypropylene to ensure minimal loss of reaction solution. Free from DNase, RNase, human DNA, pyrogens, and PCR inhibitors.

Code	Tubes	Colour	Pack
BGN039	0,1 mL	Transparent	10
BGN040	0,1 mL	White	10
BGN041	0,2 mL	Transparent	10
BGN043*	0,1 mL	White	15
BGN044	0,2 mL	Transparent	10
BGN045**	0,1 mL	Transparent	10
BGN046**	0,2 mL	Transparent	15

** For PCR on Roche equipment **For PCR on ABI equipment.*

BGQ - Recipients for samples

Sputum container, PP

Kartell

1| This PS sample container is fitted with a waterproof PE lid. It is the ideal container for the storage, collection and and transporting samples.

Code	Total height (w/lid)	Nominal capacity	Pack
BGQ038	31 mm	22 mL	B/1000 pcs
BGQ001	34,10 mm	30 mL	B/500 pcs

Feaces container, PS

Kartell

1| Made of polystyrene and spoon of polypropylene
2| Stopper and spoon in one piece

Code	Capacity	DxL	Units/Lot
BGQ002	15 mL	22,22x79,50 mm	1000
BGQ036	60 mL	41x55 mm	360
BGQ042	60 mL, sterile	41x55 mm	400

Sample vials, PE

Kartell

1| Cap attached to container. Product suitable for contact with food.

Code	Capacity	DxL	Units/Lot
BGQ003	1 mL	8x32 mm	500
BGQ004	2,5 mL	14x31,5 mm	100
BGQ005	8 mL	17,2x57,6 mm	100
BGQ006	7 mL	22,8x32,9 mm	100
BGQ007	20 mL	24,8x74,5 mm	100
BGQ008	35 mL	31x74,5 mm	50
BGQ009	25 mL	31,3x74,5 mm	50
BGQ010	5 mL	15x49 mm	100

BGQ - Recipients for samples

Screw cap container, LDPE

Kartell

1| Perfectly watertight closure. Excellent chemical resistance.
2| Product suitable for contact with food.

Code	Capacity	Diameter	Height
BGQ011	5 mL	21 mm	35,7 mm
BGQ012	10 mL	21 mm	58,4 mm
BGQ013	30 mL	35 mm	53 mm
BGQ014	60 mL	35 mm	94,2 mm
BGQ015	90 mL	54,5 mm	63,4 mm
BGQ016	180 mL	54,5 mm	109,6 mm

Scintillation vials

Kartell

Code	Capacity	Diameter	Height(w/cap)	Pack
BGQ017	20 mL, macro	26,5 mm	60,10 mm	1000 pcs.
BGQ018*	4 mL, mini	13,71 mm	53,60 mm	2000 pcs.

Coulter counter cup, PS

Kartell

1| Disposable PS containers for Toa® and Royco-Hycel® haemocytometers. PE cap.

Code	Diameter	Height	Pack
BGQ019	30 mm	56 mm	200 pcs.

BGQ - Recipients for samples

Stirrers for cuvettes

Kartell

Code	Lenght	Diameter	Pack
BGQ020	90 mm	3 mm	100 pcs.

Sample containers, PTFA

Kartell

1| With screw cap PFA

Code	Capacity	Height	Diameter	GL
BGQ022	30 mL	54 mm	38 mm	40
BGQ023	60 mL	90 mm	38 mm	40
BGQ024	90 mL	62 mm	54 mm	56
BGQ025	180 mL	112 mm	54 mm	56

Sample tubes, PTFA

Kartell

1| Graduated to 10ml, with screw cap (PFA) GL 25. For sample centrifugal sample preparation and for Autosample (Ø 25mm).

Code	Capacity	Height	Diameter
BGQ021	15 mL	110 mm	22 mm

BGQ - Recipients for samples

Technicon cups, Beckman, Konelab in PS

Kartell

1| Some codes have a plug with optional pressure closure.

Code	Capacity	Height x Diameter	Pack
BGQ026*	1,5 mL	22,6x13,8 mm	1000
BGQ027*	2 mL	24,9x13,7 mm	1000
BGQ028*	1,5 mL	24,7x13,9 mm	1000
BGQ029	4 mL	37,9x17,26 mm	1000

** with snap-on lid part no. BGQ033, optional*

Centrifichem cups, Technicon and Beckman in PS

Kartell

1| Some codes have a plug with optional pressure closure.

Code	Capacity	Height x Diameter	Pack
BGQ030*	0,25 mL	16,4x13,7 mm	1000
BGQ031*	0,50 mL	24,5x13,55 mm	1000
BGQ039	2,00 mL	38x16,75 mm	1000

** pressure cap code BGQ032 and BGQ033 optional*

Cross cut caps, PE

Kartell

1| CODE.: BGQ032: for packages BGQ030 and BGQ031
2| CODE.: BGQ033: for packages BGQ026, BGQ027, BGQ028, BGQ029, BGQ030, BGQ031.

Code	Description	Height x Diameter	Pack
BGQ032	Anti-evaporation	15,7x5,9 mm	1000
BGQ033	Pressurized	16x8,5 mm	1000

BGQ - Recipients for samples

PS container, snap-on

Kartell

Code	Capacity	Height	Diameter	Pack
BGQ034	30 mL	41 mm	34 mm	800 pcs.
BGQ035	35 mL	60 mm	34 mm	750 pcs.

Screw cap container, PS

Kartell

1| 60 mL volume with PE screw cap and 200 mL volume with PP screw cap.

Code	Capacity	Diameter	Pack
BGQ051	60 mL	39 mm	600
BGQ052	60 mL	39 mm	400
BGQ037	200 mL	66 mm	500
BGQ043	200 mL	66 mm	200

Container with screw cap, PP.

Kartell

1| The sterile and aseptic versions have red screw caps and satin writing surfaces. They are supplied in individual packaging.
2| The non-sterile version has a blue screw cap.

Code	Tapón	Capacity	Diameter	Pack
BGQ055	Blue	150 mL	62,5 mm	500 pcs.
BGQ056	Red	150 mL	62,5 mm	250 pcs.
BGQ057	Red	150 mL	62,5 mm	250 pcs.
BGQ058	Blue	200 mL	66 mm	600 pcs.
BGQ059	Red	200 mL	66 mm	200 pcs.

sterile *aseptic*

BGQ - Recipients for samples

PP screw cap container

Kartell

1| With watertight screw cap.

Code	Capacity	Diameter	Pack
BGQ044	30 mL	35 mm	600 pcs.
BGQ045	30 mL	35 mm	400 pcs.
BGQ046	60 mL	35 mm	600 pcs.
BGQ047	60 mL	35 mm	400 pcs.

sterile single pack

Urine container PP

Kartell

1| With watertight screw cap.

Code	Capacity	Diameter	Pack
BGQ048	60 mL	38 mm	500
BGQ049	60 mL	38 mm	400

sterile single pack

Screw cap bottle with spoon, PS

Kartell

1| With PE cap.

Code	Description	Capacity	Diameter	Pack
BGQ050	Screw cap with spoon	30 mL	25 mm	400
BGB024	Sterile with spoon	30 mL	25 mm	400
BGQ053	Screw cap with spoon	60 mL	39 mm	500
BGQ054	Sterile screw cap with spoon	60 mL	39 mm	400

BGQ - Recipients for samples

Sample container, with screw cap, PP

VITLAB

1| Suitable for contact with food; GL56 screw cap

Code	Capacity
BGQ505	90 mL

Rods for detach, clot

Kartell

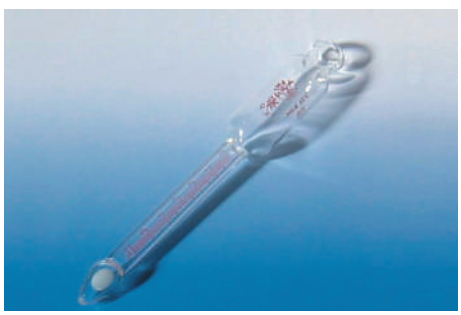
1| Disposable polyethylene rods for detaching and removing clots.

Code	Lenght	Units/Lot
BGQ041	156,5 mm	500

BGS - Butirometers

Butyrometer

SIMAX CZECH REPUBLIC

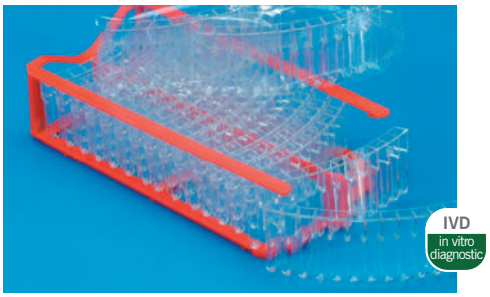


Code	Description	Accuracy
BGS001	Full cream milk	0-6%
BGS005	for cheese	0-40%

BGV - Others

Cobas segments in rack, PMMA

Kartell



1| High product reproducibility is ensured by manufacturing technology and rigorous quality control. Available in racks of 15 segments for autom.

Code	Description	Pack
BGV004	Pack of 15 pieces	450 pcs
BGV005	Pack individual	450 pcs

Olli cuvette, PS

Kartell

1| Olli-C-analyzer cuvettes packaged in 192-unit expanded polystyrene boxes.

Code	Capacity	DxL	Pack
BGV006	4 mL	11,9x34,5 mm	192 pcs

Cuvettes for fibrintimer PS

Kartell

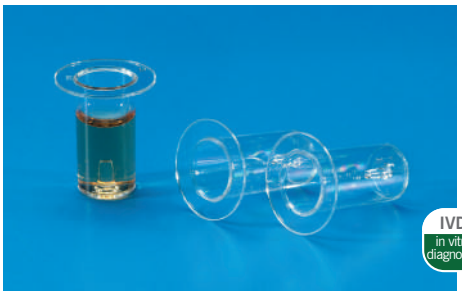
1| Supplied with 500 metal mixers.

Code	Capacity	DxL	Pack
BGV007	1,3 mL	11,9x34,5 mm	500

BGV - Others

Amelung cuvettes, PS

Kartell

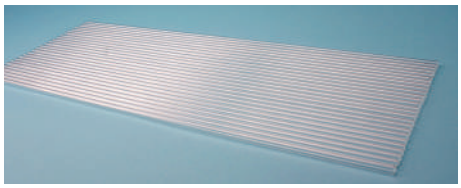


1| Supplied with 1,000 metal balls, part number BGV008 only.

Code	Capacity	DxL	Pack
BGV008	1 mL	11,25x22,8 mm	1000
BGV009	1 mL	11,25x22,8 mm	1000

Kg of borosilicate glass tube

ENDO glassware



Code	Diameter	Lenght
BGV001	7 mm	500 mm

Thiele tube

ENDO glassware

1| Borosilicate glass.

Code	Diameter	Lenght	Capacity
BGV002	24 mm	150 mm	40 mL

Nessler tube

ENDO glassware

1| Flat bottom and peak

Code	Diameter	Lenght	Capacity
BGV003	27 mm	210 mm	50/100 mL

BGV - Others

Glass tube cutter

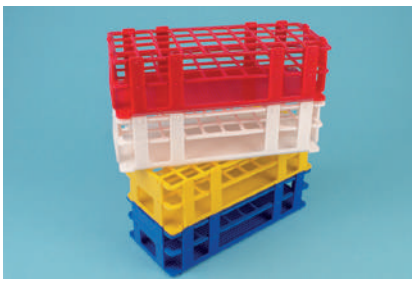
Nahita

Code	Description
BGV010	For pipes up to 30 mm in diameter

BJB - For tubes, plastic

Universal tube racks, PP

ENDO plasticware



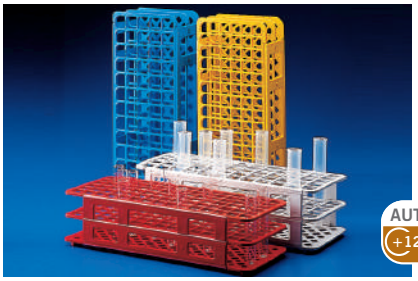
1| Stackable, alphanumerically labelled holes.

Code	Nº holes.	Ø	Alignment	Colour
BJB001	90	13 mm	6x15	White
BJB002	90	13 mm	6x15	Blue
BJB003	90	13 mm	6x15	Red
BJB004	90	13 mm	6x15	Yellow
BJB005	60	16 mm	5x12	White
BJB006	60	16 mm	5x12	Blue
BJB007	60	16 mm	5x12	Red
BJB008	60	16 mm	5x12	Yellow
BJB009	40	20 mm	4x10	White
BJB010	40	20 mm	4x10	Blue
BJB011	40	20 mm	4x10	Red
BJB012	40	20 mm	4x10	Yellow
BJB013	24	25 mm	3x8	White
BJB014	24	25 mm	3x8	Blue
BJB015	24	25 mm	3x8	Red
BJB016	24	25 mm	3x8	Yellow
BJB017	21	30 mm	3x7	White
BJB018	21	30 mm	3x7	Blue
BJB019	21	30 mm	3x7	Red
BJB020	21	30 mm	3x7	Yellow

BJB - For tubes, plastic

Universal test tube holder, PP

Kartell



Code	Nº holes	Alignment	Diameter	Colour	Lot
BJB050	90	6x15	13 mm	White	B/20 units
BJB051	90	6x15	13 mm	Blue	B/20 units
BJB052	90	6x15	13 mm	Yellow	B/20 units
BJB053	90	6x15	13 mm	Red	B/20 units
BJB054	60	5x12	16 mm	White	B/20 units
BJB055	60	5x12	16 mm	Blue	B/20 units
BJB056	60	5x12	16 mm	Yellow	B/20 units
BJB057	60	5x12	16 mm	Red	B/20 units
BJB058	40	4x10	20 mm	White	B/20 units
BJB059	40	4x10	20 mm	Blue	B/20 units
BJB060	40	4x10	20 mm	Yellow	B/20 units
BJB061	40	4x10	20 mm	Red	B/20 units
BJB062	40	4x10	25 mm	White	B/20 units
BJB063	40	4x10	25 mm	Blue	B/20 units
BJB064	40	4x10	25 mm	Yellow	B/20 units
BJB065	40	4x10	25 mm	Red	B/20 units
BJB066	24	3x8	30 mm	White	B/20 units
BJB067	24	3x8	30 mm	Blue	B/20 units
BJB068	24	3x8	30 mm	Yellow	B/20 units
BJB069	24	3x8	30 mm	Red	B/20 units

Multiposition rack

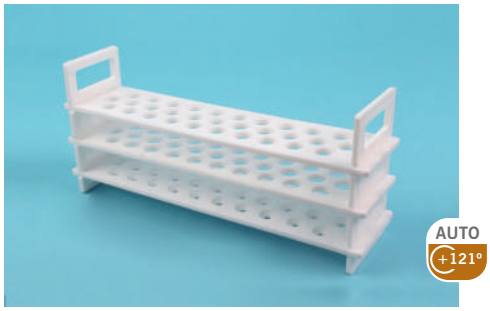
ENDO plasticware

1| They have side fittings to join several racks.

Code	Nº tubes	Tube diameter	Alignment
BJB026	32	11 mm	4x8
	12	16 mm	2x6
	4	29 mm	1x4

Test tube stand, PP

ENDO plasticware



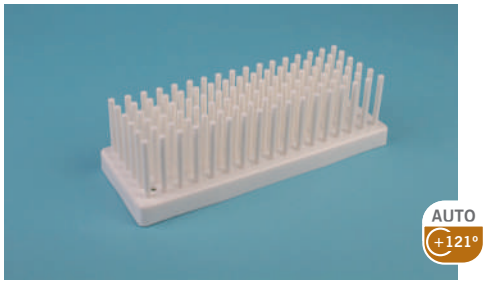
1| Removable

Code	Holes	Tube diameter	Dimensions (LxAxH)
BJB035	31	13 mm	270x65x120 mm

BJB - For tubes, plastic

Multi support rack

ENDO plasticware

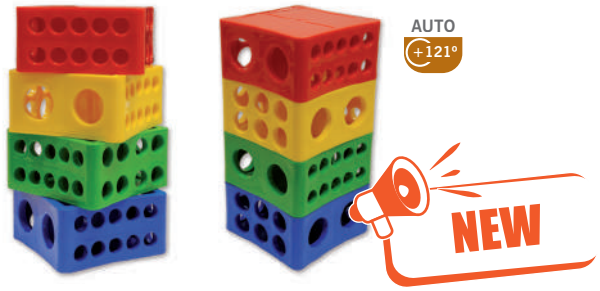


1| Autoclavable

Code	Holes	Tube diameter	Colour
BJB021	40	17-20 mm	Red
BJB022	50	14-17 mm	White
BJB023	80	10-13 mm	White

Rotatable multi rack

ENDO plasticware



1| Four rotating modules For tubes of different sizes:

Code	Nº tubes	Diameter hole	Alignment
BJB073	2 (50 mL)	29 mm	2x1
	6 (20 mL)	20,5 mm	6x2
	8 (15 mL)	16,2 mm	8x2
	10 (12 mL)	13,5 mm	10x2

Float rack for microtubes

ENDO plasticware

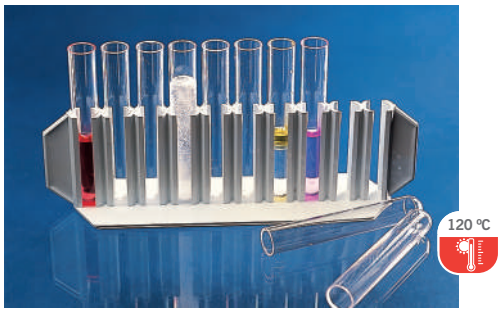
1| Suitable for use in ultrasonic baths. With alphanumeric graduation.

Code	Nº tubes	Ø hole	Alignment
BJB074	16 (1,5 mL)	12 mm	4x4

BJB - For tubes, plastic

Portatubes modular, PP

Kartell

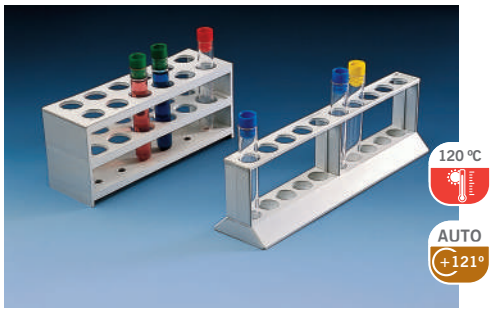


1| Can be used in water baths.

Code	Holes	Ø	Dim. (LxAxH)	Lot
BJB036	10	16 mm	88x220x65,6 mm	**4**
BJB037	9	18 mm	55x220x65,6 mm	**4**
BJB039	8	20 mm	54x220x65,5 mm	**4**

Test tube rack 2 levels

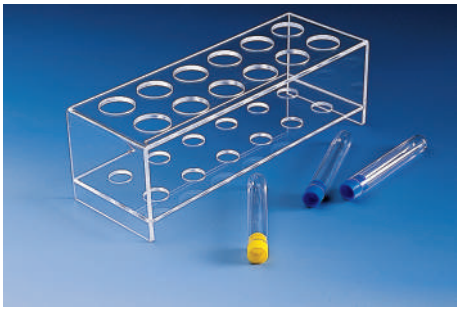
Kartell



Code	Nº holes	Diameter	Dimensions (LxAxH)	Lot
BJB040	10	18 mm	250x60x74 mm	**B/5 units**
BJB041	12	12 mm	190x60x80 mm	**B/10 units**
BJB042	12	20 mm	190x60x80 mm	**B/10 units**
BJB043	24	20 mm	375x65x95 mm	**B/5 units**

Tube racks 2 levels, holes PMMA (plexigas)

Kartell

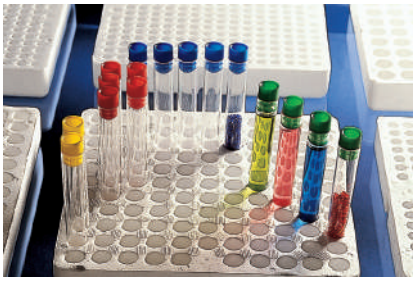


Code	Holes	Diameter	Dimensions (LxAxH)
BJB044	12	28 mm	90,2x255,4x81
BJB045	12	35 mm	97,5x289x81
BJB046	12	40 mm	110,5x316x81

BJB - For tubes, plastic

Tube trays

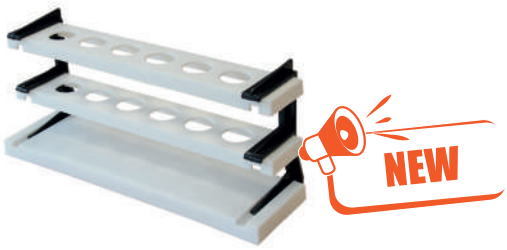
Kartell



Code	Holes	Diameter	Depth
BJB047	250	8,5 mm	15 mm
BJB048	119	14,5 mm	18 mm
BJB049	96	16,5 mm	22 mm

Nessler tube rack

ENDO plasticware

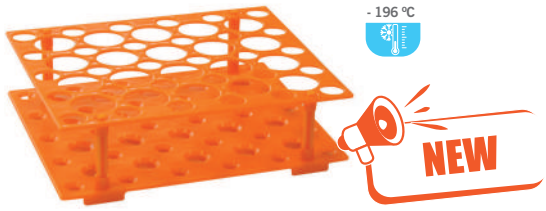


1| Made from a polypropylene blend. Supplied in 5 pieces for easy assembly. Flat bottom provides a reflective surface for tubes.

Code	For tubes of	Alignment
BJB076	50 mL	6x1
BJB075	100 mL	6x1

Double function rack

ENDO plasticware



1| Resistant to chemicals, alcohols and mild organic solvents. Stable temperature range from -196ºC to 121ºC. Removable lid includes area for writing inventory list.

Code	Capacity of tubes
BJB078	20x50 mL ; 30x15 mL

BJB - For tubes, plastic

Test tubes rack, PP

ENDO plasticware

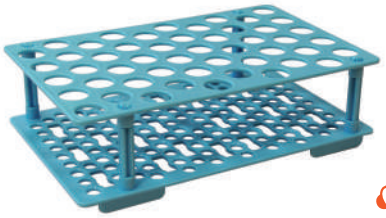
AUTO +121°

NEW

Code	Colour	no. tubes	ø tubes
BJB081	White	90	13 mm
BJB082	Blue	90	13 mm
BJB083	Red	90	13 mm
BJB084	Yellow	90	13 mm
BJB085	White	60	16 mm
BJB086	Blue	60	16 mm
BJB087	Red	60	16 mm
BJB088	Yellow	60	16 mm
BJB089	Whte	40	21 mm
BJB090	Blue	40	21 mm
BJB091	Red	40	21 mm
BJB092	Yellow	40	21 mm
BJB093	White	21	30 mm
BJB094	Blue	21	30 mm
BJB095	Red	21	30 mm
BJB096	Yellow	21	30 mm

Rack for tubes

ENDO plasticware



AUTO +121°

- 196 °C

NEW

1| High-quality PP material. Chemical resistant to alcohols and mild organic solvents.
2| Stable temperature range from -196ºC to 121ºC
3| Removable lid includes an area for writing the inventory list.

Code	Capacity	Ø tubes
BJB079	50 tubes of 15 mL	16 mm
BJB080	25 tubes of 50 mL	28 mm

BJB - For tubes, plastic

Test tube racks, Coloured, PP

VITLAB

Code	For Ø up to	Positions	Height	Colour
BJB500	13 mm	6x14	75 mm	White
BJB501	16 mm	5x11	75 mm	White
BJB502	18 mm	5x11	75 mm	White
BJB503	20 mm	4x10	75 mm	White
BJB505	30 mm	3x7	88 mm	White
BJB506	13 mm	6x14	75 mm	Blue
BJB507	16 mm	5x11	75 mm	Blue
BJB508	18 mm	5x11	75 mm	Blue
BJB509	20 mm	4x10	75 mm	Blue
BJB511	30 mm	3x7	88 mm	Blue
BJB512	13 mm	6x14	75 mm	Red
BJB513	16 mm	5x11	75 mm	Red
BJB514	20 mm	4x10	75 mm	Blue
BJB517	30 mm	3x7	88 mm	Red

BJD - For tubes, metal

Stainless steel rack

Mahita

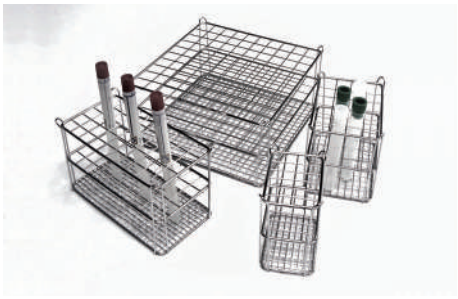
AUTO +121°

1| Very resistant, ideal for conical bottom tubes.

Code	Holes	Diameter	Alignment
BJD004	12	13 mm	3x4
BJD005	24	13 mm	3x8
BJD006	50	13 mm	5x10
BJD007	100	13 mm	10x10
BJD008	12	16 mm	2x6
BJD009	24	16 mm	3x8
BJD010	50	16 mm	5x10
BJD011	72	16 mm	6x12
BJD012	100	16 mm	10x10
BJD013	24	18 mm	3x8
BJD014	50	18 mm	5x10
BJD015	72	18 mm	6x12
BJD016	100	18 mm	10x10
BJD017	12	25 mm	2x6
BJD018	24	25 mm	3x8
BJD019	50	25 mm	5x10
BJD020	72	25 mm	6x12

BJD - For tubes, metal

Stainless steel rack



1| Made of AISI 304 steel, autoclavable. Reinforced and stackable corners.

Code	Holes	Diameter	Alignment
BJD022	24	10 mm	6x4
BJD023	50	12 mm	10x5
BJD025	24	14 mm	6x4
BJD026	24	16 mm	6x4
BJD027	50	16 mm	10x5
BJD028	24	18 mm	6x4
BJD029	50	18 mm	10x5
BJD030	24	20 mm	6x4
BJD031	50	20 mm	10x5
BJD032	24	22 mm	6x4
BJD033	24	30 mm	6x4
BJD034	24	18 mm	6x4
BJD035	24	30 mm	6x4
BJD036*	50	12 mm	10x5
BJD037*	24	12 mm	6x4

* for vials

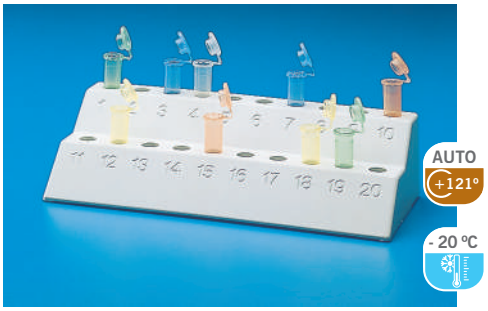
Test tube rack Z-shaped

1| In anodized aluminium.

Code	Holes	Diameter	Dimensions (LxAxH)
BJD001	50	12 mm	170x995x55 mm
BJD002	50	14,5 mm	200x110x55 mm
BJD003	50	17,0 mm	225x120x68 mm

BJL - For microtubes

Micro test tube rack



1| Alphanumerically marked positions.

Code	Nº holes	For tubes	Dim. (LxAxH)	Lot
BJL010	20	1.5 mL	90x210x49 mm	B/2 units
BJL009	Set of 6 clips for bracket			

BJL - For microtubes

Microtube rack with lid

1| Made from high-quality PP. Resistant to chemicals and mild organic solvents. Removable lid includes an area for writing the inventory list.
2| Stable temperature range from -196ºC to +121ºC.

Code	Microtubes	Capacity	Colour
BJL019	60	0,5/1,5 mL	Blue
BJL020	60	0,5/1,5 mL	Green
BJL021	60	0,5/1,5 mL	Orange
BJL022	60	0,5/1,5 mL	Red
BJL023	96	0,5/1,5 mL	Blue
BJL024	96	0,5/1,5 mL	Green
BJL025	96	0,5/1,5 mL	Orange
BJL026	96	0,5/1,5 mL	Red

Three-tier microtube rack

1| Made of polypropylene
2| Alphanumerical index on tube rows enables easy identification of tube positions

Code	Disposition
BJL017	Bottom tier carries 0.2ml microtubes (2x12 array) Middle tier carries 0.5ml microtubes (2x7 array) Upper tier carries 1.5ml microtubes (2x6 array)

Microtube rack with lid

1| Made from high-quality PP. Resistant to chemicals and mild organic solvents. Removable lid includes an area for writing the inventory list.
2| Stable temperature range from -196ºC to +121ºC.

Code	Alignment	Dimensions (LxAxH)
BJL018	12x8	120x82x30mm

BJL - For microtubes

Tube rack for micro Tube

Kartell

1| Positions marked alphanumerically. Autoclavable. Withstand temperatures down to -20 ºC.

Code	Dimensions (LxAxH)	Diameter	Colour
BJL011	109,5x263x45 mm	10,8 mm	White
BJL012	109,5x263x45 mm	10,8 mm	Blue
BJL013	109,5x263x45 mm	10,8 mm	Yellow
BJL014	109,5x263x45 mm	10,8 mm	Red

Stainless Steel rack

ENDO plasticware

1| Autoclavables. Reinforced and stackable corners

Code	Holes	For tubes of	Disposition
BJL015	25	1,5 mL	5x5
BJL016	50	1,5 mL	5x10

Microtube racks, Coloured, PP

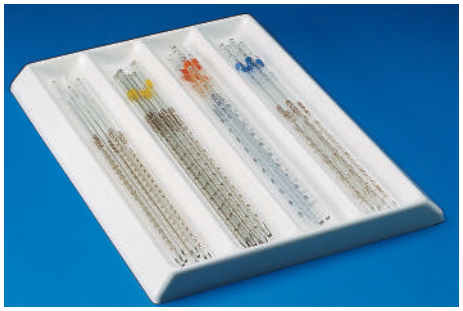
VITLAB

Code	For Ø up to	Positions	Height	Colour
BJL503	11 mm	8x14	38 mm	White
BJL504	13 mm	6x14	38 mm	White
BJL505	11 mm	8x14	38 mm	Blue
BJL506	13 mm	6x14	38 mm	Blue
BJL507	11 mm	8x14	38 mm	Red
BJL508	13 mm	6x14	38 mm	Red

BJN - For pipettes

Pipette tray

Kartell



1| To contain 30 pipettes, divided into 4 compartments of 1, 2, 5 and 10 mL

Code	Dimensions (LxAxH)
BJN001	300X426X30 mm

PP stand for pipettes and thermometers

ENDO plasticware

1| It has a capacity for 12 units up to 10mm in diameter. stability thanks to its triangular design.

Code	Dimensions (LxAxH)
BJN009	205x150x220 mm

Vertical pipette holder

Kartell

1| Holds up to 8 pipettes with a diameter of no more than 10 mm, plus 8 pipettes up to 15 mm in diameter. The base has small drainage holes.

Code	Dimensions (LxAxH)
BJN002	200x75x150 mm

BJN - For pipettes

Pipette stand, pp

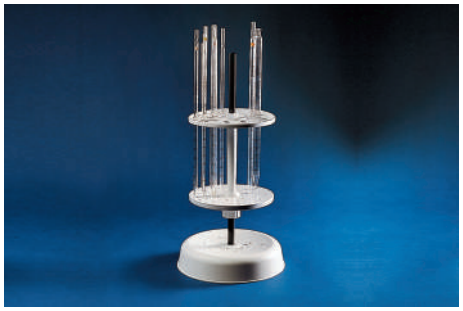
Kartell

1| Polypropylene surface.
2| For 94 pipettes with a maximum diameter of 14 mm.

Code	Diameter	Height
BJN003	230 mm	470 mm

PVC pipette stand

Kartell

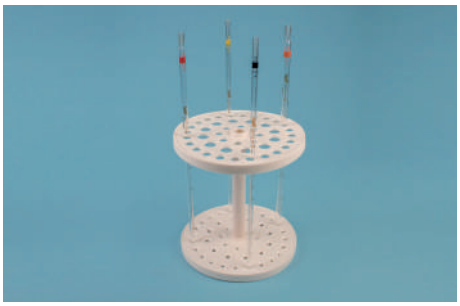


1| The base has small drainage holes. It can be coupled with bars of diameters between 8 and 14 mm
2| The stand has a Capacity of 18 small pipettes with a maximum diameter of 10 mm and 10 large pipettes with a maximum diameter of 15 mm.
3| The stand is height adjustable.

Code	Description	Diameter
BJN004	Round base with PVC rod	230 mm
BJN005	Round pipette stand	175 mm

Round pipette holder

ENDO plasticware



1| For 44 pipettes of different volumes

Code	Description	Capacity
BJN008	Round pipette holder	32 holes of 13 mm

BJN - For pipettes

Rotary stand for pipettes

ENDO plasticware

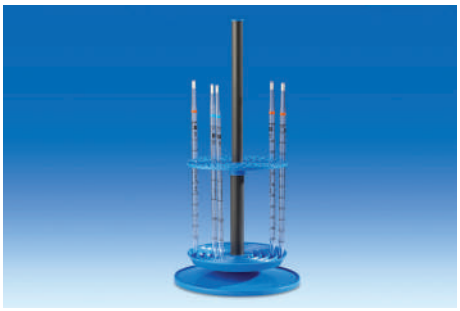
NEW

1| This stand holds up to 94 pipettes and rotates on a central vertical axis for convenient selection

Code	Capacity
BJN011	94 pipettes

Pipette stand, PP

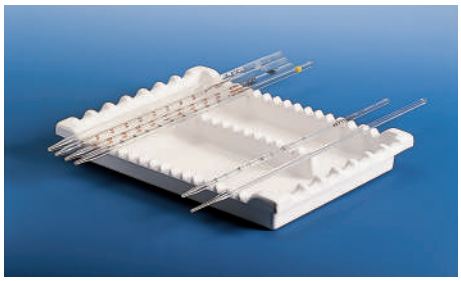
VITLAB



Code	Ø	Height
BJN500	230 mm	470 mm

Deep tray for pipettes

Kartell



Code	Dimensions (LxAxH)
BJN006	216x283x40 mm

Pipette tray

ENDO plasticware

NEW

1| Scalloped rims hold 16 small or 7 large pipettes Center support holds 12 short pipettes in a perpendicular direction

Code	Capacity
BJN012	94 pipettes

BJN - For pipettes

Pipette canister, PP

1| Cylindrical polypropylene box for the transport and location of glass pipettes.

Code	Dimensions
BJN010	36cm long x 7cm wide.

Serological pipettes holder, PMMA

1| It has 4 sloping shelves and a white top board.

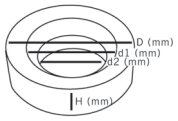
Code	Dimensions (LxAxH)	Dim. compartments (LxAxH)
BJN007	300x100x420 mm	290x85x89 mm

BJQ - For flasks

Cork support

DIMENSIONS

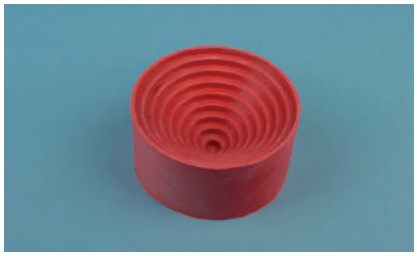
D: external diameter
d1:diameter
d2:diameter
H:height



Code	D	For flasks	d1	d2	H
BJQ001	80 mm	50-100 mL	50 mm	30 mm	30 mm
BJQ002	100 mm	250 mL	65 mm	45 mm	30 mm
BJQ003	120 mm	500 mL	90 mm	70 mm	30 mm
BJQ004	140 mm	1000 mL	110 mm	90 mm	30 mm
BJQ005	160 mm	2000 mL	125 mm	110 mm	30 mm

BJQ - For flasks

Rubber support



1| Can hold flasks up to 500 mL.

Code	Diameter	Height
BJQ006	90 mm	50 mm

Support of PP

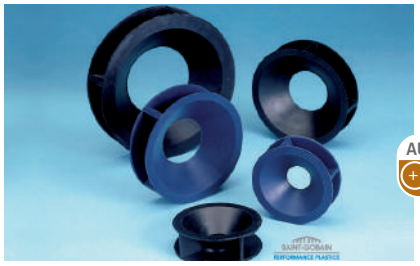
1| Can hold flasks up to 10 L.

Code	Diameter	Height
BJQ007	160 mm	50 mm

1| From very small flasks to 10 L.
2| The support admits hot flasks up to 100 ºC. Autoclavable

Code	Diameter	Height
BJQ011	160 mm	49 mm

Support ring Bibase



1| Made of silicone, bibase, for 2 different sizes of flasks. Temperature range -60ºC to +200ºC.

Code	For flasks	Diameter
BJQ008	50-500 mL	46/80 mm
BJQ009	500-2000 mL	80/1220 mm
BJQ010	2000-6000 mL	120/162 mm

BJS - For funnels

Holder for funnel, PP

ENDO plasticware

AUTO +121°

1| Single or double for funnels from 25 mm (with adapter included) to 170 mm
2| Can be mounted on 8 to 14 mm diameter finger bars.

Code	Places
BJS009	1 place
BJS008	2 place

Funnel holder, PP

Kartell

1| Single or double for funnels from 25 mm (with adapter included) to 170 mm
2| Can be mounted on 8 to 14 mm diameter finger bars.

Code	Places	For flasks
BJS001	1 place	25/170 mm
BJS002	2 place	25/170 mm

Open holder for funnel, PP

Kartell

1| Horseshoe shape designed for separating funnels.
2| Equipped with conical adapters for mounting on 8 to 14 mm bars.
3| Cannot be used with Funnels which diameter is under 75 mm.

Code	Places	For flasks
BJS003	1 Place	125/1000 mm

BJS - For funnels

Open holder for funnel, PP

ENDO plasticware

AUTO +121°

1| Includes 2 bushings for 12.7mm or 9.5mm diameter support rods
2| Capable of holding separation funnels with capacities from 250mL up to 1000mL

Code	Places
BJS007	1 Place

Metal Stand for 2 Funnels

Nahita

1| Made of metal, supplied with support

Code	Capacity
BJS005	2 funnels
BJS006	4 funnels

Filtering racks

VITLAB

1| Funnel holder with base and adjustable height, made from PP, support stand made from aluminium,

Code	Positions	Base plate
BJS500	2	250x140 mm
BJS501	4	450x140 mm

BMB - Plastic

Tapered stoppers

Kartell

1| According to DIN 12242. Body with 6 rings to guarantee a water-tight seal.

Code	Cono NS	Colour
BMB001	7,5/16	Violet
BMB002	10/19	Blue
BMB003	12/21	Green
BMB004	14/23	Brown
BMB005	19/26	Yellow
BMB006	24/29	Red
BMB007	29/32	Black
BMB008	34/35	White

Standard joint stoppers, PP

VITLAB

1| Stopper type A: With square-knob cap and red core. Stopper type B: With octagonal-knob cap and red core. Autoclavable at 121 °C (2 bar) according to DIN EN 285.

Code	Cono NS	Model
BMB500	10/19	A
BMB501	12/21	A
BMB502	14/23	A
BMB503	19/26	A
BMB504	24/29	A
BMB505	29/32	A
BMB506	34/35	B
BMB507	45/40	B
BMB508	60/46	B
BMB509	29/32	B

Connection stopper, PP

Kartell

1| Standard taper 1:10 suitable to guarantee a perfect watertightness on frosted surfaces.

Code	NS cone	Hose-adapters Ø	Length
BMB009	29/32	8 mm	20 mm

BMC - Glass

Glass stopper tip bottom

ENDO glassware

Code	Frosted	Shape
BMC003*	12/21	Hexagonal
BMC005	14/23	Hexagonal
BMC007	19/26	Hexagonal
BMC009	24/29	Hexagonal
BMC011	29/32	Hexagonal
BMC017	10/19	Hexagonal
BMC018	14/23	Hexagonal

** Glassco brand*

Octogonal clear glass stopper

SIMAX CZECH REPUBLIC

Code	Frosted	Shape
BMC027	29/32	Octogonal

BMD - Conical shape, rubber

Red rubber stopper

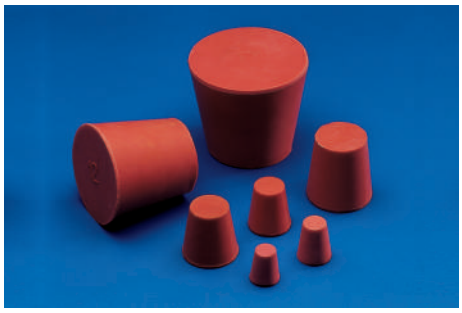
ENDO plasticware

Code	Inferior diameter	Superior diameter	Height
BMD116	6 mm	9,5 mm	17,4 mm
BMD117	9.5 mm	12 mm	15,6 mm
BMD118	11 mm	14,5 mm	20,5 mm
BMD119	13 mm	16 mm	20,5 mm
BMD120	14 mm	17,5 mm	20,3 mm
BMD121	15 mm	19,5 mm	22,5 mm
BMD122	17 mm	21 mm	25,25 mm
BMD123	19.5 mm	24 mm	26,25 mm
BMD124	21.5 mm	28 mm	31 mm
BMD125	27.5 mm	32 mm	32,35 mm
BMD126	29 mm	34 mm	34,4 mm
BMD127	31.5 mm	39,5 mm	43,6 mm
BMD128	36.5 mm	43,5 mm	44,6 mm
BMD129	43.5 mm	57,5 mm	46 mm
BMD130	45 mm	56 mm	42,2 mm

BMD - Conical shape, rubber

Red rubber stopper

Kartell



1| Made of red rubber. Autoclavable and drillable.

Code	Inferior diameter	Superior diameter	Height
BMD071	6 mm	9 mm	18 mm
BMD072	9 mm	12 mm	18 mm
BMD073	10 mm	13 mm	18 mm
BMD078	11 mm	15 mm	18 mm
BMD079	12 mm	16 mm	20 mm
BMD080	13 mm	18 mm	22 mm
BMD081	14 mm	20 mm	24 mm
BMD082	16 mm	23 mm	26 mm
BMD083	19 mm	26 mm	28 mm
BMD084	21 mm	30 mm	29 mm
BMD085	25 mm	32 mm	34 mm
BMD086	28 mm	37 mm	37 mm
BMD087	32 mm	42 mm	41 mm
BMD088	34 mm	45 mm	45 mm
BMD089	37 mm	48 mm	50 mm
BMD090	41 mm	54 mm	53 mm
BMD091	43 mm	60 mm	60 mm
BMD092	52 mm	65 mm	70 mm

Stopper Versilic high

SAINT-GOBAIN

Code	Type	Inferior ø	Superior ø	Height
BMF004	000	8,5 mm	10 mm	13 mm
BMF005	00	6 mm	10 mm	17,5 mm
BMF006	0	9 mm	12 mm	19 mm
BMF007	1F	10 mm	14 mm	19 mm
BMF010	2	14 mm	17 mm	21 mm
BMF012	3	16 mm	19 mm	23 mm
BMF013	4	18 mm	21 mm	25 mm
BMF014	5	19 mm	23 mm	28 mm
BMF015	6	22 mm	26 mm	30 mm
BMF017	8	26 mm	32 mm	34 mm
BMF019	10	31 mm	37 mm	41 mm
BMF022	13	40 mm	49 mm	49 mm
BMF025	16	54 mm	63 mm	61 mm
BMF026	17	61 mm	71 mm	65 mm
BMF027	18	69 mm	84 mm	65 mm

BMD - Conical shape, rubber

Stopper grey rubber

SAINT-GOBAIN

Code	Type	Inferior diameter	Superior diameter
BMD002	Nº000 00	5 mm	7 mm
BMD053*	Nº92D	79 mm	92 mm
BMD054*	Nº100D	87 mm	100 mm

** DIN 12871*

Stopper ISO, Versilic

SAINT-GOBAIN

1| Made of dark grey fluoroelastomer. Good chemical resistance. Max. working temperature +200ºC, peaks up to +300ºC

Code	Type	Diam.Inferior	Superior diameter
BMD056	Nº000 0000	3 mm	7 mm
BMD062	Nº2F	13 mm	16 mm

BMF - Conical shape, silicone

Sylicon conical stopper

Kartell

Code	Inferior ø	Superior ø	Height
BMF057	6 mm	9 mm	18 mm
BMF058	9 mm	12 mm	18 mm
BMF059	10 mm	13 mm	18 mm
BMF060	11 mm	14 mm	18 mm
BMF061	12 mm	16 mm	20 mm
BMF062	13 mm	75,5 mm	22 mm
BMF063	14 mm	20 mm	24 mm
BMF064	16 mm	23 mm	26 mm
BMF065	19 mm	26 mm	28 mm
BMF066	21 mm	30 mm	30 mm
BMF067	25 mm	32 mm	34 mm
BMF068	28 mm	37 mm	38 mm
BMF069	32 mm	42 mm	42 mm
BMF070	34 mm	45 mm	45 mm
BMF071	37 mm	48 mm	50 mm
BMF072	42 mm	54 mm	53 mm
BMF073	43 mm	60 mm	60 mm

BMF - Conical shape, silicone

Stopper Versilic DIN 12871, high

Code	Type	Inferior ø	Superior ø	Height
BMF032	8D	4 mm	8 mm	20 mm
BMF034	13D	8 mm	12 mm	20 mm
BMF039	24D	18 mm	24 mm	30 mm
BMF040	27D	21 mm	27 mm	30 mm
BMF041	29D	23 mm	29 mm	30 mm
BMF042	31D	26 mm	32 mm	30 mm
BMF043	34D	29 mm	35 mm	30 mm
BMF044	38D	31 mm	38 mm	35 mm
BMF047	49D	41 mm	49 mm	40 mm
BMF048	54D	47 mm	55 mm	40 mm
BMF049	60D	50,5 mm	59,5 mm	45 mm
BMF050	65D	56 mm	65 mm	45 mm
BMF051	70D	60 mm	70 mm	50 mm
BMF052	75D	64,5 mm	45,5 mm	55 mm
BMF053	83D	71 mm	83 mm	60 mm
BMF054	92D	79 mm	92 mm	65 mm
BMF055	100D	87 mm	100 mm	65 mm
BMF077	-	40 mm	49 mm	49 mm

BMH - Perforated, rubber

Red rubber stopper 1 hole

Code	Inferior ø	Superior ø	Height	Holes
BMH103	15 mm	19,5 mm	22,25 mm	1
BMH104	17 mm	21 mm	25,25 mm	1
BMH105	19,5 mm	24 mm	26,25 mm	1
BMH106	20,5 mm	28 mm	31,05 mm	1
BMH107	27,5 mm	32 mm	32,35 mm	1
BMH108	2 mm9	34 mm	34,4 mm	1
BMH109	31,5 mm	39,5 mm	43,6 mm	1
BMH110	36,5 mm	43,5 mm	44,6 mm	1
BMH111	43,5 mm	53,5 mm	43,08 mm	1
BMH112	45 mm	56 mm	42,2 mm	1
BMH113	14 mm	19 mm	21 mm	2
BMH114	17 mm	21 mm	25,25 mm	2
BMH115	19,5 mm	24 mm	26,25 mm	2
BMH116	20,5 mm	28 mm	31,05 mm	2
BMH117	26 mm	30 mm	33 mm	2
BMH118	29 mm	34 mm	34,4 mm	2
BMH119	31,5 mm	39,5 mm	43,6 mm	2
BMH120	36,5 mm	43,5 mm	44,6 mm	2
BMH121	43,5 mm	53,5 mm	43,08 mm	2
BMH122	45 mm	56 mm	42,2 mm	2

BMH - Perforated, rubber

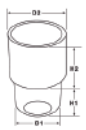
Conical stopper 1 hole

Code	Inferior ø	Superior ø	Height	Nº holes	Hole ø
BMH037	9 mm	12 mm	18 mm	1	3 mm
BMH038	10 mm	13 mm	18 mm	1	3 mm
BMH039	10 mm	13 mm	18 mm	1	3 mm
BMH040	12 mm	16 mm	20 mm	1	3 mm
BMH041	13 mm	18 mm	22 mm	1	3 mm
BMH042	14 mm	20 mm	24 mm	1	3 mm
BMH043	16 mm	23 mm	26 mm	1	6 mm
BMH044	19 mm	26 mm	28 mm	1	6 mm
BMH045	21 mm	30 mm	30 mm	1	6 mm
BMH046	25 mm	32 mm	34 mm	1	6 mm
BMH047	28 mm	37 mm	38 mm	1	6 mm
BMH048	32 mm	42 mm	42 mm	1	6 mm
BMH049	34 mm	45 mm	45 mm	1	6 mm
BMH050	37 mm	48 mm	50 mm	1	6 mm
BMH051	42 mm	54 mm	53 mm	1	6 mm
BMH052	43 mm	60 mm	60 mm	1	6 mm
BMH053	53 mm	65 mm	70 mm	1	6 mm
BMH054	13 mm	18 mm	22 mm	2	6 mm
BMH055	14 mm	20 mm	24 mm	2	6 mm
BMH056	16 mm	23 mm	26 mm	2	6 mm
BMH057	19 mm	26 mm	28 mm	2	6 mm
BMH058	21 mm	30 mm	30 mm	2	6 mm
BMH059	25 mm	32 mm	34 mm	2	6 mm
BMH060	28 mm	37 mm	38 mm	2	6 mm
BMH061	32 mm	42 mm	42 mm	2	6 mm
BMH062	34 mm	45 mm	45 mm	2	6 mm
BMH063	37 mm	48 mm	50 mm	2	6 mm
BMH064	42 mm	54 mm	53 mm	2	6 mm
BMH065	43 mm	60 mm	60 mm	2	6 mm
BMH066	53 mm	65 mm	70 mm	2	6 mm

BMJ - With folding skirt, rubber

Stopper rubber with folding skirt

Dimensions



d1: diameter
d2: diameter
H1: height of reversible part
H2: height inner part

1| They can be pierced. Temperature -20 ºC/100 ºC.
2| Ensure a good fit on glass, metal or plastic.

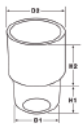
Code	Size	D1	D2	H1	H2
BMJ008	30,7 mm	28 mm	31,4 mm	22 mm	27,5 mm

BMK - With folding skirt, silicone

Stopper Versilic with folding skirt

SAINT-GOBAIN

Dimensions



AUTO +121°

d1: diámetro
d2: diámetro
H1: height of reversible part
H2: height inner part

1| Made of silicone with double sealing. They ensure a good fit on glass, metal or plastic. Biologically neutral, can be drilled
2| Working temperature -60ºC / +220ºC

Code	Size	D1	D2	H1	H2
BMK001	7,1 mm	4,5 mm	7,5 mm	8 mm	9 mm
BMK002	10,2 mm	9,8 mm	10,7 mm	9 mm	14 mm
BMK003	12,7 mm	12,3 mm	13,3 mm	10 mm	20 mm
BMK004	14,9 mm	14,2 mm	15,5 mm	11 mm	20 mm
BMK005	15,9 mm	14,5 mm	16,5 mm	11,5 mm	19,5 mm
BMK006	19,4 mm	15,8 mm	17,8 mm	13,5 mm	19 mm
BMK007	23,7 mm	21,2 mm	24,4 mm	18 mm	25 mm
BMK008	30,7 mm	28 mm	31,4 mm	22 mm	27,5 mm

Overturnable stoppers

Kartell

Code	D1	D2	H1	H2
BMK009	7 mm	7 mm	9 mm	8 mm
BMK010	10 mm	10 mm	14 mm	8 mm
BMK011	13 mm	13 mm	20 mm	10 mm
BMK012	15 mm	15 mm	20 mm	10 mm
BMK013	16 mm	16 mm	20 mm	11 mm
BMK014	20 mm	20 mm	18 mm	12 mm
BMK015	24 mm	24 mm	15 mm	17 mm
BMK016	31 mm	31 mm	28 mm	22 mm

BML - Borers

Cork borer sharpener

Nahita

1| With hardened steel blade and metal handle

Code	Lenght total
BML001	170 mm

BML - Borers

Cork borer set

Nahita

1| Made of nickel-plated brass, they have holes of different sizes.
2| Equipped with a solid rod to remove cork residues from the inside of the drill.

Code	Bores	Range
BML002	6	5/11 mm
BML003	12	5/19 mm
BML004	18	5/26,25 mm

Stem for cork borers

Nahita

1| Solid rod with rubber cap to remove cork residue from inside the drill

Code
BML005

Cork bore

Nahita

1| Made of nickel-plated brass.
2| Not Included, Solid rod to remove the cork that remains inside the drill (code BML005).

Code	nº	external Ø
BML006	1	5 mm
BML007	2	6,2 mm
BML008	3	7,5 mm
BML009	4	8,8 mm
BML010	5	10 mm
BML011	6	11,2 mm

BMP - PTFE

Stoppers PTFE

Kartell

1| Exceptional chemical and thermal resistance.
2| Product suitable for contact with food. Taper 1:10.

Code	Cono N/S	Inferior diameter
BMP001	14,5/23	12,2 mm
BMP002	19/26	16,4 mm
BMP003	24/29	21,1 mm
BMP004	29/32	25,8 mm

BMN - Caps, silicone

Protective cap Versilic

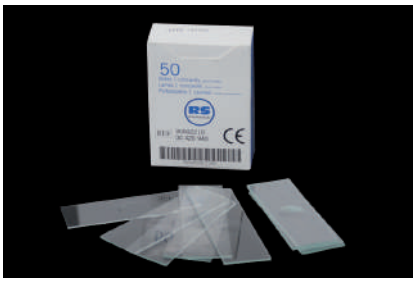
SAINT-GOBAIN

1| Biologically neutral and sterilizable. Thermal resistance of -60 ºC/ +200 ºC

Code	For tubes of diam.	Lot
BMN004	10 mm	**100**
BMN005	12 mm	**100**
BMN006	14 mm	**100**
BMN007	16 mm	**50**
BMN008	18 mm	**50**
BMN010	22 mm	**50**
BMN011	25 mm	**10**
BMN012	30 mm	**10**
BMN013	35 mm	**10**

BPB - Slides

RS FRANCE



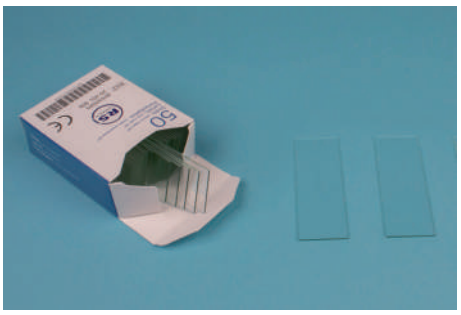
1| Made of soda glass. Standard size 76x26 mm. Box of 50 units
2| 90º frosted edges

Code	Cavity	Thickness (mm)
BPB001	1	1,2
BPB002	2	1,2

BPB - Slides

Microscope slides

RS FRANCE



1| Dimensions 76x26 mm. Thickness 1/1,2 mm. Box of 50 units.

Code	Edges	Angle
BPB016	Cut edge	90º
BPB017	Frosted	90º
BPB043	Frosted	45º

GHÄASEL

1| Hydrophilic surface. Suitable for human biology
2| Dimensions: 76x26 mm. Thickness of 1,1 mm. Box of 50 units.

Code	Angle	Edges
BPB033	90º	Cut edge
BPB034	90º	Frosted
BPB035	45º	Frosted

knittel GLÄSER

1| Extra-white soda-lime float glass. Washed and polished, ready to use.

Code	Dimensions	Edges	Angle	Pack
BPB505	76x26 mm	Cut	-	B/50 units
BPB506*	76x26 mm	Cut	-	B/50 units
BPB507	76x26 mm	Ground	45º	B/50 units
BPB508*	76x26 mm	Ground	45º	B/50 units
BPB509	76x26 mm	Ground	90º	B/50 units
BPB513	76x26 mm	Bevelled	-	B/50 units

banda mate

BPB - Slides

Frosted

1| Dimensions 76x26 mm. Thickness 1/1,2 mm. Box of 50 units.

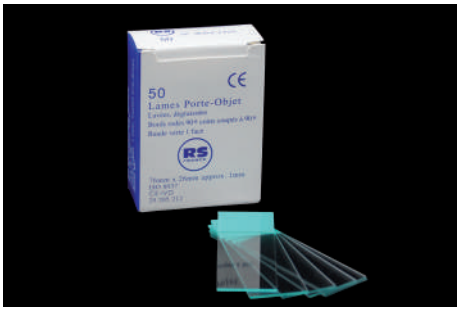
Code	Edges	Angle
BPB018	Cut edge	90º
BPB019	Frosted	90º
BPB020	Esm, bevels	45º
BPB044	Frosted	45º
BPB054	Frosted	45º

GHÄASEL

1| Hydrophilic surface. Suitable for human biology.
2| Dimensions: 76x26 mm. Thickness:1,1 mm. Box of 50 units.

Code	Angle	Edges
BPB036	90º	Cut edge
BPB037	90º	Frosted

With Coloured ground edge

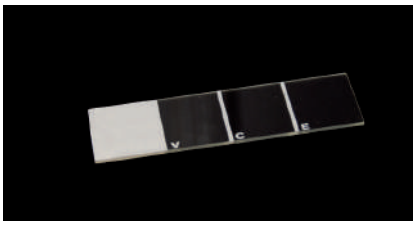


1| Frosted edges, box of 50 units.

Code	Angle	Frosted Colour
BPB021	45º	White
BPB022	45º	Orange
BPB023	45º	Yellow
BPB024	45º	Green
BPB025	45º	Pink
BPB026	45º	Blue
BPB027	90º	White
BPB028	90º	Orange
BPB029	90º	Yellow
BPB030	90º	Green
BPB031	90º	Pink
BPB032	90º	Blue

BPB - Slides

Slides 3 fields



1| 3 fields of 18 mm each identified as (VCE).
2| With 20 mm labeling strip. 90º frosted edge Box of 50 units

Code	Size
BPB005	76X26 mm

Slides special dimensions

Code	Dimensions	Thickness	Edges	Box of
BPB038	76x50 mm	1 mm	Cut edge	25 pcs.
BPB041	45x30 mm	2 mm	Cut edge	25 pcs.
BPB042	80x65 mm	1 mm	Cut edge	15 pcs.

BPD - Cover slides

Round cover glasses

1| Made of soda glass, transparent and without fingerprints.
2| Box of 100 units.

Code	Diameter	Thickness	Lot
BPD010	10 mm	0.13-0.16 mm	**10**
BPD011	12 mm	0.13-0.16 mm	**10**
BPD013	18 mm	0.13-0.16 mm	**10**
BPD014	20 mm	0.13-0.16 mm	**10**
BPD015	22 mm	0.13-0.16 mm	**10**
BPD030	14 mm	0.13-0.16 mm	**10**
BPD031	16 mm	0.13-0.16 mm	**10**
BPD032	24 mm	0.13-0.16 mm	**10**

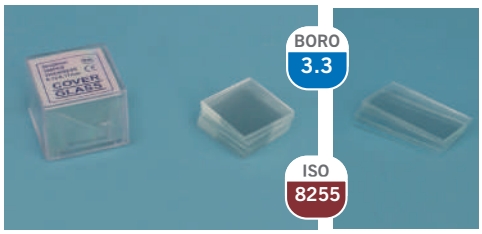
BPD - Cover slides

Square - Cover glasses

1| Made of soda glass. Box of 100 units.

Code	Dimensions	Thickness	Lot
BPD001	12x12 mm	0.13-0.16 mm	**10**
BPD002	18x18 mm	0.13-0.16 mm	**10**
BPD003	20x20 mm	0.13-0.16 mm	**10**
BPD004	22x22 mm	0.13-0.16 mm	**10**
BPD005	24x24 mm	0.13-0.16 mm	**10**
BPD006	24x32 mm	0.13-0.16 mm	**10**
BPD007	24x40 mm	0.13-0.16 mm	**5**
BPD008	24x50 mm	0.13-0.16 mm	**5**
BPD009	24x60 mm	0.13-0.16 mm	**5**

Square - Borosilicate cover glasses



1| Borosilicate glass. Box of 200 units.

Code	Shape	Dimensions	Thickness	Lot
BPD016	Square	18x18 mm	0,13-0,16 mm	**5**
BPD017	Square	20x20 mm	0,13-0,16 mm	**5**
BPD018	Square	22x22 mm	0,13-0,16 mm	**5**
BPD020	Square	24x24 mm	0,13-0,16 mm	**5**
BPD019	Rectangular	22x32 mm	0,13-0,17 mm	**10**
BPD021	Rectangular	24x32 mm	0,13-0,17 mm	**5**
BPD022	Rectangular	24x36 mm	0,13-0,17 mm	**5**
BPD023	Rectangular	24x40 mm	0,13-0,17 mm	**5**
BPD024	Rectangular	24x50 mm	0,13-0,17 mm	**5**
BPD025	Rectangular	24x60 mm	0,13-0,17 mm	**5**

Cover slips KNITTEL

1| Borosilicate glass.
2| Box of 100 units. Thickness.

Code	Dimensions	Thickness	Lot
BPD515	18x18 mm	0.13/0.17 mm	**10**
BPD516	20x20 mm	0.13/0.17 mm	**10**
BPD517	22x22 mm	0.13/0.17 mm	**10**
BPD518	24x24 mm	0.13/0.17 mm	**10**
BPD519	22x32 mm	0.13/0.17 mm	**10**
BPD520	24x32 mm	0.13/0.17 mm	**10**
BPD521	24x36 mm	0.13/0.17 mm	**10**
BPD522	24x40 mm	0.13/0.17 mm	**10**
BPD523	24x50 mm	0.13/0.17 mm	**10**
BPD524	24x60 mm	0.13/0.17 mm	**10**

BPD - Cover slides

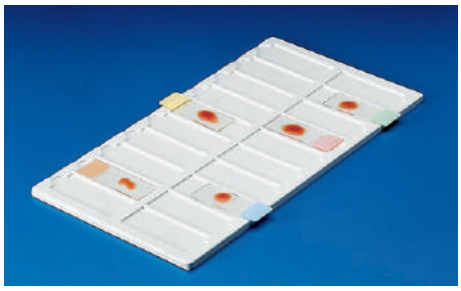
Knitell cover slide

1| Thickness 0.4 mm. Box of 100 units. Optically flat. CE marked.

Code	Dimensions	Thickness	Lot
BPD525	20x26 mm	0.4 mm	**10**
BPD526	22x22 mm	0.4 mm	**10**
BPD527	22x32 mm	0.4 mm	**10**

BPG - Slide storage

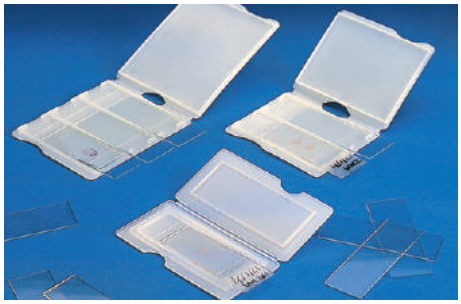
Slide tray



1| For standard slides 76x26 mm.

Code	Places	Dimensions (LxAxH)
BPG023	20 places	190x340x8 mm
BPG024	40 places	190x660x8 mm

Slide mailer, PE



1| Each tray has its own grooved housing, especially indicated for cytological and gynecological samples.

Code	Places	Dimensions (LxAxH)
BPG028	1 place	98,8x50,6x6,4 mm
BPG029	3 places	70x84x6 mm
BPG030	2 places	84x97x6 mm

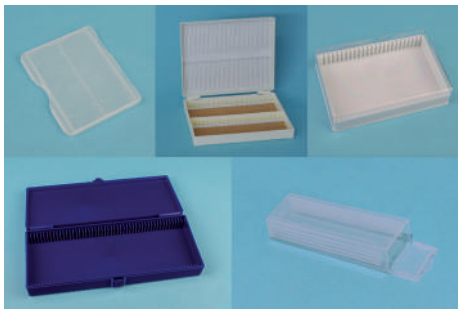
BPG - Slide storage

Cardboard tray

1| For standard slides 76x26 mm
2| With finger slot for easy removal of slides.

Code	Slides	Description	Dimensions
BPG001	2	With lid	90x70x5 mm
BPG002	3	With lid	82x28x17 mm
BPG003	4	With lid	150x110x7 mm
BPG004	10	With numered lid	400x100x7 mm
BPG005	20	With numered lid	400x200x7 mm
BPG006	20	Without numered lid	400x200x4 mm

Plastic box, plain

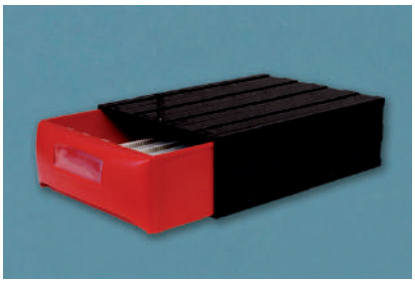


1| For standard slides 76x26 mm.

Code	Nº slides	Description	Dimensions
BPG007	2	Hinged opening	90x70x5 mm
BPG008	5	Hinged opening	82x28x17 mm
BPG009	25	2 pieces	120x80x30 mm
BPG039	25	-	-
BPG010	50	Hinged opening*	210x83x30 mm
BPG011	100	Hinged opening*	210x163x30 mm

** numered*

Storage box for slides

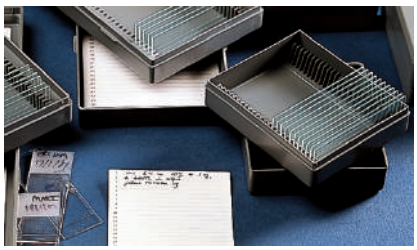


1| Made of plastic, stackable. Includes 6 holders for 75 slides (Total capacity 450 slides).

Code	Description
BPG018	Stand for 75 slides

BPG - Slide storage

Micro slide boxes



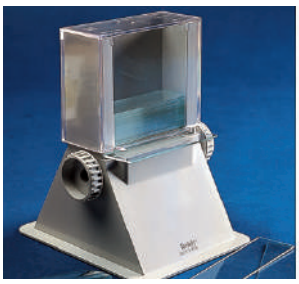
1| Stackable, for 76x26 mm slides.

Code	Places	Dimensions (LxAxH)
BPG019	25 places	98x83x38 mm
BPG020	50 places	230x97x35 mm
BPG021	100 places	230x180x35 mm

Automatic slide dispenser

1| Made from ABS plastic to ensure clean and fingerprint-free slides.
2| Capacity for 80 standard-size slides: 76x26 mm.

Code	Dimensions
BPG012	12x10x16,5 cm



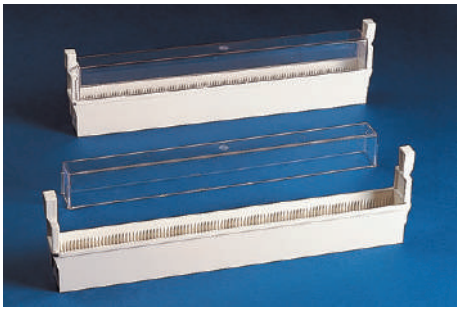
1| 50 slides of 76x26 mm can be placed. The cavities are individually numbered and are supplied with a card to classify the slides.

Code	Dimensions
BPG022	00x120x140 mm

BPG - Slide storage

Slide support and lid

Kartell



1| Each unit supports 100 standard 76x26 mm slides.
2| Can be stored in cabinets code BPG031

Code	Places	Dimensions (LxAxH)
BPG025	Lid	360x38x100 mm
BPG026	Support	345x35x40 mm

Slide mailer, PP

Kartell

1| For shipping or storing 5 to 10 samples.
2| Thick walls, highly resistant.

Code	Diameter	Length	Lot
BPG027	40 mm	90 mm	**10**

Slide storing system

Kartell

1| They are made of PMMA and impact resistant steel.
2| Each drawer can contain up to 13 slides (code BPG026) together with its transparent covers (code BPG025), to be ordered separately.
3| Each slide holder BPG026 can contain 100 slides. The complete storage system can contain up to 5,200 slides
4| The mobile version could be transformed into a fixed version and vice versa, using the kit of four fixed feet, or the four-wheeled kit. (see table of accessories)

Code	Castors	Dimensions (LxAxH)
BPG035	Yes	490x475x780 mm
BPG036	No	490x475x700 mm

BPG - Slide storage

Accessories for slide storing system

Kartell

Code	Description
BPG037	Kit of four swivel caster for slide storing system
BPG038	Kit of four feet for slide storing system

BPJ - Embedding

Embedding cassettes with lid

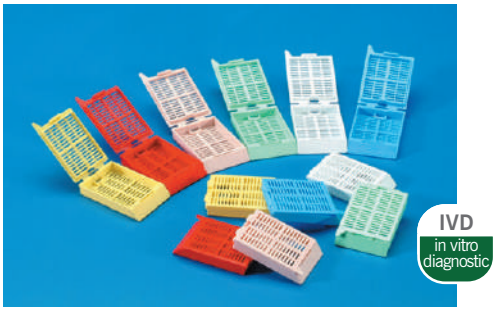
ENDO plasticware

1| Made of polyoxymethylene (POM), totally resistant to organic solvents.
2| Large labeling surfaces, inclined at 45°.

Code	Colour	Diameter slots	Pack
BPJ001	White	1x5 mm	250

Embedding cassettes with lid

Kartell



Code	Colour	Dimensions	Pack
BPJ029	White	40x28x6,8 mm	500 pcs
BPJ030	Blue	40x28x6,8 mm	500 pcs
BPJ031	Yellow	40x28x6,8 mm	500 pcs
BPJ032	Green	40x28x6,8 mm	500 pcs
BPJ033	Pink	40x28x6,8 mm	500 pcs

BPJ - Embedding

Biopsy cassettes with lid

ENDO plasticware

1| Made of polyoxymethylene (POM), totally resistant to organic solvents.
2| Large labeling surfaces, inclined at 45º.

Code	Colour	Diameter of perforations	Pack
BPJ006	White	1x1 mm	250

Embedding cassettes, without lid

ENDO plasticware

1| Made of polyoxymethylene (POM), totally resistant to organic solvents.
2| Large labeling surfaces, inclined at 45º.

Code	Colour	Diameter slots	Pack
BPJ011	White	2 mm	500

Embedding cassettes MEGA type

Kartell

Code	Colour	Dimensions	Pack
BPJ034	White	40x28x13,6 mm	100
BPJ035	Blue	40x28x13,6 mm	100
BPJ036	Yellow	40x28x13,6 mm	100
BPJ037	Green	40x28x13,6 mm	100
BPJ038	Pink	40x28x13,6 mm	100

BPJ - Embedding

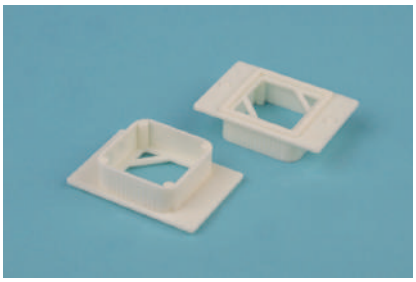
Sponges for histological cassettes

Kartell

Code	Colour	Dimensions	Pack
BPJ021	Blue	32x26x2.5 mm	500 pcs
BPJ044	White	32x26x2.5 mm	1000 pcs

Embedding ring

ENDO plasticware



1| In high quality ABS. With labeling surface.

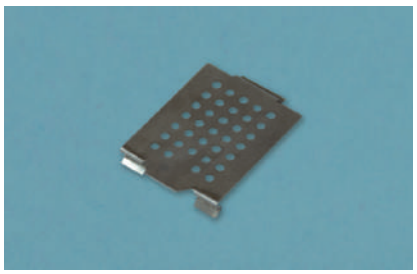
Code	Colour	Ring diameter	Dim. base	Pack
BPJ016	White	25X25 mm	40X28 mm	500

Kartell

Code	Colour	Dimensions	Pack
BPJ024	White	28x40x11 mm	500 pcs
BPJ025	Blue	28x40x11 mm	500 pcs
BPJ026	Yellow	28x40x11 mm	500 pcs
BPJ027	Green	28x40x11 mm	500 pcs
BPJ028	Pink	28x40x11 mm	500 pcs

Stainless lid for casetes

Nahita



Code	Description
BPJ039	Stainless steel lid for cassettes

BPJ - Embedding

Base mould

1| In stainless steel. Compatible with inclusion rings and cassettes.

Code	Dimensions
BPJ040	7x7x6 mm
BPJ041	15x15x9 mm
BPJ042	24x24x9 mm
BPJ043	30x24x6 mm

1| In stainless steel. In bags of 10 units.

Code	Model	Internal dim.
BPJ022	Standard	23x26 mm
BPJ023	For biopsy	7x7 mm

BPL - Staining

Hellendahl staining jar

1| Manufactured in pressed glass, of great resistance. Glass lid. Capacity 8 slides in vertical.

Code	Description	For slides
BPL001	Jar	76x26mm

BPL - Staining

Staining jar

1| With 8 spaces or 16 coupled. Has cover in PMP.

Code	Dimensions	For slides
BPL022	58x53,5x86 mm	76x26 mm

Schiefferdecker staining jar

1| Manufactured in pressed glass, of great resistance. Glass lid.
2| Capacity 10 slides in horizontal.

Code	Description	For slides
BPL003	Jar	76x26mm

1| With 10 spaces or 20 coupled. Has cover in PMP.

Code	Dimensions	For slides
BPL019	76x65x45 mm	76x26 mm

PMP staining jar

1| For use with the CODE article. BPL021.
2| It has two lids; one to close it completely and the other with a special opening for inserting the basket during the Colouring process..

Code	Dimensions (LxAxH)
BPL020	4x95x63 mm

BPL - Staining

Complete staining jar

1| Capacity 10 slides in horizontal, 20 slides back to back.

Code	Description	External dimensions	Internal dimensions
BPL010	Complete jar	85x70x105 mm	75x60x95 mm
BPL007	Jar	85x70x105 mm	75x60x95 mm
BPL008	Tray	68x45x90	-
BPL009	Handle	-	-

Staining jar, PP

1| Supplied with two adjustable lids, one blind and one with a window for the basket handles. For up to 20 slides

Code	Dimensions (LxAxH)
BPL049	100x80x65 mm

Staining rack PP

1| For use with article. BPL020. With handle for 20 samples.

Code	Dimensions	For slides
BPL021	695x86x21	76x26 mm

1| With handle for 20 samples.

Code	Dimensions	For slides
BPL048	87x69x150mm	75x25mm, 75x38mm, 75x51mm

BPL - Staining

Staining rack, SS304

1| For manual staining of up to 20 slides.

Code	Dimensions	For slides
BPL047	695x86x21	76x26 mm

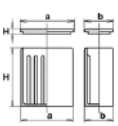
Coplin staining jar, glass

1|With 10 spaces or 20 coupled. With glass lid.

Code	Description	For slides
BPL005	Cubeta	76x26mm

Vertical staining jar

DIMENSIONS



a: base
b: width
H: height

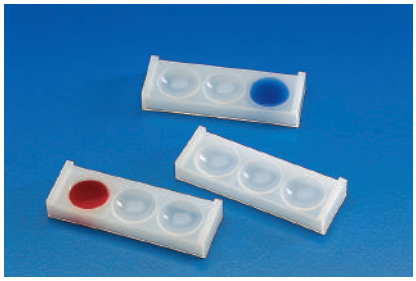
1| Porcelain cover and lid.

Code	a	b	H
BPL018	70 mm	40 mm	86 mm

BPL - Staining

3 cell Colourimetric tray, PE

Kartell



Code	Diameter	Dimensions	Depth	Lot
BPL023	21 mm	28x58 cm	7 mm	**10**

8 cell tray, PS

Kartell

Code	Diameter	Dimensions	Depth	Lot
BPL024	15 mm	95x57 cm	2 mm	**10**

Porcelain spot plate

Nahita

1| High resistance to acids, bases and thermal shock.
2| Enameled surface and sides, wells of approximately 20 mm Ø and 5 mm deep.

Code	Nº cavities	Long	Width
BPL014	6	85 mm	54 mm
BPL015	12	115 mm	90 mm

1| It shows great resistance to acids, bases and thermal shock

Code	Cavities	Width	Long	Diameter
BPL016	6	81 mm	112 mm	25 mm
BPL017	12	91 mm	115 mm	17 mm

BPL - Staining

BORREL staining jar

ENDO glassware

Code	Diameter	Height
BPL029	38 mm	85 mm
BPL035*	38 mm	85 mm
BPL030	40 mm	80 mm

**Without lid*

Prism for BORREL staining jar

ENDO glassware

Code	Description
BPL032	Prism for staining and microscopy

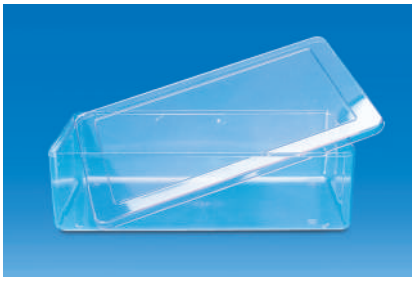
Lid for LAVERAN staining jar

SIMAX CZECH REPUBLIC

Code	Description
BPL034	Lid for LAVERAN staining jar

Multi-purpose container, SAN

VITLAB

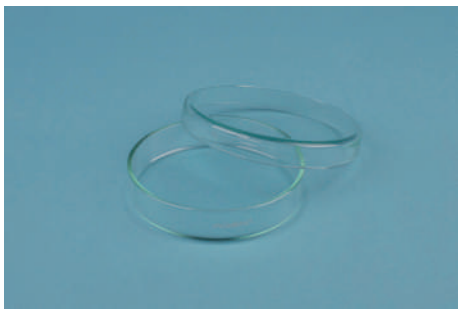


Code	Volume	Length	Width	Height
BPL500	4 L	340 mm	230 mm	94 mm

BRB - Petri dishes

Petri dish

ANUMBRA®

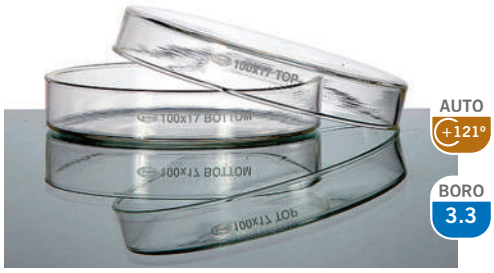


1| Made of soda-lime glass. Bottom and cover flat inside and outside with high transparency.

Code	Diameter	Height
BRB001	40 mm	12 mm
BRB002	60 mm	12 mm
BRB003	80 mm	15 mm
BRB004	100 mm	18 mm
BRB005	120 mm	20 mm
BRB006	150 mm	25 mm
BRB027	50 mm	12 mm
BRB028	90 mm	15 mm
BRB029	100 mm	20 mm
BRB030	200 mm	30 mm
BRB037	60 mm	15 mm
BRB042	80 mm	15 mm

Petri dish

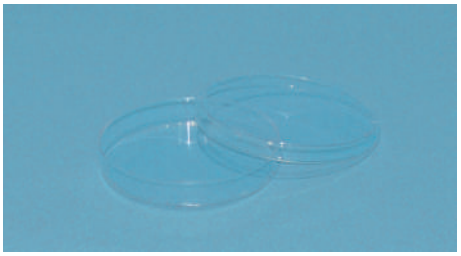
GLASSCO



Code	Diameter	Height
BRB007	50 mm	17 mm
BRB008	80 mm	17 mm
BRB009	100 mm	17 mm
BRB010	150 mm	20 mm
BRB011	200 mm	20 mm

Petri Dish Aseptic, PS

ENDO plasticware



1| Made of polystyrene Bevelled edge of cover for better sliding
2| Aseptic and ventilated.

Code	Ø x Height	Box of
BRB040	90 x 16 mm	500 units
BRB043	90 x 14 mm	575 units
BRB044	60 x 14 mm	1200 units

BRB - Petri dishes

Petri dishes, aseptic, PS

Kartell

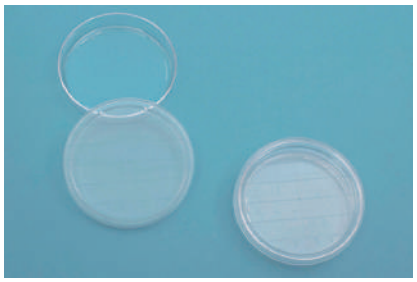
1| Flat and transparent. With CE marking.

Code	Diameter	Description	Pack
BRB013	90 mm	With triple vents	500 pcs
BRB021	90 mm	With triple vents	500 pcs
BRB014	100 mm	With triple vents	500 pcs
BRB023	60 mm	With triple vents	500 pcs
BRB015	60 mm	Without triple vents	1000 pcs
BRB016	120 mm	Without triple vents	320 pcs
BRB017	90 mm	2 cavities	500 pcs
BRB018	90 mm	3 cavities	500 pcs
BRB019	90 mm	4 cavities	500 pcs
BRB020	150 mm	With triple vents	220 pcs
BRB024	120x120 mm	Square	270 pcs
BRB022	65 mm	Contact type	500 pcs
BRB025	65 mm	Contact type	500 pcs
BRB026	60 mm	Without triple vents	500 pcs

sterile *aseptic*

Rodac dishes gridded

ENDO plasticware



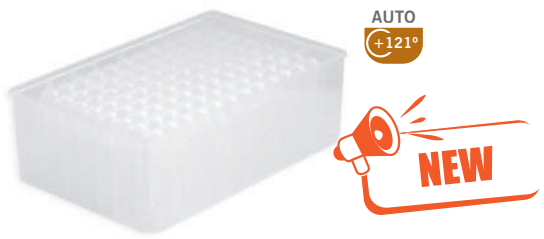
1| Made of transparent polystyrene. ASEPTIC. Grid base to facilitate colony counting. They are stackable

Code	Dimensions	Pack
BRB012	65,7x14,7 mm	B/20 pcs

BRD - Petri dishes

Deep well plate

ENDO plasticware



Code	Description	Volume	Pack
BRD009	square V-bottom	1- 2 mL	B/100
BRD010	round U-bottom	1- 2 mL	B/100

BRD - Microtiter plates

Microtitration plates, PS

Kartell

Code	Description	Plate type	Volumen	Pack
BRD001	96 plates	Flat bottom	370 µL	50 pcs
BRD002	96 plates	U	367 µL	50 pcs
BRD003	96 plates	V	288 µL	50 pcs
BRD004	Lid	-	-	50 pcs
BRD005	96 plates	Flat bottom	370 µL	50 pcs
BRD006	96 plates	U	367 µL	50 pcs
BRD007	96 plates	V	288 µL	50 pcs
BRD008	Lid	-	-	50 pcs

sterile *aseptic*

Sealing film for PCR plates

ENDO plasticware

1| For general analysis genomics, storage and bioanalysis, high-throughput screening and drug discovery applications

Code	Temperature range	Pack
BRD011*	-70ºC to +110ºC	100
BRD012	-20ºC to +100ºC	100
BRD013	-70ºc to +110ºC	100

**Compatible with ABI (Applied Biosystems) qPCR equipments*

BRG - Handles

L-shape bacteriology loops PP

Kartell

1| Angle at 100 ºC, sterile.

Code	Pack	Pack
BRG004	Individual	1000 pcs
BRG005	Pack 5 pcs.	80x5 pcs

BRG - Handles

Sterile inoculating loops

ENDO plasticware

1| Made of medical-grade polystyrene. The loop diameter ensures precise inoculation. Sterilized with ethylene oxide. Available in packs of 20 units or individually wrapped.

Code	Volume	Pack
BRG001	1 µL	500 units
BRG002	10 µL	250 units
BRG003	10 µL	500 units
BRG024*	1 µL	200 units

Steriles inoculating loops

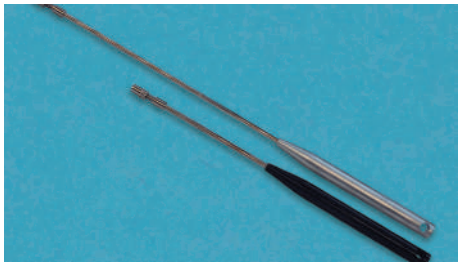
Kartell

1| Both have a needle for inoculation at the end. Sterile.

Code	Volume	Colour	Pack	Pack
BRG006	1 µL	Neutral	20 pcs.	20x20
BRG007	10 µL	Blue	20 pcs	20x20

Kolle handle

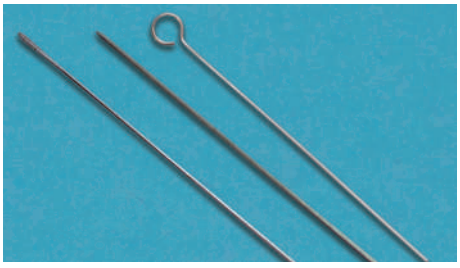
Nahita



Code	Lenght	Handle
BRG009	200 m	Plastic
BRG010	290 mm	Metalic
BRG014	250 mm	Plastic

Kolle handle, acessories

Nahita



1| Made of Ni-Cr

Code	Description	Lenght total
BRG011	Loop end 3 mm Ø	43 mm
BRG012	Needle	48 mm
BRG013	Lancet	59 mm

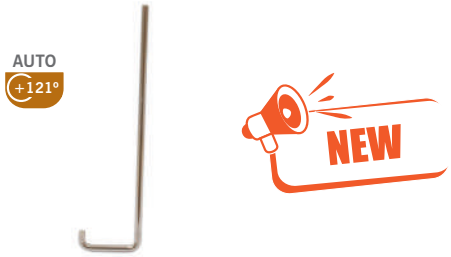
BRG - Handles

Infrared sterilizer IR900

1| Possibility of sterilizing at two temperatures: 400ºC and 800ºC

Code	Dimensions	Consumption
BRG016	175x130x185mm	150W

L-shaped spreader



1| Made of stainless steel. Reusable. Autoclavable and flame sterilizable.

Code	Head	Total length
BRG017	30 mm	150 mm
BRG018	38 mm	150 mm

Triangular spreader

1| Made of stainless steel.

Code	Head	Total length
BRG019	Anse 3 mm Ø	43 mm
BRG020	Aiguille	48 mm
BRG021	Aiguille	48 mm

Drigalski spatula

1| Made of stainless steel.

Code	Dimensions
BRG516	165x30 mm
BRG517	165x40 mm
BRG518	170 mm

BRJ - Counters

Manual counter 4 digits

1| Made of metal. Each keystroke adds one unit
2| 4 digits for a maximum count of 9999 cells or particles

Code	BRJ001

Digital counter

1| To count 10 different leukocyte types: basophils, eosinophils, monocytes, lymphocytes, neutrophils, immature and promyelocytes, etc.
2| Functions: differential percentage, differential and total count
3| I count 0-99 for each cell type. Each press adds one unit to its corresponding display and to the total count.

Code	Power
BRJ002	220 V / 50 Hz

BTB - Cuvettes, plastic

Deep trays PVC

1| Stackable

Code	Dimensions int.	Dimensions ext.
BTB001	200x150x50 mm	245x195x50 mm
BTB002	250x200x60 mm	305x250x60 mm
BTB003	320x260x70 mm	385x325x75 mm
BTB004	350x300x85 mm	420x375x85 mm
BTB005	430x330x95 mm	505x405x95 mm
BTB006	520x420x95 mm	600x495x100 mm
BTB008	675x540x100 mm	765x620x110 mm
BTB007	550x430x190 mm	635x515x190 mm

BTB - Cuvettes, plastic

Square cuvette, LDPE

1| Very resistant, they have an edge for a good grip.

Code	Capacity	Dimensions (LxAxH)
BTB060	1 L	160x160x68 mm
BTB031	3 L	220x220x91 mm
BTB032	5 L	260x260x108 mm
BTB033	7 L	310x310x128 mm
BTB064	10 L	350x350x125 mm
BTB065	12 L	390x390x140 mm

Deep tray, PP

1| It can contain 18 vials of 500 mL or 12 vials of 1 L..

Code	Dimensions ext.	Dimensions int.
BTB023	510x350x105 mm	345x510x110 mm

Stackable deep tray, HDPE

1| It can contain 18 vials of 500 mL or 12 vials of 1 L.
2| BTB038 has drainage holes.

Code	Capacity	Dimensions (LxAxH)
BTB009	10 L	415x310x97 mm
BTB037	16 L	540x350x115 mm
BTB038	16 L	540x350x115 mm
BTB010	20 L	458x410x143 mm

BTB - Cuvettes, plastic

Stackable HDPE deep tray low form

1| Made of high density polyethylene. BTB019 has drainage holes.

Code	Capacity	Internal dim. (LxAxH)	External dim. (LxAxH)
BTB017	10 L	430x320x95 mm	390x290x90 mm
BTB018	16 L	540x350x110 mm	515x325x100 mm
BTB019*	16 L	540x350x110 mm	515x325x100 mm

**with drain holes*

Stackable tall tank, HDPE

1| White Colour, high form.

Code	Capacity	Internal dim. (LxAxH)	External dim. (LxAxH)
BTB013	100 L	600x500x445 mm	535x450x430 mm
BTB014	20 L	440x315x200 mm	380x280x195 mm
BTB015	50 L	625x365x285 mm	560x330x280 mm
BTB016	80 L	725x440x330 mm	650x380x320 mm

Stackable tanks, HDPE

1| High resistance to organic and inorganic acids. With handles.

Code	Capacity	Dimensions (LxAxH)
BTB011	20 L	315x415x200 mm
BTB012	100 L	500x585x445 mm
BTB039	46 L	365x595x255 mm
BTB040	72 L	438x695x306 mm

BTB - Cuvettes, plastic

Grey trays, HDPE

Kartell

Code	Capacity	Dimensions (LxAxH)
BTB020	27 L	340x455x250 mm
BTB021	40 L	350x560x304 mm
BTB022	75 L	457x503x310 mm

Deep tray, PE

Gilac PROFESSIONNEL

Code	Capacity	Dimensions (LxAxH)
BTB034	10 L	365x157x311 mm
BTB041	19 L	350x280x160 mm
BTB035	30 L	542x195x440 mm

Rectangular tank white

Gilac PROFESSIONNEL

1| Stackable in white LDPE

Code	Capacity	Dimensions
BTB036	55 L	595x320x395 mm

Round bowl

Kartell

1| Autoclavable at +121 ºC for 20 minutes. With two handles.

Code	Volume	Diameter	Height
BTB024	10 L	350 mm	160 mm
BTB066	4,5 L	320 mm	95 mm

BTB - Cuvettes, plastic

Graduated bucket white HDPE

Kartell

1| Autoclavable at +121 ºC for 20 minutes
2| On the bottom it has two handles for easy transport.

Code	Capacity	Height	Diameter
BTB026	9 L	250 mm	280 mm
BTB025	12 L	280 mm	300 mm
BTB027	17 L	310 mm	340 mm

ENDO plasticware

Code	Capacity	Upper diameter	Lower diameter	Height
BTB030	9 L	270 mm	200 mm	250 mm
BTB028	12 L	302 mm	220 mm	280 mm
BTB029	17 L	335 mm	245 mm	310 mm

Graduated bucket white HDPE

Gilac PROFESSIONNEL

1| Autoclavable at +121 ºC for 20 minutes
2| On the bottom it has two handles for easy transport.

Code	Capacity	Height	Diameter
BTB070	10 L	315x275x280 mm	0,76 kg
BTB071	20 L	320x310x330 mm	0,94 kg

BTB - Cuvettes, plastic

Bowls, PP

1 | White. Round. With broad, stable edge and circumferential standing ring on the bottom.

Code	Volume	Ø	Height
BTB500	0,9 L	160 mm	70 mm
BTB501	1,7 L	200 mm	80 mm
BTB502	2,9 L	240 mm	100 mm
BTB503	4,3 L	280 mm	120 mm
BTB504	6,6 L	320 mm	130 mm
BTB505	9,2 L	360 mm	150 mm
BTB506	13,4 L	400 mm	180 mm

Bowl, PP, with lid

1 | White. Rectangular shape. Broad, stable, easy to grip edge.
2 | Especially easy to clean due to the rounded corners and edges and the smooth surfaces

Code	Volume	Length	Width	Height
BTB507	17 L	430 mm	331 mm	195 mm

Bowl, PP, with lid

1 | White. Without spout. With division into 1 liter segments. Stable handle with reinforcement in the middle for comfortable carrying.
2 | Tightly closing, transparent snap-on lid made of PE-LD – please order separately.

Code	Description	Volume	Graduation	Ø mm	Height
BTB508	Bucket	5L	1L	250	240
BTB509	Lid, for 5 l	-	-	-	-
BTB510	Bucket	10L	1L	290	300
BTB511	Lid, for 10 l	-	-	-	-

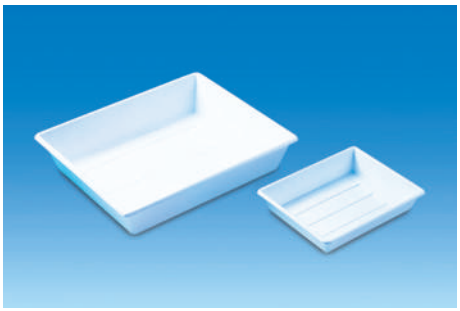
BTB - Cuvettes, plastic

Buckets with spout, PP

1 | Transparent. With division into 1 liter segments.
2 | With stable handle and spout for easy emptying.

Code	Volume	Graduation	Ø	Height
BTB512	12	1	310 mm	330 mm
BTB513	15	1	310 mm	370 mm

Laboratory trays / catchment trays, PP



1 | White. All-purpose. Robust design. Very good chemical resistance Rounded corners and edges. Smooth surfaces, easy to clean.

Code	Inner bottom dim.	Edge dimensions	Height
BTB514	130 x 180 mm	180 x 230 mm	42 mm
BTB515	180 x 240 mm	250 x 310 mm	65 mm
BTB516	240 x 300 mm	310 x 370 mm	75 mm
BTB517	300 x 400 mm	420 x 520 mm	120 mm
BTB518	400 x 500 mm	534 x 634 mm	140 mm
BTB519	500 x 700 mm	648 x 846 mm	160 mm

BTG - Cuvettes SS

Stainless steel bucket

Code	Description	Volume
BTG504	Bucket	6L
BTG506	Lid, for 6 L	-
BTG505	Bucket	12L
BTG510	Bucket	15L
BTG511	Cover, for 15L	-

BTG - Cuvettes SS

Stainless steel bowl with rim

Code	Volume	Diameter	Height
BTG534	3 L	245 mm	120 mm
BTG535	11 L	395 mm	180 mm
BTG536	5 L	315 mm	135 mm

BTL - Trays, plastic

Kidney dish, PP

1| Autoclavable, optimum chemical and thermal resistance.

Code	Lenght	Height	Capacity
BTL001	260 mm	55 mm	850 mL

Bottle tray, PP

1|Autoclavable, optimum chemical and thermal resistance.

Code	Rows	Compartments dimensions
BTL003	9	25x350 mm
BTL004	12	90x90 mm
BTL002	5	100x185 mm (4); 100x385 mm(1)

BTL - Trays, plastic

Bowl trays, PS

Code	External dimensions	Internal dimensions
BTL005	201x151x21 mm	170x110x10 mm
BTL008	151x303x21 mm	270x120x10 mm
BTL014	252x353x21 mm	320x220x10 mm
BTL015	254x254x21 mm	220x220x10 mm
BTL006	151x201x41 mm	150x100x30 mm
BTL009	151x303x42 mm	260x110x30 mm
BTL019	353X253X41 mm	310x210x30 mm
BTL011	252x252x42 mm	210x210x30 mm
BTL007	151x202x81 mm	140x90x70 mm
BTL010	151x303x81 mm	240x90x70 mm
BTL013	252x352x81 mm	290x190x70 mm
BTL012	252x252x82 mm	200x200x70 mm
BTL017	300x408x21 mm	380x270x10 mm
BTL018	300x409x42 mm	360x250x30 mm
BTL016	299x408x81 mm	340x250x70 mm

Tray flat without lid, HDPE

Code	Capacity	Dimensions
BTL020	2 L	300x65x205 mm
BTL021	3 L	350x73x235 mm
BTL022	5 L	435x75x285 mm
BTL023	8 L	490x80x335 mm
BTL024	10 L	540x80x388 mm

Grid for drawer rect

Code	Volume
BTL028	3L
BTL029	2L

BTL - Trays, plastic

Tray rectangular

AUTO +121°

Code	Description	Colour	Volume
BTL033	Rectangular tray	White	12L
BTL031	Lid for 12 L drum white	White	
BTL035	Rectangular tray	White	15L
BTL037	Rectangular tray	White	25L
BTL038	Rectangular tray	Gray	25L
BTL039	Rectangular tray	White	35L
BTL049	Deep rectangular tray	White	55L
BTL053	Lid for box 25, 35 and 55 L	White	

Rectangular tray + lid

AUTO +121°

Code	Description	Colour	Volume
BTL056	Rectangular tray + lid	Yellow	25L
BTL057	Rectangular tray + lid	Blue	25L
BTL058	Rectangular tray + lid	Green	25L
BTL059	Rectangular tray + lid	White	25L

Instrument trays, MF

1| White. Flat shape. Rounded corners. Smooth surfaces, easy to clean.

Code	Length mm	Width mm	Height mm
BTL500	190 mm	150	17
BTL501	240 mm	180	17
BTL502	268 mm	208	17
BTL503	355 mm	240	17
BTL504	428 mm	288	17

BTL - Trays, plastic

Instrument trays, MF

1| White. Tall shape. Rounded corners. Smooth surfaces, easy to clean.

Code	Length mm	Width mm	Height mm
BTL505	190	150	40
BTL511	290	160	35
BTL507	290	160	60
BTL506	350	250	40
BTL512	340	245	100

Lids for instrument trays, PS

1| Crystal clear. Rounded corners. Smooth surfaces, easy to clean.

Code	Length mm	Width mm	For tray
BTL508	190	150	BTL505
BTL509	290	160	BTL507,BTL511
BTL513	340	245	BTL512

BTN - Trays, inox

Code	External dim.	Inner dim.
BTN012	195x125x45 mm	145x95x40 mm
BTN013	245x160x45 mm	195x130x40 mm
BTN014	305x195x45 mm	250x160x40 mm
BTN015	345x260x60 mm	280x230x55 mm
BTN016	395x160x35 mm	325x115x30 mm

BTN - Trays, inox

1| 18/10 stainless steel and with flat edge.

Code	Dimensions
BTN003	170x110x20mm
BTN008	205x130x20mm
BTN004	205x145x28mm
BTN009	245x175x30mm
BTN005	265x185x30mm
BTN001	300x210x40 mm
BTN002	355x255x40 mm
BTN011	425x280x50mm
BTN006	510x340x50mm

Code	Dimensions
BTN501	180 x 30 x 260 mm
BTN504	250 x 40 x 350 mm

BTQ - Stainless steel boxes

1| Suitable for autoclave sterilization and ultrasonic cleaning. Supplied without instruments.

Code	Dimensions
BTQ001	170x70x30 mm
BTQ002	180x80x40 mm
BTQ003	200x100x40 mm
BTQ004	220x120x50 mm
BTQ005	250x120x50 mm
BTQ006	300x180x50 mm
BTQ008	400x200x100 mm

Code	Colour	Dimensions
BTQ010	Aluminium	170x70x30 mm
BTQ013	Res	170x70x30 mm
BTQ021	Aluminium	180x90x30 mm

BWC - General-purpose carts

Medical trolleys

Code	Description	Dimensions
2 trays		
BWC007	With 4 wheels, one with a brake	750x500 mm
3 trays		
BWC002	With 4 wheels, two with brakes	
BWC008		750x400 mm

Carts

Code without galleries	Code with galleries	Dimensions
2 trays		
BWC003	BWC004	600x400 mm
BWC009	BWC010	750x500 mm
BWC013	-	900x600 mm
3 trays		
BWC005	BWC006	600x430 mm
BWC011	BWC012	750x500 mm
BWC014	-	900x600 mm

BWH - Chairs

Stool with aluminum footrest

1| 5 wheels, black seat.

Code	Description	Height	Ø seat
BWH001	Standard	520 - 700 mm	330 mm
BWH002	With backrest	520 - 700 mm	330 mm

BWH - Chairs

Vela ergonomic chair

Code	Colour	Height
BWH003	White	500 - 700 mm

Fiocco Chair

Code	Colour	Height
BWH004	Red	490 - 690 mm

Wing Chair

Code	Colour	Height
BWH005	Black	500 - 700 mm

Kinga stool

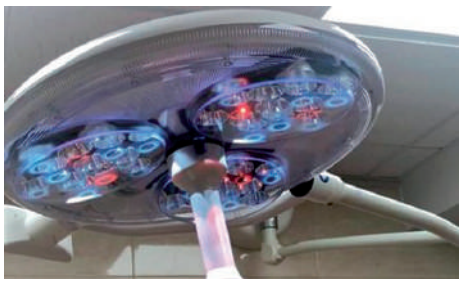
Code	Colour	Height
BWH006	White	490 - 690 mm

BWL - Surgical lamps

Common characteristics of the range

Intensity of central lighting at 1 m	150.000 lux
Adjustable size of the illuminated field d10	150-320 mm
Working distance from the head	600-1.400 mm
Colour temperature	3.100-5.000°K
Number and type of lamps per lamp	39 HD-LED
LED lifespan	>60.000 hours
Adjustment range of intensity	5-100%
Diameter of the lamp head	480 mm
Autoclavable handle	Yes
Power supply	24V DC

Astramax wall-mounted surgical lamp



Code	BWL002
Assemblage	Wall
Intensity	150k
Weight	approx 20kg
Rotation of the horizontal arm around the central axis	180°
Rotation of the balanced arm on the horizontal arm	360°
Vertical stroke of the counterbalanced arm *(up/down)*	45°(± 5°) / 45°(± 5°)
Length of the horizontal arm	800 mm
Length of the spring arm	750 mm
Reach / total radius of the arms *(exclusion head)*	1.550 mm
Height of the ceiling support	2.350 mm

Astramax surgical lamp, swivel base

Code	BWL001
Assemblage	Swivel base
Intensity	150k
Weight	18kg
Vertical stroke of the balanced arm *(up/down)*	45° (± 5°) / 45° (± 5°)
Length of the horizontal arm	800 mm
Length of the spring arm	750 mm
Reach / total radius of the spring arms	720 mm

BWL - Surgical lamps

Astramax ceiling-mounted surgical lamp

Code	BWL003
Assemblage	Ceiling
Intensity	150k
Weight	approx 20kg
Rotation of the horizontal arm around the central axis	360°
Rotation of the balanced arm on the horizontal arm	360°
Vertical stroke of the counterbalanced arm *(up/down)*	45°(± 5°) / 45°(± 5°)
Length of the horizontal arm	800 mm
Length of the spring arm	750 mm
Reach / total radius of the arms *(exclusion head)*	1.550 mm
Height of the ceiling support	2.540 mm – 3.330 mm

Astramax double surgical lamp

Code	BWL012 - double head
Assemblage	Ceiling
Intensity	150k+150k
Weight	approx 32kg
Rotation of the horizontal arm around the central axis	360° / 300°
Rotation of the balanced arm on the horizontal arm	360° / 360°
Vertical stroke of the arm upwards/downwards	45°± 5° / 45°± 5°
Length of the horizontal arm	900 mm
Length of the spring arm	750 mm
Reach / total radius of the arms *(except the head)*	1.650 mm
Height of the ceiling support	2.730 mm - 3.520 mm

Brandon MEDICAL
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BWL - Surgical lamps

Common characteristics of the ASTRALITE range

Central light intensity at 1 m	100.000 lux
Adjustable illuminated field size d10	180 mm
Working distance from the head	700-1.400 mm
Colour temperature	3.500-5.000ºK
Number and type of lights per lamp	39 HD-LED
LED lifespan	>50.000 hours
Temperature increase	Insignificant
Intensity adjustment range	5-100%
Available assemblies	Ceiling Wall Swivel base
Available head models	Single and double
Autoclavable handle	Yes
Transverse/longitudinal head rotation	360° / 290°

Code	Description
BWL004	Wall
BWL010	Ceiling
BWL011	Swivel base

Common features of the QUASAR range

Central lighting intensity at 1 m	160.000 lux
Regulation of luminous field d10	200-420 mm
Working distance from the head	600-1.400 mm
Colour temperature	3.100-5.000ºK
Number and type of lights per lamp	39 HD-LED
LED lifespan	>60.000 hours
Temperature increase at the surgeon level	Insignificant
Intensity adjustment range	5-100%
Available assemblies	Swivel base Ceiling
Diameter of the lamp head	480 mm
Autoclavable handle	Yes
Power supply	24V DC

Code	Description
BWL008	Swivel base
BWL009	Ceiling

BWM - Tables

Anti-vibration table for balances

NEW

1| For the use of equipment requiring weighing conditions or operation without vibrations, such as analytical balances or other sensitive equipment, its construction ensures the necessary damping.

Code	Dimensions
BWM005	1000x750x900 mm

Wall-mounted table with a C-shaped structure

NEW

Code	Dimensions
BWM006	1200x750x900 mm
BWM007	1500x750x900 mm
BWM008	1800x750x900 mm

Wall-mounted cabinet

NEW

Code	Dimensions
BWM009	Suspended unit under the table, 1 door opening to the right
BWM015	Suspended unit under the table, 1 door opening to the right
BWM011	Suspended furniture under the table, 1 door and 1 drawer
BWM013	Suspended furniture under the table, 4 drawers
BWM010	With wheels, 1 door
BWM016	With wheels, 1 door
BWM012	With wheels, 1 door and drawer
BWM018	With wheels, 1 door and drawer
BWM014	With wheels, 4 drawers
BWM020	With wheels, 4 drawers
BWM017	Suspended furniture under the table, 1 door and 1 drawer
BWM019	Suspended furniture under the table, 4 drawers

BYF - Sample transport/Storage

Freezing box for centrifuge tubes

1| For the freezing of centrifuge tubes, they are equipped with a screen-printed grid that allows for the identification of samples.

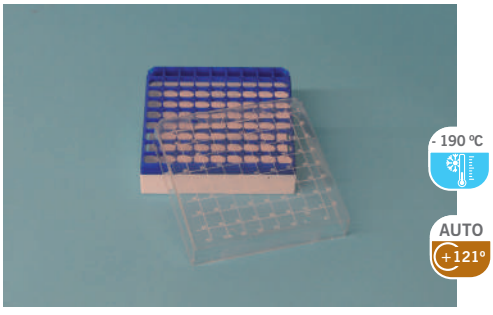
Code	Tubes	Dimensions	Package
BYF002	49x15 mL	130,5x130,5x110,5 mm	36 pcs.

Cardboard cryo box for 81 vials of 2 mL

1| Autoclavable polypropylene with a transparent lid.
2| For 0.2 mL microtubes.

Code	Capacity	Dimensions
BYF003	96 (8x12)	12,6x8,8x3,1 cm

Freezing box made of PC for cryotubes



1| With a transparent lid, made of polycarbonate.
2| Numbered positions on the lid and the base.

Code	Capacity	Dimensions	Colour
BYF017	81 tubesx1.8 mL	133x13x52 mm	Red
BYF018	81 tubesx1.8 mL	133x13x52 mm	Green
BYF019	81 tubesx1.8 mL	133x13x52 mm	Yellow
BYF020	81 tubesx1.8 mL	133x13x52 mm	Blue
BYF077	81 tubesx4.5mL		Red

BYF - Sample transport/Storage

Cryo box PP, numbered lid

ENDO plasticware

AUTO +121°

NEW

1| Made of high-transparency polypropylene. Resistant to chemicals, alcohols, and mild organic solvents.
2| Stable temperature range from -86ºC to +121ºC. The removable lid includes a writing area for the inventory list.

Réf.	Holes	Cap.	Dimensions	Colour
BYF098	81	2 mL	130x130x50	Transparent
BYF099	100	2 mL	145x145x55	Blue+Trans.
BYF100	81	2 mL	130x130x50	Transparent
BYF101	81	2 mL	145x145x53	Transparent
BYF102	24 14	1,5 mL 0,5 mL	173x105x57	Blue

Cryo box in PC with numbered lid

NEW

- 190 ºC

AUTO +121°

1| Transparent lid with a numbered grid for quick identification of samples.

Réf.	Holes	Cap.	Dimensions	Colour
BYF103	25	2 mL	130x130x50 mm	Transparent

Cardboard cryo box for 81 vials of 2 mL

NEW

- 190 ºC

Réf.	Holes	Dimensions	Colour
BYF079	81	133x133x50 mm	White
BYF080	81	133x133x50 mm	Blue
BYF081	81	133x133x50 mm	Red
BYF082	81	133x133x50 mm	Yellow
BYF083	81	133x133x50 mm	Green
BYF084	100	133x133x50 mm	White
BYF085	100	133x133x50 mm	Blue
BYF086	100	133x133x50 mm	Red
BYF087	100	1133x133x50 mm	Yellow
BYF088	100	133x133x50 mm	Green

BYF - Sample transport/Storage

Cardboard cryo box for 36 vials

ENDO plasticware

NEW

1| Made from durable cardboard with a top coating. Resistant to chemicals, alcohols, and mild organic solvents. Stable temperature range from -196ºC to +121ºC. Suitable for storing liquid nitrogen.

Code	Holes	Cap.	Dimensions
BYF089	36	15 mL	147x147x130 mm
BYF090	16	50 mL	150x150x125 mm
BYF091	81	4 mL	133x133x75 mm
BYF092	81	5 mL	133133x90 mm

Cardboard cryobox with hinged lid

ENDO plasticware

NEW

1| Made from durable cardboard with a Coloured waterproof coating. Lid connected with printing for precise placement of cryo vials.
2| Suitable for liquid nitrogen storage. Stable temperature range from -196ºC to 121ºC.

Réf.	Holes	Dimensions	Colour
BYF093	100	133x133x50 mm	White
BYF094	100	133x133x50 mm	Blue
BYF095	100	133x133x50 mm	Red
BYF096	100	1133x133x50 mm	Yellow
BYF097	100	133x133x50 mm	Green

Object holder and thermometers PP

Kartell

AUTO +121°

1| Autoclavable, can be used for soaking or moist sterilization.

Code	Body Ø	Height	Capacity	Lot
BYF004	60 mm	100 mm	230 mL	5
BYF005	90 mm	190 mm	1100 mL	5

BYF - Sample transport/Storage

Bottle Holder

Kartell

Code	Capacity	Dimensions	Lot
BYF006	6 pots	320x300x200 mm	5
BYF007	4 pots	310x300x270 mm	5

Ice Container

Kartell

Code	Dimensions
BYF010	145x322x60 mm

Safety box

Kartell

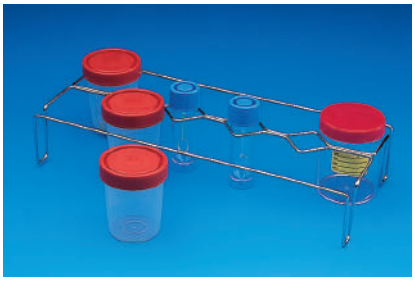
1| Polycarbonate, fully autoclavable. The lid is equipped with a hermetic silicone safety seal.

2| The biological hazard symbol is engraved on the lid.

Code	Capacity	Dimensions
BYF008	4,5 L	330x175x180 mm

Support for safety box

Kartell



1| For 10 urine bottles up to 200 ml and 4 stool bottles up to 30 mL.

Code	Dimensions
BYF009	145x322x60 mm

BYF - Sample transport/Storage

Nuuk refrigerated box

Code	Description
BYF024	Biologic freezer box with data logger, 31L
BYF025	Pharma freezer box with data logger, 31L
BYF026	Nuuk fridge cloud platform software

Thermal container

Kartell

1| With thermal insulation using polyurethane insulating chambers; approved for use with food products, completely non-toxic.

ACCESSORIES

Code	Description
BYF012	Container with cooling liquid
BYF013	Set of 4 side locks for safety box
BYF014	Silicone seal for safety box

Code	Capacity	Dimensions
BYF011	25 L	230x400x350 mm
BYF023	32 L	260x430x380 mm

ENDO plasticware

Code	Capacity	Dimensions
BYF015	25 L	230x400x350 mm
BYF016	32 L	260x430x380 mm
BYF078	45 L	520x310x400 mm

BYF - Sample transport/Storage

Polyethylene cooler box

Code	Shape	Capacity
BYF021	Square	0,6 L
BYF022	Rectangular	1,2 L

PP container with hermetic PE-LD lid

VITLAB

1| Transparent. With a snap-on lid made of PE-LD. Conical shape.

Code	Volume	Ø	Height	Lot
BYF500	5 mL	20 mm	25 mm	**25**
BYF501	18 mL	22 mm	57 mm	**25**
BYF502	50 mL	30 mm	97 mm	**10**

Sample containers, PP

VITLAB

1| Transparent. With a screw cap made of PP. Cylindrical shape, tall.

Code	Volume	GL wire	Ø	Shape	Lot
BYF503	30 mL	40	38 mm	54 mm	**10**
BYF505	60 mL	40	38 mm	90 mm	**10**
BYF508	90 mL	56	54 mm	62 mm	**10**

BYF - Sample transport/Storage

Sample containers, PFA

VITLAB

1| With a screw cap made of PFA. Cylindrical, high shape.

Code	Volume	GL wire	Ø	Height
BYF504	30 mL	40	38 mm	54 mm
BYF506	60 mL	40	38 mm	90 mm
BYF507	90 mL	56	54 mm	62 mm
BYF509	180 mL	56	54 mm	112 mm

BYH - Labels

Labels

Kartell

1| 11 transparent and cut labels for plastic and glass reagent bottles according to NFPA. Dimensions: 130x35 mm.

Code		Colour
BYH002	ACETONE	Red
BYH003	METHANOL	Black
BYH004	ISOPROPANOL	Brown
BYH005	ETHYL ACETATE	Orange
BYH006	ETHANOL	Green
BYH007	CHLOROFORM	Black
BYH009	METHYL CHLORIDE	Blac

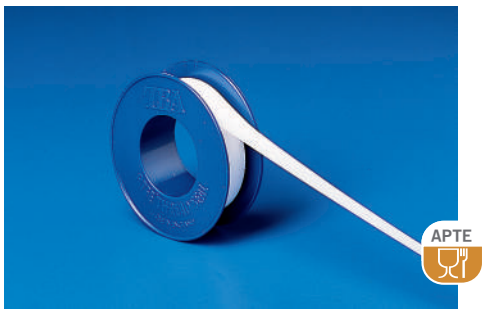
PTFE tape

VITLAB

Code	Width	Length	Lot
BYH500	141 mm	151 mm	**10**

BYK - Parafilm, PTFE tape

Kartell



1| Useful for protecting any type of thread suitable for food products.

Code	Length	Width	Lot
BYK001	12 mm	12 mm	**10**

BYH - Labels

Ruban en PTFE

1| It withstands operating temperatures ranging from -45 ºC to 50 ºC. It can be sterilized using radiation techniques such as hydrogen peroxide.

Code	Roll width	Roll length	Lot
BYH501	50 mm	75 mm	**24**
BYH502	100 mm	38 mm	**12**
BYH503	100 mm	75 mm	**1**

nahita blue

NEW RANGE OF CENTRIFUGES

INNOVATION AND EFFICIENCY IN THE LABORATORY

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CPN - Combustion boats 102

CBB - Glass, tall form

Beaker tall form, with spout

BORO 3.3

ISO 3819

Code	Capacity	d.	h.	Lot
CBB001	25 mL	30 mm	55 mm	10
CBB002	50 mL	38 mm	70 mm	10
CBB003	100 mL	48 mm	80 mm	10
CBB004	150 mL	54 mm	95 mm	10
CBB005	250 mL	60 mm	120 mm	10
CBB006	400 mL	70 mm	130 mm	10
CBB007	600 mL	80 mm	150 mm	10
CBB008	800 mL	90 mm	175 mm	10
CBB009	1000 mL	95 mm	180 mm	10
CBB010	2000 mL	120 mm	240 mm	6
CBB011	3000 mL	135 mm	280 mm	6

BORO 3.3

ISO 3819

Code	Capacity	d.	h.	Lot
CBB012	25 mL	30 mm	60 mm	12
CBB013	50 mL	38 mm	70 mm	12
CBB014	100 mL	48 mm	80 mm	12
CBB015	150 mL	54 mm	95 mm	12
CBB016	250 mL	60 mm	120 mm	8
CBB017	400 mL	70 mm	130 mm	8
CBB018	600 mL	80 mm	150 mm	8
CBB019	1000 mL	95 mm	180 mm	6
CBB020	2000 mL	127 mm	240 mm	1

CBC - Glass, low form

Beaker low form, with spout

ISO 3819

BORO 3.3

Code	Capacity	d.	h.	Lot
CBC027	5 mL	22 mm	30 mm	10
CBC028	10 mL	26 mm	35 mm	10
CBC029	25 mL	34 mm	50 mm	10
CBC030	50 mL	42 mm	60 mm	10
CBC031	100 mL	50 mm	70 mm	10
CBC032	150 mL	60 mm	80 mm	10
CBC033	250 mL	70 mm	95 mm	10
CBC034	400 mL	80 mm	110 mm	10
CBC035	600 mL	90 mm	125 mm	10
CBC036	800 mL	100 mm	135 mm	10
CBC037	1000 mL	105 mm	145 mm	10
CBC038	2000 mL	130 mm	185 mm	4
CBC039	3000 mL	150 mm	210 mm	4
CBC040	5000 mL	170 mm	270 mm	2
CBC041*	10 L	217 mm	350 mm	-
CBC042*	20 L	285 mm	430 mm	-

** No standard*

CBC - Glass, low form

Beaker low form, with spout

ISO 3819

BORO 3.3

Code	Capacity	d.	h.	Lot
CBC015	25 mL	35 mm	55 mm	12
CBC016	50 mL	43 mm	60 mm	12
CBC017	100 mL	51 mm	71 mm	12
CBC018	150 mL	61 mm	86 mm	12
CBC019	250 mL	70 mm	98 mm	8
CBC020	400 mL	79 mm	115 mm	8
CBC021	600 mL	90 mm	125 mm	8
CBC022	800 mL	100 mm	135 mm	6
CBC023	1000 mL	105 mm	145 mm	6
CBC024	2000 mL	130 mm	185 mm	2
CBC025	3000 mL	150 mm	210 mm	-
CBC026	5000 mL	170 mm	270 mm	-

Beaker intensive use

BORO 3.3

1| Reinforced edge. Thicker walls. Double scale up and down.

Code	Capacity	d.	h.	Lot
CBC009	150 mL	55 mm	90 mm	12
CBC010	250 mL	68 mm	90 mm	12
CBC011	400 mL	79 mm	110 mm	12
CBC012	600 mL	89 mm	123 mm	6
CBC013	1000 mL	105 mm	152 mm	6
CBC014	2000 mL	130 mm	196 mm	4
CBC078	4000 mL	160 mm	250 mm	1

Beaker low form, with handle

BORO 3.3

Code	Capacity	d.	h.	Lot
CBC005	250 mL	70 mm	95 mm	6
CBC006	400 mL	80 mm	110 mm	6
CBC007	600 mL	90 mm	125 mm	6
CBC008	1000 mL	105 mm	145 mm	2

CBC - Glass, low form

Beaker Boudreau

BORO 3.3

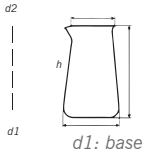
1| To determine density according to 'Archimedes' principle. Beaker with discharge tube, with spout and white graduation

Code	Capacity	d.	h.
CBC043	500 mL	97 mm	124 mm

Beakers, Philips shape

BORO 3.3

DIMENSIONS



d1: base diameter
d2: top diameter
h: height

Code	Capacity	d1	d2	h.
CBC001	150 mL	57 mm	40 mm	91 mm
CBC002	250 mL	68 mm	48 mm	110 mm
CBC003	500 mL	88 mm	61 mm	145 mm
CBC004	1000 mL	112 mm	70,5mm	184 mm

CBD - Glass, conical shape

Graduated cone shape thick glass

1| Soda glass. Wide and stable base, with spout

Code	Capacity
CBD004	60 mL
CBD005	125 mL
CBD006	250 mL
CBD007	500 mL
CBD003	2000 mL

CBD - Glass, conical shape

Graduated bell shaped glass

BORO 3.3

1| With rim and base, with spout.

Code	Capacity	Ø base	Upper Ø	Height
CBD008	5 mL	26 mm	30 mm	70 mm
CBD010	25 mL	30 mm	39 mm	90 mm
CBD011	50 mL	38 mm	50 mm	110 mm
CBD012	100 mL	49 mm	62 mm	130 mm
CBD013	250 mL	67 mm	84 mm	160 mm
CBD014	500 mL	80 mm	102 mm	200 mm
CBD015	1000 mL	100 mm	126 mm	240 mm

CBF - Plastic, conical shape

Conical measure, PP

1| Resistant up to +120 ºC. Embossed graduation.

Code	Capacity	Graduation	Height
CBF001	100 mL	2 mL	118 mm
CBF002	250 mL	5 mL	164 mm
CBF003	500 mL	10 mL	183 mm
CBF004	1000 mL	20 mL	263 mm

Graduated conical measures TPX

1| Resistant up to +170 ºC. Embossed graduation.

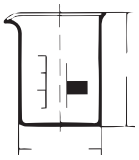
Code	Capacity	Graduation	Height
CBF005	100 mL	2 mL	117 mm
CBF006	250 mL	5 mL	162 mm
CBF007	500 mL	10 mL	183 mm
CBF008	1000 mL	20 mL	163 mm

CBG - Plastic, printed graduated

Beaker low form, graduated, PMP (TPX)

Kartell

DIMENSIONS



d: diameter
h: height

1| Permanent graduations are moulded in for reproducibility. Excellent chemical resistance.

Code	Capacity	Grad.	d.	h.
CBG001	25 mL	1	34	49
CBG002	50 mL	2	42	60
CBG003	100 mL	5	52	72
CBG004	250 mL	10	71	95
CBG005	500 mL	10	88	119
CBG006	1000 mL	20	110	146
CBG007	2000 mL	50	133	184
CBG008	3000 mL	500	159	200
CBG009	5000 mL	500	190	228

Griffin beaker, PMP

VITLAB

1| Transparent. With legible red printed graduation. In order to protect the print, we recommend not to exceed a temperature of 60 °C while cleaning.

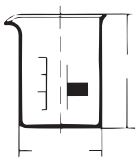
Code	Volume	Divisions	Height	Diameter
CBG501	10 mL	2 mL	35 mm	25 mm
CBG502	25 mL	5 mL	47 mm	31 mm
CBG503	50 mL	10 mL	60 mm	40 mm
CBG504	100 mL	20 mL	70 mm	49 mm
CBG505	150 mL	50 mL	80 mm	56 mm
CBG506	250 mL	50 mL	94 mm	68 mm
CBG507	400 mL	100 mL	109 mm	77 mm
CBG508	500 mL	100 mL	122 mm	88 mm
CBG509	600 mL	100 mL	125 mm	91 mm
CBG511	1000 mL	100 mL	149 mm	102 mm
CBG512	2000 mL	200 mL	183 mm	133 mm
CBG513	3000 mL	200 mL	214 mm	174 mm
CBG514	5000 mL	200 mL	248 mm	185 mm

CBG - Plastic, printed graduated

Beaker PP blue graduation low form

Kartell

DIMENSIONS



d: diameter
h: height

1| Highly transparent heat-resistant polypropylene. Resists +100 ºC during continuous use.

Code	Cap.	Grad.	d.	h.	Lot
CBG010	25 mL	1 mL	34 mm	49 mm	**20**
CBG011	50 mL	2 mL	41 mm	60 mm	**20**
CBG012	100 mL	5 mL	51 mm	72 mm	**12**
CBG013	250 mL	10 mL	71 mm	95 mm	**16**
CBG014	500 mL	10 mL	87 mm	119 mm	**12**
CBG015	1000 mL	20 mL	109 mm	147 mm	**4**
CBG016	2000 mL	50 mL	132 mm	183.5 mm	**4**
CBG017	3000 mL	500 mL	158 mm	201 mm	**2**
CBG018	5000 mL	500 mL	188.5 mm	229 mm	**2**

Griffin beaker, PP

VITLAB

1| High transparency. With legible blue printed graduation. In order to protect the print, we recommend not to exceed a temperature of 60 °C while cleaning. Autoclavable with restrictions at 121 °C (2 bar) according to DIN EN 285.

Code	Volume	Divisions	Height	Diameter
CBG523	10 mL	2	36	30
CBG524	25 mL	5	50	38
CBG525	50 mL	10	60	47
CBG526	100 mL	10	70	55
CBG527	150 mL	20	80	66
CBG528	250 mL	25	95	77
CBG529	400 mL	50	111,5	87
CBG530	500 mL	50	117,5	94
CBG531	600 mL	50	126,5	100
CBG532	1000 mL	100	147	120
CBG533	2000 mL	200	187	149
CBG534	3000 mL	250	212	170
CBG535	5000 mL	500	214	203

CBH - Plastic, moulded graduated

Beaker PP low form

ENDO plasticware

Code	Cap.	Grad.	d.	h.	Lot
CBH001	50 mL	10 mL	42 mm	60 mm	**10**
CBH002	100 mL	20 mL	54 mm	70 mm	**10**
CBH003	250 mL	50 mL	71 mm	100 mm	**10**
CBH004	500 mL	100 mL	92 mm	120 mm	**10**
CBH005	1000 mL	100 mL	110 mm	145 mm	**6**

Kartell

1| Highly transparent heat-resistant polypropylene.

Code	Cap.	Grad.	d.	h.	Lot
CBH006	25 mL	1 mL	34 mm	49 mm	**20**
CBH007	50 mL	2 mL	41 mm	60 mm	**20**
CBH008	100 mL	5 mL	51 mm	72 mm	**12**
CBH009	250 mL	10 mL	71 mm	95 mm	**16**
CBH010	500 mL	10 mL	87 mm	119 mm	**12**
CBH011	1000 mL	20 mL	109 mm	147 mm	**4**
CBH012	2000 mL	50 mL	132 mm	183.5 mm	**4**
CBH013	3000 mL	500 mL	158 mm	201 mm	**2**
CBH014	5000 mL	500 mL	188.5mm	229 mm	**2**

Beaker PP low form

Kartell

Code	Cap.	Grad.	d.	h.	Lot
CBH015	25 mL	1 mL	34 mm	49 mm	20
CBH016	50 mL	2 mL	42 mm	60 mm	20
CBH017	100 mL	5 mL	52 mm	72 mm	12
CBH018	250 mL	10 mL	71 mm	95 mm	16
CBH019	500 mL	10 mL	88 mm	119 mm	12
CBH020	1000 mL	20 mL	110 mm	146 mm	4
CBH021	2000 mL	50 mL	133 mm	184 mm	4
CBH022	3000 mL	500 mL	159 mm	200 mm	2
CBH023	5000 mL	500 mL	190 mm	228 mm	2

CBH - Plastic, moulded graduated

Griffin beaker, PP

VITLAB

Code	Volume	Divisions	Height	Diameter
CBH509	25 mL	5 mm	50 mm	38 mm
CBH510	50 mL	10 mm	60 mm	47 mm
CBH511	100 mL	10 mm	70 mm	55 mm
CBH512	150 mL	20 mm	80 mm	66 mm
CBH513	250 mL	25 mm	95 mm	77 mm
CBH514	400 mL	50 mm	111,5 mm	87 mm
CBH515	600 mL	50 mm	126,5 mm	100 mm
CBH516	1000 mL	100 mm	147 mm	120 mm
CBH517	2000 mL	200 mm	187 mm	149 mm
CBH518	3000 mL	250 mm	212 mm	170 mm
CBH519	5000 mL	500 mm	247 mm	203 mm

CBJ - SS with spout

ENDO metalware

1| Made of AISI 304 stainless steel. They have a smooth, easy-to-clean surface. With curved edge and resistant to chemical agents.

Code	Volume	Height	Diameter
CBJ006	250 mL	85 mm	70 mm
CBJ007	500 mL	132 mm	85 mm
CBJ008	1000 mL	148 mm	102 mm
CBJ009	2000 mL	180 mm	132 mm
CBJ010	3000 mL	180 mm	160 mm
CBJ011	5000 mL	210 mm	180 mm

CBK - SS, without spout

ENDO metalware

Code	Volume	Height	Diameter
CBK008	250 mL	85 mm	70 mm
CBK009	500 mL	132 mm	85 mm
CBK010	1000 mL	148 mm	102 mm
CBK011	2000 mL	180 mm	132 mm
CBK012	3000 mL	180 mm	160 mm
CBK013	5000 mL	210 mm	180 mm

CCB - Plastic, moulded graduation

Graduated jug tall form, PP

ENDO plasticware

Code	Cap.	Grad.	d.	h.	Lot
CCB001	250 mL	10/1	82 mm	100 mm	**10**
CCB002	500 mL	10/1	95 mm	125 mm	**10**
CCB003	1000 mL	100/1	110 mm	180 mm	**6**
CCB004	2000 mL	200/1	155 mm	220 mm	**6**

Kartell

Code	Cap.	Grad.	d.	h.	Lot
CCB011	250 mL	5/1	73 mm	119 mm	**12**
CCB012	500 mL	10/1	93 mm	140 mm	**12**
CCB013	1000 mL	10/1	117 mm	169 mm	**6**
CCB014	2000 mL	20/1	149 mm	213 mm	**6**
CCB015	3000 mL	50/1	172 mm	240 mm	**6**

VITLAB

1 | Raised graduation. Thick walls and high chemical resistance.

Code	Volume	Divis.	Height	Diameter	Lot
CCB501	50 mL	2 mL	70 mm	40 mm	**24**
CCB502	100 mL	2 mL	80 mm	50 mm	**24**
CCB503	250 mL	5 mL	120 mm	70 mm	**12**
CCB504	500 mL	10 mL	133 mm	91 mm	**12**
CCB505	1000 mL	20 mL	182 mm	116 mm	**6**
CCB506	2000 mL	50 mL	215 mm	150 mm	**6**
CCB507	3000 mL	50 mL	242 mm	170 mm	**6**
CCB508	5000 mL	100 mL	270 mm	210 mm	**6**

CCB - Plastic, moulded graduation

Stackable jug, PP

ENDO plasticware

1 | Embossed graduation.

Code	Cap.	d.	h.
CCB021	250 mL	75 mm	115 mm
CCB022	500 mL	100 mm	137 mm
CCB023	1000 mL	125 mm	167 mm
CCB024	2000 mL	150 mm	217 mm
CCB025	3000 mL	170 mm	244 mm

Low shape, PP

ENDO plasticware

Code	Cap.	Grad.	d.	h.	Lot
CCB005	250 mL	10/1	85 mm	85 mm	**10**
CCB006	500 mL	10/1	90 mm	118 mm	**10**
CCB007	1000 mL	50/1	119 mm	130 mm	**6**
CCB008	2000 mL	200/1	143mm	167 mm	**6**
CCB009	3000 mL	100/1	167 mm	180 mm	**6**
CCB010	5000 mL	250/1	190 mm	270 mm	**4**

Kartell

Code	Cap.	Grad.	d.	h.
CCB016	500 mL	25 mL	90 mm	116 mm
CCB017	1000 mL	50 mL	116 mm	131 mm
CCB018	2000 mL	50 mL	145 mm	165 mm
CCB019	3000 mL	100 mL	165 mm	180 mm
CCB020	5000 mL	250 mL	190 mm	225 mm

CCD - Plastic, printed graduation

Stackable jug, tall shape, PP

ENDO plasticware

1| Graduation in blue. They resist temperatures from -10 °C to 120 °C. Color: neutral - Made with ultra transparent PP.

Code	Cap.	d.	h.
CCD001	250 mL	75 mm	115 mm
CCD002	500 mL	100 mm	137 mm
CCD003	1000 mL	125 mm	167 mm
CCD004	2000 mL	150 mm	217 mm
CCD005	3000 mL	170 mm	244 mm

Graduated pitcher, PP

VITLAB

1| High transparency. With easy-to-read embossed blue scale and solid, practical handle. To preserve the graduation, cleaning is recommended < 60°C.

Code	Volume	Division	Height	Diameter	Lot
CCD501	50 mL	2 mL	70 mm	40 mm	**24**
CCD502	100 mL	2 mL	80 mm	50 mm	**24**
CCD503	250 mL	5 mL	120 mm	70 mm	**12**
CCD504	500 mL	10 mL	133 mm	91 mm	**12**
CCD505	1000 mL	20 mL	182 mm	116 mm	**6**
CCD506	2000 mL	50 mL	215 mm	150 mm	**6**
CCD507	3000 mL	50 mL	242 mm	170 mm	**6**
CCD508	5000 mL	100 mL	270 mm	210 mm	**6**

Graduated pitcher, nesting, PP

VITLAB

Code	Volume	Division	Height	Diameter	Lot
CCD509	250 mL	5 mm	115 mm	75 mm	**12**
CCD510	500 mL	10 mm	140 mm	100 mm	**12**
CCD511	1000 mL	10 mm	167 mm	125 mm	**12**
CCD512	2000 mL	20 mm	212 mm	148 mm	**12**
CCD513	3000 mL	50 mm	242 mm	170 mm	**12**

CCG - Inox, with spout

Stainless steel jug with rim and spout

ENDO metalware

1| Made of AISI 304 stainless steel. They have a smooth, easy-to-clean surface. With curved edge and resistant to chemical agents.

Code	Volume	Height	Diameter
CCG008	250 mL	85 mm	70 mm
CCG009	500 mL	132 mm	85 mm
CCG010	1000 mL	148 mm	102 mm
CCG011	2000 mL	180 mm	132 mm
CCG012	3000 mL	180 mm	160 mm
CCG013	5000 mL	210 mm	180 mm

CCJ - Inox, without spout

AGENCINOX

Code	Volume	Ø x h
CCJ005	100 mL	50x60 mm
CCJ006	250 mL	65x80 mm
CCJ001	1000 mL	100x130 mm
CCJ002	2000 mL	120x180 mm
CCJ003	3000 mL	150x180 mm
CCJ004	5000 mL	180x210 mm

CDB - Erlenmeyer, glass

Reinforced neck

ENDO glassware

Code	Cap.	d1.	d2.	h.	Lot
CDB020	50 mL	51 mm	22 mm	85 mm	**12**
CDB021	100 mL	64 mm	22 mm	105 mm	**12**
CDB022	250 mL	85 mm	34 mm	140 mm	**12**
CDB023	500 mL	105 mm	34 mm	175 mm	**8**
CDB024	1000 mL	131 mm	42 mm	220 mm	**6**
CDB051	2000 mL	166 mm	50 mm	280 mm	**2**

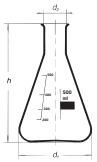
CDB - Erlenmeyer, glass

Narrow neck

BORO 3.3

ISO 1773

DIMENSIONS



d1: Ø base
d2: Ø neck
h: height

Code	Cap.	d1.	d2.	h.	Lot
CDB001	25 mL	42 mm	22 mm	75 mm	**10**
CDB002	50 mL	51 mm	22 mm	90 mm	**10**
CDB003	100 mL	64 mm	22 mm	105 mm	**10**
CDB005	250 mL	85 mm	34 mm	145 mm	**10**
CDB007	500 mL	105 mm	34 mm	180 mm	**10**
CDB008	1000 mL	131 mm	42 mm	220 mm	**10**
CDB009	2000 mL	166 mm	50 mm	280 mm	**6**
CDB010	3000 mL	187 mm	50 mm	310 mm	**6**
CDB011	5000 mL	220 mm	50 mm	365 mm	**2**

ISO 1773

BORO 3.3

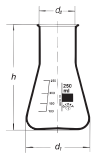
Code	Cap.	d1.	d2.	h.	Lot
CDB012	25 mL	45 mm	18 mm	70 mm	**12**
CDB013	50 mL	55 mm	23 mm	80 mm	**12**
CDB014	100 mL	65 mm	30 mm	110 mm	**12**
CDB015	250 mL	85 mm	32 mm	140 mm	**12**
CDB016	500 mL	105 mm	35 mm	185 mm	**8**
CDB017	1000 mL	130 mm	44 mm	215 mm	**6**
CDB018	2000 mL	170 mm	40 mm	290 mm	**2**
CDB019	3000 mL	190 mm	40 mm	310 mm	**2**

Wide neck

ISO 24450

BORO 3.3

DIMENSIONS



d1: Ø base
d2: Ø neck
h: height

Code	Cap.	Ø base	Ø neck	h.	Lot
CDB030	25 mL	42 mm	32 mm	70 mm	**10**
CDB031	50 mL	51 mm	34 mm	85 mm	**10**
CDB032	100 mL	64 mm	34 mm	105 mm	**10**
CDB033	250 mL	79 mm	50 mm	131 mm	**10**
CDB035	300 mL	87 mm	50 mm	156 mm	**10**
CDB036	500 mL	105 mm	50 mm	175 mm	**10**
CDB037	1000 mL	131 mm	50 mm	220 mm	**10**
CDB038	2000 mL	153 mm	72 mm	280 mm	**6**

CDB - Erlenmeyer, glass

Wide neck

ISO 24450

BORO 3.3

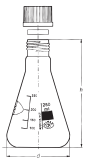
Code	Cap.	d1.	d2.	h.	Lot
CDB025	50 mL	51 mm	34 mm	85 mm	**12**
CDB026	100 mL	64 mm	34 mm	110 mm	**12**
CDB027	250 mL	85 mm	50 mm	140 mm	**12**
CDB028	500 mL	105 mm	50 mm	170 mm	**8**
CDB029	1000 mL	131 mm	50 mm	200 mm	**6**

Screw cap

BORO 3.3

ISO 24450

DIMENSIONS



d: width
h: height

Code	GL	Cap.	d.	h.	Lot
CDB039	25	100 mL	64 mm	100 mm	**10**
CDB040	32	250 mL	85 mm	140 mm	**10**
CDB043	45	250 mL	85 mm	150 mm	**10**
CDB041	32	500 mL	105 mm	175 mm	**10**
CDB044	45	500 mL	105 mm	185 mm	**10**
CDB042	32	1000 mL	131 mm	215 mm	**10**
CDB045	45	1000 mL	131 mm	215 mm	**10**

NEW

BORO 3.3

Code	GL	Cap.	d.	h.	Lot
CDB072	25	50 mL	51 mm	85 mm	**2**
CDB073	25	100 mL	64 mm	114 mm	**2**
CDB074	32	250 mL	85 mm	143 mm	**2**
CDB075	32	500 mL	105 mm	183 mm	**2**
CDB076	32	1000 mL	85 mm	143 mm	**10**

CDB - Erlenmeyer, glass

Baffled

BORO 3.3

1| For cell cultures. GL 45.

Code	Cap.	d.	h.	Lot
CDB047	250 mL	85 mm	150 mm	**10**
CDB048	500 mL	105 mm	185 mm	**10**
CDB049	1000 mL	131 mm	225 mm	**10**
CDB050	2000 mL	160 mm	290 mm	**6**

CDD - Erlenmeyer, plastic

Erlenmeyer, PP

Code	Neck	Cap.	Grad.	Lot
CDD001	14/23	50 mL	10 mL	**20**
CDD002	14/23	125 mL	25 mL	**20**
CDD003	19/26	250 mL	25 mL	**15**
CDD004	24/29	500 mL	50 mL	**8**
CDD005	29/32	1000 mL	50 mL	**8**
CDD006	34/35	2000 mL	100 mL	**4**

Sterile Erlenmeyer flask for cell culture

1| PC bottle, HDPE cap. Tolerable temperature -80ºC - 121ºC.
2| DNase/RNase free, nonpyrogenic. Individually wrapped in sterile bags. Sterilized by Electron Beam.

Code	Volume
CDD007	125 mL
CDD008	250 mL
CDD009	500 mL
CDD010	1000 mL

CDG - Flat bottom, glass

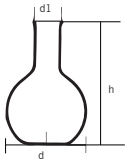
Narrow neck

BORO 3.3

Code	Cap.	d.	d1.	h.
CDG001	50 mL	50 mm	22 mm	105 mm
CDG002	100 mL	65 mm	22 mm	108 mm
CDG003	250 mL	85 mm	34 mm	140 mm
CDG004	500 mL	105 mm	34 mm	180 mm
CDG005	1000 mL	135 mm	43 mm	210 mm
CDG006	2000 mL	160 mm	52 mm	250 mm
CDG007	3000 mL	188 mm	59 mm	282 mm

BORO 3.3

DIMENSIONS



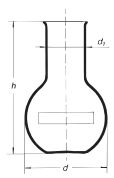
d1: Ø base
d2: Ø neck
h: height

Code	Cap.	d.	d1.	h.
CDG013	50 mL	51 mm	22 mm	100 mm
CDG014	100 mL	64 mm	22 mm	110 mm
CDG015	250 mL	85 mm	34 mm	140 mm
CDG016	500 mL	105 mm	34 mm	170 mm
CDG017	1000 mL	131 mm	42 mm	200 mm
CDG018	2000 mL	166 mm	50 mm	250 mm
CDG019	4000 mL	207 mm	50 mm	300 mm
CDG020	6000 mL	236 mm	65 mm	340 mm
CDG021	10 L	279 mm	65 mm	400 mm

Wide neck

BORO 3.3

DIMENSIONS



d1: Ø neck
d: Ø base
h: height

Code	Cap.	d.	d1.	h.
CDG022	50 mL	51 mm	34 mm	100 mm
CDG008	100 mL	64 mm	34 mm	110 mm
CDG009	250 mL	85 mm	50 mm	140 mm
CDG010	500 mL	105 mm	50 mm	170 mm
CDG011	1000 mL	131 mm	50 mm	200 mm
CDG012	2000 mL	166 mm	76 mm	250 mm

CDG - Flat bottom, glass

Wide neck

Code	Cap.	d1.	d2.	h.
CDG028	100 mL	64 mm	34 mm	105 mm
CDG029	250 mL	85 mm	50 mm	138 mm
CDG030	500 mL	105 mm	50 mm	163 mm
CDG031	1000 mL	131 mm	50 mm	190 mm
CDG032	2000 mL	166 mm	76 mm	230 mm

CDJ - Round bottom, glass

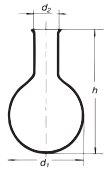
Kjeldahl

BORO 3.3

Code	Cap.	d1.	d2.	h.
CDJ020	100 mL	60 mm	34 mm	200 mm
CDJ021	250 mL	81 mm	34 mm	270 mm
CDJ022	500 mL	101 mm	34 mm	300 mm

Narrow neck

DIMENSIONS



d2: Ø neck
d1: Ø base
h: height

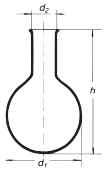
Code	Cap.	d1.	d2.	h.
CDJ001	50 mL	50 mm	22 mm	105 mm
CDJ002	100 mL	65 mm	22 mm	108 mm
CDJ003	250 mL	85 mm	34 mm	140 mm
CDJ004	500 mL	105 mm	34 mm	180 mm
CDJ005	1000 mL	135 mm	43 mm	210 mm
CDJ006	2000 mL	175 mm	50 mm	270 mm
CDJ007	5000 mL	230 mm	56 mm	345 mm

CDJ - Round bottom, glass

Narrow neck

BORO 3.3

DIMENSIONS



d2: Ø neck
d1: Ø base
h: height

Code	Cap.	d1.	d2.	h.
CDJ008	50 mL	51 mm	11 mm	105 mm
CDJ009	100 mL	64 mm	22 mm	115 mm
CDJ010	250 mL	85 mm	34 mm	145 mm
CDJ011	500 mL	105 mm	34 mm	175 mm
CDJ012	1000 mL	131 mm	42 mm	210 mm
CDJ013	2000 mL	166 mm	50 mm	260 mm
CDJ014	4000 mL	207 mm	50 mm	315 mm
CDJ015	6000 mL	236 mm	65 mm	355 mm
CDJ016	10 L	279 mm	65 mm	420 mm
CDJ017	20 L	345 mm	80 mm	500 mm

CFB - Clear glass

ISO type, ECO blue cap.

1| Made of soda-lime glass. Discharge blue ring and screw PP. Graduation and white labeling surface. DIN GL45 thread.

Code	Cap.	d.	h.	Lot
CFB001	100 mL	56 mm	105 mm	**12**
CFB002	250 mL	70 mm	143 mm	**12**
CFB003	500 mL	86 mm	182 mm	**12**
CFB004	1000 mL	101 mm	203 mm	**10**

CFB - Clear glass / CFD - Amber glass

ISO bottle with blue srew and ring, GL45

1| Graduated. Outlet ring and polypropylene stopper (sterilizable up to 140ºC).

Code	Cap.	GL	d.	h.
Clear glass				
CFB023	50 mL	32	46 mm	91 mm
CFB014	100 mL	45	56 mm	105 mm
CFB015	250 mL	45	70 mm	143 mm
CFB016	500 mL	45	86 mm	181 mm
CFB017	1000 mL	45	101 mm	230 mm
CFB018	2000 mL	45	136 mm	265 mm
CFB019	3800 mL	45	160 mm	320 mm
CFB020	5000 mL	45	181 mm	336 mm
CFB021	10 L	45	227 mm	416 mm
CFB022	20 L	45	288 mm	512 mm
CFB073	40 L	80	410 mm	571 mm
Amber glass				
CFD011	50 mL	32	46 mm	91 mm
CFD001	100 mL	45	56 mm	105 mm
CFD002	250 mL	45	70 mm	143 mm
CFD003	500 mL	45	86 mm	182 mm
CFD004	1000 mL	45	101 mm	203 mm
CFD005	2000 mL	45	136 mm	260 mm
CFD006	3800 mL	45	160 mm	320 mm
CFD007	5000 mL	45	181 mm	330 mm
CFD008	10 L	45	227 mm	410 mm
CFD009	20 L	45	288 mm	512 mm

ISO bottle with red srew and ring, GL45

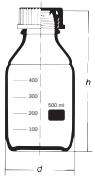
1| PBT discharge ring and screw (sterilizable up to 200º C).

Code	Cap.	d.	h.
CFB005	100 mL	56 mm	105 mm
CFB006	250 mL	70 mm	143 mm
CFB007	500 mL	86 mm	181 mm
CFB008	1000 mL	101 mm	230 mm

CFB - Clear glass / CFD - Amber glass

ISO flask without screw and ring

DIMENSIONES



d: diameter
h: height

1| Cap and outlet ring not included.

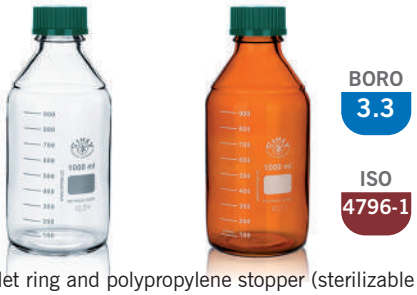
Code	Cap.	d.	h.
CFB035	100 mL	56 mm	100 mm
CFB036	250 mL	70 mm	138 mm
CFB037	500 mL	86 mm	176 mm
CFB038	1000 mL	101 mm	225 mm
CFB039	2000 mL	136 mm	260 mm

ISO bottle with blue srew and ring, GL80

1| Graduated. Pouring ring and PP cap (sterilizable up to 140º C).

Code	Cap.	Dimensions	h.
Clear Glass			
CFB024	500 mL	94x94 mm	139 mm
CFB025	1000 mL	105x105 mm	185 mm
CFB026	2000 mL	225x115 mm	258 mm
CFB027	5000 mL	160x160 mm	357 mm
Amber Glass			
CFD012	500 mL	94x94 mm	139 mm
CFD013	1000 mL	105x105 mm	185 mm
CFD014	2000 mL	115x115 mm	258 mm
CFD015	5000 mL	160x160 mm	357 mm

ISO bottle with green srew and ring, GL45



1| Outlet ring and polypropylene stopper (sterilizable up to 140ºC).

Code	Cap.	d.	h.
Clear glass			
CFB040	100 mL	56 mm	100 mm
CFB041	250 mL	70 mm	138 mm
CFB042	500 mL	86 mm	176 mm
CFB043	1000 mL	101 mm	225 mm
CFB044	2000 mL	136 mm	260 mm
CFB045	3800 mL	160 mm	320 mm
CFB046	5000 mL	186 mm	330 mm
CFB047	10 L	234 mm	410 mm
CFB049	20 L	299 mm	505 mm

* also available in amber glass

CFB - Clear glass / CFD - Amber glass

ISO bottle with orange srew and ring, GL45

BORO 3.3

ISO 4796-1

1 | Outlet ring and polypropylene stopper (sterilizable up to 140ºC).

Code	Cap.	d.	h.
Clear glass			
CFB050	100 mL	56 mm	100 mm
CFB051	250 mL	70 mm	138 mm
CFB052	500 mL	86 mm	176 mm
CFB053	1000 mL	101 mm	225 mm
CFB054	2000 mL	136 mm	260 mm
CFB056	5000 mL	186 mm	330 mm
CFB057	10 L	234 mm	410 mm
CFB059	20 L	299 mm	505 mm
Amber glass			
CFD030	250 mL	70 mm	138 mm
CFD032	1000 mL	101 mm	225 mm
CFD033	2000 mL	136 mm	260 mm
CFD034	3800 mL	160 mm	320 mm
CFD035	5000 mL	186 mm	330 mm
CFD036	10 L	234 mm	410 mm
CFD038	20 L	299 mm	505 mm

ISO bottle with orange screw and ring, GL45

ISO 4796-1

BORO 3.3

1 | Graduated. Outlet ring and polypropylene stopper (sterilizable up to 140ºC).

Code	Cap.	d.	h.
Clear glass			
CFB060	100 mL	56 mm	100 mm
CFB061	250 mL	70 mm	138 mm
CFB062	500 mL	86 mm	176 mm
CFB063	1000 mL	101 mm	225 mm
CFB064	2000 mL	136 mm	260 mm
CFB065	3800 mL	160 mm	320 mm
CFB066	5000 mL	186 mm	330 mm
CFB067	10 L	234 mm	410 mm
CFB069	20 L	299 mm	505 mm
Amber glass			
CFD039	100 mL	56 mm	100 mm
CFD040	250 mL	70 mm	138 mm
CFD041	500 mL	86 mm	176 mm
CFD042	1000 mL	101 mm	225 mm
CFD043	2000 mL	136 mm	260 mm
CFD044	3800 mL	160 mm	320 mm
CFD045	5000 mL	186 mm	330 mm
CFD046	10 L	234 mm	410 mm
CFD048	20 L	299 mm	505 mm

CFG - Accessories

PP cap ISO bottle

1 | The PBT screw (Code CFG042) has a thermal resistance of 200 ºC. PP plugs have a thermal resistance of 140 ºC.

Code	Colour	GL.	Material
CFG042	Red	45	PB
CFG044	Blue	45	PP
CFG046	Blue	32	PP
CFG054	Green	45	PP
CFG055	Orange	45	PP
CFG056	Yellow	45	PP

Outlet ring fot bottles

Code	Colour	GL.	Material	Resistance
CFG041	Red	45	PBT	200 ºC
CFG043	Blue	45	PP	140 ºC
CFG045	Blue	32	PP	140 ºC

Cap and pouring ring

Code	Colour	GL.	Material	Resistance
CFG048	Blue	80	PP	140 ºC
CFG047	Blue outlet ring	80	PP	-

CGB - Accessories

Wide mouth, glass

Code	Cap.	Height	Ø mouth
CGB001	125 mL	50 mm	60 mm
CGB002	250 mL	90 mm	70 mm
CGB003	500 mL	110 mm	70 mm
CGB004	1000 mL	170 mm	70 mm
CGB005	2000 mL	210 mm	100 mm
CGB006	4000 mL	260 mm	100 mm

CGD - Wide mouth, plastic

Graduated flask, neck bottles

Kartell

Code	Cap.	Grad.	h.	Ø mouth
CGD001	50 mL	10 mL	77 mm	24 mm
CGD002	100 mL	20 mL	89 mm	24 mm
CGD003	250 mL	25 mL	126 mm	34,5 mm
CGD004	500 mL	50 mL	158 mm	34,5 mm
CGD005	1000 mL	100 mL	200 mm	45 mm
CGD006	2000 mL	100 mL	247 mm	45 mm

Square urine bottle, HDPE

Kartell

Code	Capacity	Ø mouth	Color
CGD007	2000 mL	75 mm	White
CGD008	2000 mL	75 mm	Brown

Square bottle

ENDO plasticware

1| Made of high-density polyethylene, neutral colour.

Code	Cap.	Grad.	Dimensions	Ø mouth
CGD058	25 mL	5 mL	30x32 mm	18.5 mm
CGD059	50 mL	10 mL	35x37 mm	24 mm
CGD060	100 mL	20 mL	44x47 mm	34.5 mm
CGD061	250 mL	50 mL	57x60 mm	34.5 mm
CGD062	500 mL	100 mL	70x80 mm	45 mm
CGD063	1000 mL	100 mL	82x102 mm	60 mm
CGD064	2000 mL	100 mL	100x134 mm	60 mm

CGD - Wide mouth, plastic

Square bottle

Kartell

1| Body made of polyethylene (mixture of LDPE and HDPE) and cap of polypropylene.

Code	Cap.	Grad.	Dimensions	Ø mouth
CGD009	25 mL	5 mL	32x34x52 mm	18 mm
CGD010	50 mL	10 mL	38x38x70 mm	24 mm
CGD011	100 mL	20 mL	42x48x90 mm	34.5 mm
CGD012	250 mL	50 mL	57x60x110 mm	34.5 mm
CGD013	500 mL	100 mL	70x80x138 mm	45 mm
CGD014	1000 mL	100 mL	80x103x176 mm	58 mm
CGD015	2000 mL	100 mL	100x134x210 mm	58 mm

Duchess-type bottle

ENDO plasticware

1| Made of high density polypropylene, neutral color.

Code	Cap.	Diameter	Height	Ø mouth
CGD043	70 mL	50 mm	60 mm	36 mm
CGD044	120 mL	57 mm	70 mm	36 mm
CGD045	250 mL	67 mm	90 mm	50 mm
CGD046	500 mL	91 mm	103 mm	70 mm
CGD047	1000 mL	110 mm	127 mm	86 mm
CGD048	2000 mL	125 mm	185 mm	85 mm

Kartell

1| Made of HDPE. With shutter under the screw.

Code	Cap.	Diameter	Height	Ø mouth
CGD016	70 mL	50 mm	60 mm	36 mm
CGD017	120 mL	56 mm	71 mm	36 mm
CGD018	250 mL	69 mm	94 mm	50 mm
CGD019	500 mL	86 mm	107 mm	70 mm
CGD020	1000 mL	111 mm	128 mm	85 mm
CGD021	2000 mL	111 mm	235 mm	87 mm
CGD022	1500 mL	111 mm	182 mm	87 mm

CGD - Wide mouth, plastic

Graduated wide neck bottle, PE

ENDO plasticware

1| Made of low density PE, neutral colour.

Code	Cap.	Grad.	Height	Ø mouth
CGD052	50 mL	10 mL	77 mm	24 mm
CGD053	100 mL	20 mL	89 mm	24 mm
CGD054	250 mL	25 mL	126 mm	34.5 mm
CGD055	500 mL	50 mL	161 mm	34.5 mm
CGD056	1000 mL	100 mL	201 mm	45 mm
CGD057	2000 mL	100 mL	250 mm	45 mm

Graduated flasks, PE

Kartell

1| Neck and thread according to DIN 13316 and 168.

Code	GL	Cap.	Grad.	Ø mouth	Height
CGD023	32	50 mL	10 mL	24 mm	88 mm
CGD024	32	100 mL	20 mL	24 mm	105 mm
CGD025	45	250 mL	25 mL	38 mm	140 mm
CGD026	45	500 mL	100 mL	38 mm	170 mm
CGD027	63	1000 mL	100 mL	55 mm	206 mm
CGD028	63	2000 mL	100 mL	55 mm	252 mm

Graduated flasks, PP

Kartell

1| Neck and thread according to DIN 13316 and 168.

Code	GL	Cap.	Grad.	Ø mouth	Height
CGD029	32	50 mL	10 mL	24 mm	88 mm
CGD030	32	100 mL	20 mL	24 mm	105 mm
CGD031	45	250 mL	25 mL	38 mm	140 mm
CGD032	45	500 mL	100 mL	38 mm	170 mm
CGD033	63	1000 mL	100 mL	55 mm	206 mm
CGD034	63	2000 mL	100 mL	55 mm	252 mm

CGD - Wide mouth, plastic

Wide neck bottles PE

ENDO plasticware

1| Made of low-density polyethylene, neutral colour.

Code	GL	Cap.	Ø mouth	Height
CGD066	32	50 mL	24 mm	77 mm
CGD068	32	100 mL	24 mm	92 mm
CGD067	40	250 mL	31 mm	123 mm
CGD065	50	500 mL	38,5 mm	153 mm
CGD069	65	1000 mL	50 mm	202 mm
CGD070	65	2000 mL	50 mm	243 mm

Wide neck bottles, PP

ENDO plasticware

1| Made of low-density polyethylene, neutral colour.

Code	GL	Cap.	Ø mouth	Height
CGD071	32	50 mL	24 mm	77 mm
CGD072	32	100 mL	24 mm	92 mm
CGD073	40	250 mL	31 mm	123 mm
CGD074	50	500 mL	38.5 mm	153 mm
CGD075	65	1000 mL	50 mm	202 mm
CGD076	65	2000 mL	50 mm	243 mm

VITLAB

1| In low-density polyethylene, neutral color.

Code	GL	Cap.	Neck diameter	Height
CGD532	32	50 mL	38 mm	80 mm
CGD533	32	100 mL	48 mm	94 mm
CGD534	40	250 mL	62 mm	126 mm
CGD535	50	500 mL	76 mm	155 mm
CGD536	65	1000 mL	93 mm	208 mm
CGD537	65	2000 mL	120 mm	246 mm

CGD - Wide mouth, plastic

Bottles wide neck secure cap HDPE

Kartell

1| Screw sealed with tape opening

Code	Cap.	Ø mouth	Height
CGD040	250 mL	60 mm	137 mm
CGD041	500 mL	74 mm	177 mm
CGD042	1000 mL	90 mm	229 mm

Bottles wide neck secure cap HDPE

ENDO plasticware

1| Made of high density polypropylene, neutral color.

Code	Cap.	Diameter	Height	Ø mouth
CGD049	250 mL	60 mm	140 mm	30 mm
CGD050	500 mL	74 mm	179 mm	30 mm
CGD051	1000 mL	90 mm	218 mm	30 mm

PE bottles

ENDO plasticware

1| High density polythylene bottles. Appoved UN for transportation of dangerous goods. Homologation U.N. 1H1/X1,3. Self sealing cap.

Code	Cap.	Diameter	Height	Ø mouth
CGD078	250 mL	60 mm	127 mm	41 mm
CGD079	500 mL	69 mm	186 mm	41 mm
CGD080	1000 mL	89 mm	240 mm	41 mm

CGD - Wide mouth, plastic

Wide-mouth bottle, PE-HD with screw cap

VITLAB

1| Space-saving thanks to the square cross-section and the upward-stretched shoulder. Wide neck for easy filling, also ideal for powders and pasty materials.

Code	GL	Volume	Height	Dimensions
CGD504	32	100 mL	78 mm	46x46 mm
CGD505	45	250 mL	83 mm	80x80 mm
CGD506	45	500 mL	120 mm	90x90 mm
CGD507	63	1000 mL	168 mm	90x90 mm

Wide-mouth bottle, PE-LD, with screw cap

VITLAB

1| Wide neck for easy filling, also ideal for powders and pasty materials. Soft material with good resilience.

Code	GL	Volume	Height	Dimensions
CGD508	32	50 mL	87 mm	39 mm
CGD509	32	100 mL	94 mm	47 mm
CGD510	45	250 mL	146 mm	58 mm
CGD511	45	500 mL	166 mm	76 mm

Reagent bottle, wide-mouth, PP

VITLAB

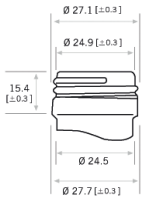
1| Wide neck for easy filling, also ideal for powders and pasty materials. Soft material with good resilience.

Code	GL	Volume	Height	Dimensions
CGD515	32	100 mL	96 mm	55 mm
CGD517	45	500 mL	172 mm	87 mm
CGD518	45	1000 mL	197 mm	105 mm
CGD520	45	2000 mL	241 mm	131 mm
CGD521	63	2000 mL	243 mm	131 mm
CGD522	45	5000 mL	315 mm	178 mm

CGG - Narrow mouth, glass - DIN 28

DIN28, glass

DIN28, dimensions thread



1| Made of type III soda-lime glass. Fulfills the requirements of the European and United States Pharmacopoeia.

Code	Volume	Height	Ø base	Lot
Transparent				
CGG001	30 mL	67 mm	35 mm	**108**
CGG002	60 mL	94 mm	39 mm	**88**
CGG003	125 mL	114 mm	49 mm	**104**
CGG004	250 mL	143 mm	62 mm	**60**
CGG005	500 mL	177 mm	77 mm	**30**
CGG006	1000 mL	216 mm	97 mm	**20**
Amber				
CGG007	30 mL	67 mm	35 mm	**110**
CGG008	60 mL	94 mm	39 mm	**100**
CGG009	100 mL	114 mm	49 mm	**70**
CGG010	125 mL	114 mm	49 mm	**100**
CGG011	250 mL	143 mm	62 mm	**60**
CGG012	500 mL	177 mm	77 mm	**35**
CGG013	1000 mL	216 mm	97 mm	**20**

Srew cap with seal DIN28

1| Caps with polyethylene seal, in various colours.

Code	Screw colour	Seal colour	Lot
CGL010	Black	Black	**100**
CGL011	White	Red	**100**
CGL012	Blue	White	**100**
CGL013	Red	White	**100**
CGL014	Green	White	**100**
CGL015	Yellow	White	**100**

CGL - Stoppers for glass bottles

Safety screw-cap for glass bottle DIN28

Code	Description	Lot
CGL009	Safety screw-cap	**100**

Dropper plastic stopper

1| Made of high-density polyethylene suitable for the food industry (the tube can be cut to fit bottles from 1000 mL to 30 mL). Tamper- evident.

Code	Colour
CGL019	Blue

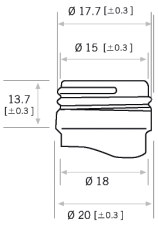
Stopper, tube and teat

1| Polyethylene screw with seal, silicone nipple and glass tube.

Code	For bottles of
CGL020	30 mL
CGL021	60 mL
CGL022	125 mL

CGG - Narrow mouth, glass - DIN 18

DIN18, features



1| Made of type III soda-lime glass.
2| Fulfills the requirements of the European and United States Pharmacopoeia.

CGG - Narrow mouth, glass - DIN 18

DIN18, transparent and amber glass

Code	Volume	Height	Ø base	Lot
Transparent				
CGG014	5 mL	50 mm	22 mm	**255**
CGG015	10 mL	58 mm	25 mm	**192**
CGG016	15 mL	65 mm	28 mm	**156**
CGG017	30 mL	79 mm	33 mm	**110**
CGG018	50 mL	92 mm	37 mm	**117**
CGG019	100 mL	112 mm	44 mm	**70**
Amber				
CGG020	5 mL	50 mm	22 mm	**255**
CGG021	10 mL	58 mm	25 mm	**192**
CGG022	15 mL	65 mm	28 mm	**156**
CGG023	30 mL	79 mm	33 mm	**110**
CGG024	50 mL	92 mm	37 mm	**88**
CGG025	100 mL	112 mm	44 mm	**70**

DIN18, cobalt blue and green glass

Code	Volume	Height	Ø base	Lot
Cobalt blue				
CGG026	5 mL	50 mm	22 mm	**255**
CGG027	10 mL	58 mm	25 mm	**192**
CGG028	15 mL	65 mm	28 mm	**156**
CGG029	30 mL	79 mm	33 mm	**110**
CGG053	50 mL	92 mm	37 mm	**88**
CGG054	100 mL	112 mm	44 mm	**70**
Green				
CGG030	5 mL	50 mm	22 mm	**255**
CGG031	10 mL	58 mm	25 mm	**192**
CGG032	15 mL	65 mm	28 mm	**156**
CGG033	30 mL	79 mm	33 mm	**110**
CGG059	50 mL	92 mm	37 mm	**88**
CGG060	100 mL	112 mm	44 mm	**70**

CGL - Stoppers for glass bottles

Safety stopper DIN18

1 | Made of polyethylene. Kid safety stopper with seal. Inner dropper

Code	Description
CGL001	Safety stopper DIN18, inner dropper, white
CGL002	Safety stopper DIN18, inner dropper, yellow
CGL036	Safety stopper DIN18, inner dropper, black

Stopper DIN18, inner dropper, white

1 | Made of polyethylene. Stopper with seal. Internal dropper.

Code	Description
CGL023	Stopper DIN18, inner dropper, white

Dropping stopper DIN18, white

1 | Polyethylene screw with seal. Silicone nipple, glass tube.

Code	Description	Colour	Lot
CGL003	For bottles 5 mL	White	**100**
CGL024	For bottles 5 mL	Black	**100**
CGL004	For bottles 10 mL	White	**100**
CGL025	For bottles 10 mL	Black	**100**
CGL005	For bottles 15 mL	White	**100**
CGL026	For bottles 15 mL	Black	**100**
CGL006	For bottles 30 mL	White	**100**
CGL027	For bottles 30 mL	Black	**100**
CGL007	For bottles 50 mL	White	**100**
CGL028	For bottles 50 mL	Black	**100**
CGL008	For bottles 100 mL	White	**100**
CGL029	For bottles100 mL	Black	**100**

Cap for DIN18 flask, PP

Code	Colour
CGL030	Black

CGL - Stoppers for glass bottles

Bakelite stopper for screw cap bottle

Code	Joint	Diameter
CGL508	Tresylene	18 mm
CGL509	Tresylene	28 mm
CGL510	Tresylene	30 mm
CGL511	Tresylene	35 mm
CGL512	Tresylene	38 mm
CGL513	Tresylene	40 mm

CGJ - Narrow mouth, plastic

Bottle narrow neck DIN28 PET

1| Light and resistant material. High wear and corrosion resistance.

Code	Volume	Diameter	Height
Transparent			
CGJ058	100 mL	42 mm	105 mm
CGJ059	120 mL	46 mm	113 mm
CGJ061	250 mL	55 mm	145 mm
CGJ062	500 mL	68 mm	182 mm
CGJ063	1000 mL	85 mm	220 mm
Amber			
CGJ064	100 mL	42 mm	105 mm
CGJ065	120 mL	46 mm	113 mm
CGJ066	150 mL	47 mm	123 mm
CGJ067	250 mL	55 mm	145 mm
CGJ068	500 mL	68 mm	182 mm
CGJ069	1000 mL	85 mm	220 mm

Graduated bottle, PE

Code.	Cap.	Grad.	Height	Ø mouth
CGJ001	50 mL	10 mL	70 mm	18,5 mm
CGJ002	125 mL	20 mL	107 mm	18,5 mm
CGJ003	250 mL	25 mL	131 mm	23 mm
CGJ004	500 mL	50 mL	157 mm	23 mm
CGJ005	1000 mL	100 mL	205 mm	33 mm
CGJ057	2000 mL	100 mL	112 mm	33 mm

CGJ - Narrow mouth, plastic

Graduated narrow mouth bottle, LDPE

1| Made of low density polyethylene. Neutral colour.

Code.	Cap.	Grad.	Height	Ø mouth
CGJ033	50 mL	10 mL	76 mm	18,5 mm
CGJ034	125 mL	20 mL	115 mm	18,5 mm
CGJ035	250 mL	25 mL	138 mm	23 mm
CGJ036	500 mL	50 mL	165 mm	23 mm
CGJ037	1000 mL	100 mL	213 mm	34,5 mm
CGJ038	2000 mL	100 mL	273 mm	34,5 mm

Graduated narrow mouth bottle, PP

1| Neck and threads according to DIN 13316 and 168.

Code	GL	Cap.	Grad.	Ø mouth
CGJ006	18	50 mL	10 mL	13 mm
CGJ007	18	100 mL	20 mL	13 mm
CGJ008	25	250 mL	25 mL	19 mm
CGJ009	25	500 mL	100 mL	19 mm
CGJ010	32	1000 mL	100 mL	23 mm

Grey bottles, PE

1| Totally opaque. With lid under the screw to guarantee a watertight seal. Holes on the back for security seals or labels.

Code	Cap.	Grad.	Ø mouth	Height
CGJ016	50 mL	10 mL	18,5 mm	70 mm
CGJ017	125 mL	20 mL	18,5 mm	107 mm
CGJ018	250 mL	25 mL	23 mm	131 mm
CGJ019	500 mL	50 mL	23 mm	157 mm
CGJ020	1000 mL	100 mL	33 mm	205 mm
CGJ021	2000 mL	100 mL	33 mm	266 mm

CGJ - Narrow mouth, plastic

Grey bottle, PE

1| Made of high density polyethylene. Dark grey colour.

Code	Capacity	Diameter	Ø mouth	Height
CGJ052	250 mL	60 mm	23 mm	138 mm
CGJ053	500 mL	74 mm	23 mm	165 mm
CGJ054	1000 mL	93 mm	34,5 mm	213 mm
CGJ055	2000 mL	116 mm	34,5 mm	273 mm

Narrow neck bottle, HDPE

Code	Cap.	Grad.	Ø mouth	Height
CGJ022	50 mL	36 mm	17,5 mm	84 mm
CGJ023	100 mL	44 mm	17,5 mm	101 mm
CGJ024	250 mL	60 mm	22,5 mm	136 mm
CGJ025	500 mL	74 mm	22,5 mm	170 mm
CGJ026	1000 mL	90 mm	22,5 mm	222 mm

Bottle without cap, LDPE

1| Neutral colour. Depending on the Screw used they can be used as single bottle, wash bottle and dropper bottle.

Code	GL	Cap.	Ø	Ø mouth	Height
CGJ047	18	50mL	40 mm	13 mm	84 mm
CGJ048	18	100mL	45 mm	13 mm	102 mm
CGJ056	25	250mL	60 mm	18 mm	138 mm
CGJ049	25	500mL	75 mm	18 mm	169 mm
CGJ050	28	1000mL	95 mm	21 mm	212 mm
CGJ051	28	2000mL	120 mm	21 mm	260 mm

CGJ - Narrow mouth, plastic

Bottles narrow neck without cap PE

1| They can be sealed with the corresponding holes at the base of the neck. Neck and thread according to DIN 13316 and 168.

Code	GL	Volume	Grad.	Ø mouth
CGJ031	18	50 mL	10 mL	13 mm
CGJ027	18	100 mL	20 mL	13 mm
CGJ032	25	250 mL	25 mL	19 mm
CGJ028	25	500 mL	100 mL	19 mm
CGJ029	32	1000 mL	100 mL	23 mm
CGJ030	32	2000 mL	500 mL	23 mm

With secure cap, HDPE

1| Made of high density polyethylene. Neutral color.

Code	Capacity	Diameter	Ø mouth	Height
CGJ039	250 mL	60 mm	22 mm	136 mm
CGJ040	500 mL	74 mm	22 mm	170 mm
CGJ041	1000 mL	90 mm	22 mm	222 mm

Graduated narrow mouth bottle, PE

1| Made of low density polyethylene. Neutral colour.

Code	Capacity	Grad.	Ø mouth	Height
CGJ033	50 mL	10 mL	18,5 mm	76 mm
CGJ034	100 mL	20 mL	18,5 mm	115 mm
CGJ035	250 mL	25 mL	23 mm	138 mm
CGJ036	500 mL	50 mL	23 mm	165 mm
CGJ037	1000 mL	100 mL	34,5 mm	213 mm
CGJ038	2000 mL	100 mL	34,5 mm	273 mm

CGN - Stoppers for plastic bottles

Screw caps , HDPE

Kartell

1| Provided with holes for security seals. Manufactured in HDPE.

Code	GL
CGN001	18
CGN002	25
CGN003	32
CGN004	45
CGN005	63

Screw caps, PP

Kartell

1| Provided with holes for security seals. Made of PP.

Code	GL
CGN006	18
CGN007	25
CGN008	32
CGN009	45
CGN010	63

Screw caps, PP

ENDO plasticware

1| Polyethylene.

Code	GL
CGN011	18
CGN012	25
CGN013	28

CGQ - PTFE

Bottle PTFE

ENDO plasticware

1| Excellent chemical and mechanical resistance. With stand temperatures up to +260ºC and for short intervals up to +340ºC

Code	Cap.	Ø mouth	Height
CGQ005	25 mL	35 mm	77 mm
CGQ006	100 mL	51 mm	35 mm
CGQ007	250 mL	68 mm	41 mm
CGQ008	500 mL	80 mm	41 mm
CGQ009	1000 mL	100 mm	48 mm

Kartell

1| They can be used safely and continuously at temperatures from -270ºC to 250 ºC. Very resistant to acids and very aggressive mixtures.
2| With lid under the Screw to guarantee a watertight seal.

Code	Cap.	Ø mouth	Height
CGQ001	100 mL	35,24 mm	89,82 mm
CGQ002	250 mL	42 mm	118,40 mm
CGQ003	500 mL	51,15 mm	147,15 mm
CGQ004	1000 ml	57 mm	184.21 mm

CGR - Cell culture flask

ENDO plasticware

NEW

1| High clarity, 100% virgin polystyrene. Frosted writing and clear graduations. Packaged in zip bags. Stackable, sterilized by electron beam. Clear lot number for batch traceability. Non-pyrogenic, DNase/RNase free.

Code	Cap.	Cap	Growth area	Packaging
CGR001	50 mL	Vent	25 cm^2	B/200
CGR002	50 mL	Standard	25 cm^2	B/200
CGR003	250 mL	Vent	75 cm^2	B/100
CGR004	250 mL	Standard	75 cm^2	B/100
CGR005	600 mL	Vent	175 cm^2	B/100
CGR006	600 mL	Standard	175 cm^2	B/50

CHD - Wide mouth, plastic

PP bottle,PP hexagonal stopper

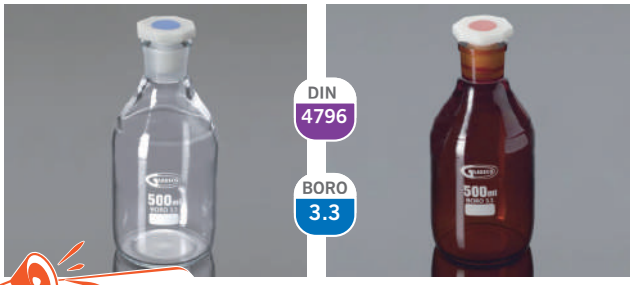
VITLAB

Code	Capacity	Diameter	Height	Neck
CHD501	100 mL	55 mm	111 mm	NS 29/32
CHD503	500 mL	87 mm	183 mm	NS 45/40
CHD504	1000 mL	108 mm	214 mm	NS 60/46

CHG - Narrow mouth, glass

Glass bottle, plastic stopper

Glassco



1| These bottles comes with ground joint and PE Stopper. Clear scale Graduation for easy reading. These bottles are mechanically strong and chemical resistant

Code	Glass	Volume	Joint
CHG050	Transparent	50 mL	14/23
CHG056	Amber	50 mL	14/23
CHG051	Transparent	100 mL	14/23
CHG057	Amber	100 mL	14/23
CHG052	Transparent	250 mL	19/26
CHG058	Amber	250 mL	19/26
CHG053	Transparent	500 mL	24/29
CHG059	Amber	500 mL	24/29
CHG054	Transparent	1000 mL	29/32
CHG060	Amber	1000 mL	29/32
CHG055	Transparent	2000 mL	29/32
CHG061	Amber	2000 mL	29/32

CHG - Narrow mouth, glass

Glass bottle, plastic stopper

ENDO glassware

Code	Glass	Joint	Cap.	Ø base	h.	Lot
CHG001	Transparent	35/20	100 mL	54 mm	95 mm	**12**
CHG005	Amber	19/15	100 mL	54 mm	95 mm	**12**
CHG002	Transparent	40/24	250 mL	74 mm	125 mm	**6**
CHG006	Amber	22/22	250 mL	74 mm	125 mm	**6**
CHG003	Transparent	28/24	500 mL	88 mm	165 mm	**6**
CHG007	Amber	28/24	500 mL	88 mm	165 mm	**6**
CHG004	Transparent	29/29	1000 mL	112 mm	200 mm	**6**
CHG008	Amber	27/26	1000 mL	112 mm	200 mm	**6**

CHJ - Wide mouth, plastic

PP bottle,PP hexagonal stopper

VITLAB

Code	Capacity	Diameter	Height	Neck
CHJ501	100 mL	52 mm	106 mm	NS 14/23
CHJ503	500 mL	87 mm	172 mm	NS 24/29
CHJ504	1000 mL	108 mm	214 mm	NS 29/32

CJC - Dropping bottles, glass

Dropping bottle with pipette

SIMAX CZECH REPUBLIC

Code	Glass	Cap.	Ø	Joint
CJC001	Transparent	50 mL	41,5 mm	14/15
CJC002	Amber	50 mL	41,5 mm	14/15
CJC003	Transparent	100 mL	51,5 mm	14/23
CJC004	Amber	100 mL	51,5 mm	1423
CJC005	Amber	250 mL	69 mm	19/26

CJF - Dropping bottles, plastic

Ranvier dropper bottle

Kartell

1| PE pipe and rubber suction pump

Code	Cap.	Ø	Height
CJF001	50 mL	35 mm	96 mm
CJF002	100 mL	43 mm	115 mm
CJF003	250 mL	60 mm	140 mm
CJF004	500 mL	75 mm	180 mm
CJF005	1000 mL	95 mm	220 mm

Dispenser, PE

Kartell

1| The transparent PMP dispenser can be moved along the tube.
2| Once the desired level is reached, the pressure is reduced and the excess liquid returns to the bottle itself.

Code	Cap. bottle	Cap. dispenser
CJF006	250 mL	25 mL
CJF007	500 mL	25 mL
CJF008	1000 mL	25 mL
CJF009	250 mL	50 mL
CJF010	500 mL	50 mL
CJF011	1000 mL	50 mL

Dispenser, HDPE-PP

Kartell

Code	Capacity	Diameter	Height
CJF012	500 mL	77 mm	229 mm

CJF - Dropping bottles, plastic

Dropping bottle PE-LD

VITLAB

Code	Thread GL	Volume	Height	Diameter
CJF506	18	50 mL	117 mm	37 mm
CJF507	18	100 mL	142 mm	43 mm
CJF508	25	250 mL	183 mm	58 mm
CJF509	25	500 mL	228 mm	74 mm
CJF510	32	1000 mL	269 mm	92 mm

CKB - Wide mouth

Dropping bottle PE-LD

Kartell

1| Made of polyethylene. Graduated. Cap designed to avoid dripping. DIN: GL45

Code	Cap.	Colour	Grad.	Ø mouth
CKB001	250 mL	Neutral	25 mL	38 mm
CKB002	250 mL	Blue	25 mL	38 mm
CKB003	250 mL	Yellow	25 mL	38 mm
CKB004	250 mL	Red	25 mL	38 mm
CKB005	500 mL	Neutral	100 mL	38 mm
CKB006	500 mL	Blue	100 mL	38 mm
CKB007	500 mL	Yellow	100 mL	38 mm
CKB008	500 mL	Red	100 mL	38 mm

Wash bottle labeled, LDPE

ENDO plasticware

1| The bottle print includes the CAS (Chemical Abstract Service) number, the NFPA (National Fire Protection Association) codes and symbols, protective equipment symbols and hazard phrases.

Code	Cap.	Impression
CKB011	500 mL	Methanol
CKB012	500 mL	Ethanol
CKB013	500 mL	Isopropanol
CKB014	500 mL	Acetone
CKB015	500 mL	Distilled water

CKB - Wide mouth

Wash-bottle, with imprint, PE-LD

VITLAB

1| With safety markings. Bottle made of PE-LD or PP, tube made of PP. Complies with EC Regulation No. 1272 (2008/SGH), namely, marking of :
- chemical product in English, French, German and Spanish
- raw chemical formula, CAS number, hazard symbol, approval statement
- hazard statement (H-phrase), safety statement (P-phrase), NFPA code

Code	Volume	Thread GL	Impression	Diameter
CKB504	250 mL	GL45	Distilled water	12 mm
CKB505	250 mL	GL45	Methanol	12 mm
CKB506	250 mL	GL45	Isopropanol	12 mm
CKB507	250 mL	GL45	Ethyl acetate	12 mm
CKB508	250 mL	GL45	Ethanol	12 mm
CKB529	250 mL	GL45	Acetone	12 mm
CKB509	500 mL	GL45	Distilled water	12 mm
CKB510	500 mL	GL45	Methanol	12 mm
CKB511	500 mL	GL45	Propanol 2	12 mm
CKB512	500 mL	GL45	Ethyl acetate	12 mm
CKB513	500 mL	GL45	Ethanol	12 mm
CKB514	500 mL	GL45	Dichloromethane	6 mm
CKB515	500 mL	GL45	Dimethyformamide	6 mm
CKB516	500 mL	GL45	Heptane	6 mm
CKB517	500 mL	GL45	Hexane	6 mm
CKB518	500 mL	GL45	THF	6 mm
CKB519	500 mL	GL45	Toluene	6 mm
CKB520	500 mL	GL45	Xylene	6 mm
CKB521	500 mL	GL45	Acetonitrile	6 mm
CKB522	500 mL	GL45	Acetic acid	6 mm
CKB531*	500 mL	GL45	Methylethylcetone	6 mm
CKB523	1000 mL	GL63	Distilled water	12 mm
CKB524	1000 mL	GL63	Methanol	12 mm
CKB525	1000 mL	GL63	Propanol 2	12 mm
CKB526	1000 mL	GL63	Ethyl acetate	12 mm
CKB527	1000 mL	GL63	Ethanol	12 mm
CKB532*	1000 mL	GL63	Acetone	12 mm

** PP*

Wash-bottle, PP

VITLAB

1| Precise jet and optimized liquid reflux thanks to the fine, stretched and smooth tip of the tube. All made of PP..

Code	Volume	GL	Height	Diameter
CKB534	250 mL	45	146 mm	58 mm
CKB536	500 mL	45	166 mm	76 mm
CKB538	1000 mL	63	226 mm	91 mm

CKD - Narrow mouth

Wash bottle, PE

ENDO plasticware

1| LDPE, tube with removable tip.

Code	Volume	Ø	Height
CKD006	100 mL	42 mm	218 mm
CKD007	250 mL	58 mm	213 mm
CKD008	500 mL	70 mm	218 mm
CKD009	1000 mL	90 mm	270 mm

Kartell

1| Tube with removable tip.

Code	Volume	Ø	Height
CKD001	50 mL	35 mm	96 mm
CKD002	100 mL	43 mm	115 mm
CKD003	250 mL	60 mm	140 mm
CKD004	500 mL	75 mm	180 mm
CKD005	1000 mL	95 mm	220 mm

Wash bottle, PE

Kartell

1| The liquid is released by a slight air pressure when blowing through the right straw.

Code	Capacity	Ø	Height
CKD010	250 mL	60 mm	140 mm
CKD011	500 mL	75 mm	180 mm
CKD012	1000 mL	95 mm	220 mm

CKD - Narrow mouth

Wash bottle, PE

Kartell

1| Made of polyethylene with graduation in relief. Liquid outlet by pressure

Code	Capacity	Ø	Height
CKD016	250 mL	60 mm	100 mm
CKD017	500 mL	70 mm	210 mm
CKD018	1000 mL	90 mm	245 mm

Wash-bottle, colour coded, PE-LD

VITLAB

1| Liquid exit obtained by a slight air pressure obtained by blowing into the straight stem.

Code	Color	Volume	GL	Height	Diameter
CKD504	Red	250 mL	25	135 mm	58 mm
CKD505	Green	250 mL	25	180 mm	74 mm
CKD506	Yellow	250 mL	25	135 mm	58 mm
CKD507	Blue	250 mL	25	180 mm	74 mm
CKD508	Red	500 mL	25	135 mm	58 mm
CKD509	Green	500 mL	25	180 mm	74 mm
CKD510	Yellow	500 mL	25	135 mm	58 mm
CKD511	Blue	500 mL	25	180 mm	74 mm
CKD555*	Set	500 mL	25	180 mm	74 mm

** Set: red, green, yellow, blue (1 item each)*

Wash-bottle, with imprint, PE-LD

VITLAB

Code	Volume	GL	Height	Diameter
CKD512	250 mL	25	135 mm	58 mm
CKD513	500 mL	25	180 mm	74 mm
CKD514	1000 mL	32	221 mm	92 mm

CKD - Narrow mouth

VITsafe safety wash-bottle, narrow-mouth, PE-LD

VITLAB

1| With safety markings. Bottle made of PE-LD or PP, tube made of PP. Complies with EC Regulation No. 1272 (2008/SGH), namely, marking of :
- chemical product in English, French, German, Spanish, French
- raw chemical formula, CAS number, hazard symbol, approval statement
- hazard statement (H-phrase), safety statement (P-phrase), NFPA code

Code	Volume	GL	Impression	Diameter
CKD519	250 mL	GL25	Distilled water	58 mm
CKD520	250 mL	GL25	Methanol	58 mm
CKD521	250 m	GL25	Propanol	58 mm
CKD522	250 mL	GL25	Ethil Acetate	58 mm
CKD523	250 mL	GL25	Ethanol	58 mm
CKD524	500 mL	GL25	Distilled water	74 mm
CKD525	500 mL	GL25	Methanol	74 mm
CKD526	500 mL	GL25	Isopropanol	74 mm
CKD527	500 mL	GL25	Ethyl acetate	74 mm
CKD528	500 mL	GL32	Ethanol	74 mm
CKD529	500 ml	GL25	Dichloromethane	74 mm
CKD530	500 ml	GL25	N-N Dimetylformamide	74 mm
CKD531	500 mL	GL25	Heptane	74 mm
CKD532	500 mL	GL25	Hexane	74 mm
CKD533	500 mL	GL25	Tetrahydrofuran (THF)	74 mm
CKD534	500 mL	GL25	Toluene	74 mm
CKD535	500 mL	GL25	Xylene	74 mm
CKD536	500 mL	GL25	Acetonenitrile	74 mm
CKD537	500 mL	GL25	Acetic acid	74 mm
CKD538	1000 mL	GL32	Distilled water	92 mm
CKD539	1000 mL	GL32	Methanol	92 mm
CKD540	1000 mL	GL32	Propanol	92 mm
CKD541	1000 mL	GL32	Ethyl Acetate	92 mm
CKD542	1000 mL	GL32	Ethanol	92 mm
CKD543*	250 mL	GL25	Acetone	58 mm
CKD544*	500 mL	GL25	Acetone	58 mm
CKD545*	500 mL	GL25	Methyl Ethyl Ketone	58 mm

**PP*

Wash-bottle, PE-LD/PP

VITLAB

1| Unmarked. Precise jet and optimised liquid reflux thanks to the fine, smooth, stretched tip of the tube. Tube and cap made of PP. Bottle made of PE-LD.

Code	Volume	GL	Height	Diameter
CKD547	50 mL	18	73 mm	37 mm
CKD548	100 mL	18	95 mm	43 mm
CKD549	250 mL	25	135 mm	58 mm
CKD551	500 mL	25	180 mm	74 mm
CKD553	1000 mL	32	221 mm	92 mm

CKG - Spray bottles

Spray bottle

Kartell

Code	Cap.	Ø	Ø mouth
CKG001	1.000 mL	90 mm	22,5 mm

Spray bottle PP

VITLAB

1| White or transparent PP bottle. Spray head with effortlessly operable solid trigger and adjustable spray nozzle from very fine spraying (atomisation) to a precise jet by simply turning the nozzle. Ideally suited for spraying cleaning agents or disinfectants as well as for thin layer chromatography applications.

Code	Material	Volume
CKG501	PP	400 mL
CKG502	PE	850 mL
CKG503	PP transparent	1000 mL

CKJ - Integral model

Integral wash bottle, PE

Kartell

1| With tube molded integrally to the bottle.

Code	Cap.	Diameter	Height
CKJ001	250 mL	32	140 mm
CKJ002	500 mL	32	178 mm

CKL - Stoppers

Wash bottle screw caps

Kartell

1| For standardized narrow neck bottles.

Code	DIN
CKL001	18
CKL002	25
CKL003	32

ENDO plasticware

1| For standardized narrow neck bottles.

Code	DIN
CKL004	18
CKL005	25
CKL006	28

Short spout dropping

ENDO plasticware

1| For standardized narrow neck bottles.

Code	Spout type	GL
CKL007	Short	18
CKL008	Short	25
CKL009	Long	18
CKL010	Long	25
CKL011	Long	28

PE short spout dropping cap

Kartell

1| They are used for standardized narrow neck vials. They have a polyethylene closing cap.

Code	GL	Spout lenght
CKL012	18	16 mm
CKL013	25	19 mm
CKL014	32	19 mm

CKL - Stoppers

Long spout

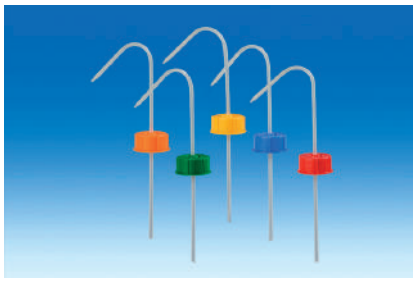
Kartell

1| They are used for standardized narrow neck vials. They have a polyethylene closing cap.

Code	GL	Spout lenght
CKL015	18	40 mm
CKL016	25	41 mm
CKL017	32	42 mm

VENT-CAP wash bottle cap, PP

VITLAB



Code	For bottles	GL	Colour
CKL502	500 mL	45	Red
CKL503	500 mL	45	Yellow
CKL504	500 mL	45	Orange
CKL505	500 mL	45	Green
CKL506	500 mL	45	Blue

CLB - With dispenser, glass

Irrigator barel shape with bent stopcock

BORO 3.3

Code	Ground	Volume	Ø lid
CLB002	29/32	5 L	100 mm
CLB003	29/32	10 L	127 mm
CLB004	29/32	20 L	160 mm

Accesories, irrigator

Code	Description
CLB005	Stopcock RIN 29/32
CLB006	Lid for irrigator 5L

CLD - With dispenser, plastic

Round HDPE aspirator bottle with tap

ENDO plasticware

1| Made of high-density polyethylene. Supplied with a 3/4" tap that fits the drum with a 12 mm deep thread.

Code	Cap.	Ø int.	Height	Ø mouth
CLD013	5 L	167 mm	355 mm	51 mm
CLD014	10 L	212 mm	430 mm	51 mm
CLD015	25 L	275 mm	580 mm	80 mm
CLD016	50 L	350 mm	715 mm	80 mm

Tap for storgae bottles

Code	Description
CLD017	3/4" threaded.

Kartell

1| Very resistant drums with a 2 mm thick wall. Supplied with a 3/4" tap.

Code	Cap.	Ø int.	Ø ext.
CLD001	5 L	52,5 mm	62, 5 mm
CLD002	10 L	52,5 mm	62, 5 mm
CLD003	25 L	79,5 mm	95,5 mm
CLD004	50 L	79,5 mm	95,5 mm

Tap for storgae bottles

Code	Description
CLD005	English type with 3/4" taps

Kartell

1| Made of high-density polyethylene, they have a handle for transport.

Code	Cap.	Dimensions
CLD006	10 L	380x300x160 mm
CLD007	20 L	470x370x180 mm

Spigot for tanks

Code	Ø threaded
CLD008	36,5 mm

CLD - With dispenser, plastic

Rectangular tank with spigot, HDPE

ENDO plasticware

Code	Volume	Dim. (LxAxH)	Ø mouth
CLD018	10 L	28x14x34 mm	44 mm
CLD019	20 L	32x18x45 mm	46 mm

CLG - Without dispenser, plastic

Wide neck bottle, HDPE

ENDO plasticware

1| Equipped carrying handles and cap with holes for tamper-evident seal.

Code	Cap.	Ø	Height	Ø mouth
CLG009	5 litres	167 mm	350 mm	85 mm
CLG010	10 litres	210 mm	420 mm	100 mm

Kartell

1| With handle and cap can be wired down for safety.

Code	Cap.	Ø int.	Ø ext.
CLG014	5 L	84 mm	94 mm
CLG005	10 L	98 mm	108 mm

Wide-neck drum, HDPE

Kartell

Code	Cap.	Ø bottle	Height
CLG001	5 L	170 mm	345 mm
CLG002	10 L	210 mm	425 mm
CLG003	25 L	280 mm	565 mm
CLG004	50 L	350 mm	700 mm

CLG - Without dispenser, plastic

Stackable drum, HDPE

ENDO plasticware

1| Made of high density polyethylene. Neutral colour.
2| Comply with regulations for the transport of dangerous substances; ADR-RID (land), IMO-IMDG (sea) and IATA-ICAO (air).

Code	Cap.	GL	Dimensions
CLG011	5 L	51	163x187x236 mm
CLG012	10 L	51	187x227x320 mm
CLG013	20 L	51	236x288x380 mm

Kartell

1| Made of high-density polyethylene. They have a resistant handle for transport and a safety closing screw according to DIN recommendations.
2| They comply with the regulations for the transport of dangerous substances; ADR-RID (land), IMO-IMDG (sea) and IATA-ICAO (air).

Code	Cap.	GL	Dimensions
CLG006	2 L	45	175x155x115 mm
CLG007	5 L	51	250x195x150 mm
CLG015	10 L	51	320x225x195mm
CLG008	20 L	51	370x295x245 mm

CMB - Injection

Injection vial, clear tube glass

1| Made of type I borosilicate glass. Complies with European and United States Pharmacopoeia.

Code	DN	Volume	Ø base	Lot
CMB014	13	2 mL	16 mm	**323**
CMB015	13	4 mL	16 mm	**400**
CMB016	20	6 mL	22 mm	**266**
CMB017	20	8 mL	22 mm	**266**
CMB018	20	10 mL	24 mm	**238**
CMB019	20	12 mL	24 mm	**288**
CMB020	20	15 mL	24 mm	**238**
CMB021	20	20 mL	30 mm	**135**
CMB022	20	30 mL	30 mm	**135**

CMB - Injection

Injection vial transparent

1| Made of soda-lime glass type II, III. Complies with European and United States Pharmacopoeia.

Code	Glass	Volume	Ø base	Lot
CMB002	Transp.	8 mL	23 mm	**234**
CMB003	Transp.	10 mL	25 mm	**192**
CMB004	Transp.	15 mL	26.5 mm	**165**
CMB005	Transp.	20 mL	32 mm	**120**
CMB006	Transp.	30 mL	36 mm	**92**
CMB007	Transp.	50 mL	42.5 mm	**84**
CMB008	Transp.	100 mL	51.6 mm	**63**
CMB009	Amber	10 mL	25 mm	**192**
CMB010	Amber	20 mL	32 mm	**120**
CMB011	Amber	30 mL	36 mm	**92**
CMB012	Amber	50 mL	42.5 mm	**84**
CMB013	Amber	100 mL	51.6 mm	**63**

CML - Closures for vials

Rubber closure for injection

Code	Description
CML010	Rubber closure for injection vial, 20 mm
CML011	Injection vial cap, 20 mm
CML012	Flip-off lid for injection vial , 20 mm
CML013	Rubber closure for injection vial, 13 mm
CML014	Injection vial cap, 13 mm
CML015	Flip-off lid for injection vial , 13 mm

CMM - Crimping tongs

Crimping tongs

Code	Description
CMM001	Crimping tongs aluminum caps, injection vials 20 mm
CMM002	Crimping tongs, injection vials, flip-off caps 20 mm
CMM003	Head crimping tongs aluminum caps, injection vials 20 mm
CMM004	Head crimping tongs Flip-off caps, injection vials 20 mm
CMM005	Crimping tongs aluminum caps, injection vials 13 mm
CMM006	Crimping tongs, injection vials, flip-off caps 13 mm
CMM007	Head crimping tongs aluminum caps, injection vials 13 mm
CMM008	Head crimping tongs Flip-off caps, injection vials 13 mm

CMD - For pills

Glass pillbox

1| Made of soda-lime glass type II, III. Complies with European and United States Pharmacopoeia.

Code	Glass	Volume	Ø base	Lot
CMD001	Amber	18 mL	30 mm	**210**
CMD003	Transp.	8,5 mL	20 mm	**220**
CMD004	Transp.	12,5 mL	30 mm	**210**
CMD005	Transp.	20 mL	30 mm	**131**
CMD006	Transp.	25 mL	30 mm	**210**
CMD016	Amber	25 mL	30 mm	**210**
CMD007	Transp.	31 mL	30 mm	**210**
CMD009	Transp.	67 mL	30 mm	**140**
CMD010	Transp.	96,5 mL	40 mm	**86**

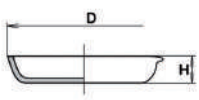
PE cap for pillbox

Code	Diameter
CMD013	22 mm
CMD014	30 mm
CMD015	40 mm

CNB - Capsules, flat, porcelain

Evaporation flat bottom

DIMENSIONS



d: diameter
h: height

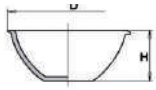
1| With a spout. Enamelled inside and outside except for the base.

Code	Cap.	d.	h.
CNB001	10 mL	50 mm	10 mm
CNB002	20 mL	60 mm	14 mm
CNB003	28 mL	75 mm	15 mm
CNB004	55 mL	80 mm	20 mm
CNB005	110 mL	100 mm	25 mm
CNB006	250 mL	130 mm	30 mm
CNB007	450 mL	160 mm	40 mm
CNB008	1100 mL	200 mm	55 mm
CNB009	1750 mL	250 mm	55 mm

CNB - Capsules, flat, porcelain

Evaporation dish flat bottom

DIMENSIONS



d: diameter
h: height

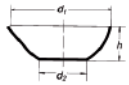
Code	Cap.	d.	h.
CNB010	22 mL	54 mm	22 mm
CNB011	62 mL	70 mm	30 mm
CNB012	93 mL	86 mm	33 mm
CNB013	154 mL	98 mm	40 mm
CNB014	265 mL	112 mm	50 mm
CNB015	330 mL	126 mm	53 mm
CNB016	450 mL	145 mm	55 mm
CNB017	620 mL	151 mm	63 mm
CNB018	800 mL	169 mm	68 mm
CNB019	1000 mL	195 mm	74 mm
CNB020	2500 mL	254 mm	105 mm

CNC - Capsules, flat, glass

Evaporation dish flat bottom, glass

BORO 3.3

DIMENSIONS



d1: Sup. Ø
d2: base Ø
h: height

Code	Cap.	d1.	d2.	h.
CNC001	15mL	50 mm	25 mm	25 mm
CNC002	45mL	60 mm	30 mm	30 mm
CNC003	90mL	80 mm	35 mm	45 mm
CNC004	170mL	95 mm	40 mm	55 mm
CNC005	320mL	115 mm	50 mm	65 mm
CNC006	600mL	140 mm	60 mm	80 mm

CND - Capsules, flat, metal

AGENCINOX

Code	Handle	Cap.	Diameter	Height
CND001	No	60 mL	60 mm	30 mm
CND002	No	100 mL	80 mm	40 mm
CND003	No	250 mL	100 mm	50 mm
CND004	No	500 mL	120 mm	60 mm
CND005	No	1000 mL	160 mm	80 mm
CND006	No	2000 mL	200 mm	100 mm
CND007	No	5000 mL	250 mm	120 mm
CND008	Yes	500 mL	250 mm	120 mm
CND009	Yes	1000 mL	160 mm	80 mm
CND010	Yes	2000 mL	200 mm	100 mm
CND011	Yes	4500 mL	120 mm	250 mm

CNF - Capsules, flat, PTFE

Capsules PTFE

Kartell

1| Exceptional chemical, mechanical and heat resistance (withstands temperatures up to + 250 °C and in short periods up to +300 °C)

Code	Cap.	Ø	Height
CNF001	25 mL	42 mm	25 mm
CNF002	100 mL	80 mm	28 mm

CNG - Capsules, round, porcelain

Evaporation dish deep round bottom

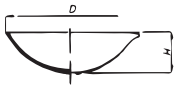
1| With spout. Glazed inside and partly outsideHigh resistance against acids and alkalines..

Code	Cap.	Diameter	Height
CNG015	10 mL	40 mm	16 mm
CNG016	20 mL	50 mm	20 mm
CNG017	30 mL	63 mm	25 mm
CNG018	60 mL	80 mm	32 mm
CNG019	107 mL	81 mm	38 mm
CNG020	140 mL	94 mm	42 mm
CNG021	150 mL	100 mm	40 mm
CNG022	232 mL	112 mm	47 mm
CNG023	285 mL	125 mm	50 mm
CNG024	300 mL	132 mm	55 mm
CNG025	400 mL	138 mm	61 mm
CNG026	580 mL	160 mm	64 mm
CNG027	700 mL	170 mm	74 mm
CNG028	1300 mL	202 mm	86 mm
CNG029	6000 mL	320 mm	140 mm

CNG - Capsules, round, porcelain

Round bottom evaporation dish

DIMENSIONS



d: width
h: height

1| With spout. Interior and part of the exterior glazed.

Code	Cap.	Diameter	Height	Lot
CNG001	15 mL	47 mm	20 mm	**30**
CNG002	35 mL	60 mm	25 mm	**10**
CNG003	50 mL	70 mm	28 mm	**10**
CNG004	60 mL	74 mm	30 mm	**10**
CNG005	75 mL	82 mm	32 mm	**10**
CNG006	100 mL	90 mm	35 mm	**10**
CNG007	125 mL	98 mm	38 mm	**10**
CNG008	140 mL	100 mm	39 mm	**10**
CNG009	150 mL	104 mm	40 mm	**10**
CNG010	200 mL	110 mm	44 mm	**10**
CNG011	270 mL	120 mm	49 mm	**10**
CNG012	300 mL	126 mm	52 mm	**10**
CNG013	400 mL	150 mm	58 mm	**6**
CNG014	1000 mL	206 mm	64 mm	**3**

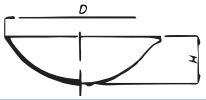
Dish semi-deep round bottom

1| With spout. Interior and exterior glazed except for the base.

Code	Cap.	Diameter	Height
CNG030	41 mL	72 mm	26 mm
CNG031	62 mL	83 mm	27 mm
CNG032	110 mL	96 mm	30 mm
CNG033	160 mL	110 mm	37 mm
CNG034	215 mL	117 mm	41 mm
CNG035	240 mL	127 mm	42 mm
CNG036	325 mL	142 mm	46 mm
CNG037	420 mL	154 mm	50 mm
CNG038	558 mL	170 mm	55 mm
CNG041	1000 mL	200 mm	80 mm

CNH - Capsules, round, glass

DIMENSIONS

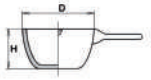


Code	Cap.	d.	h.
CNH001	35 mL	64 mm	29 mm
CNH002	90 mL	85 mm	39 mm
CNH003	180 mL	105 mm	49 mm

CNK - Capsules with handle, porcelain

Flat bottom

DIMENSIONS



d: width
h: height

1| With a spout. Enameled interior and exterior except base.

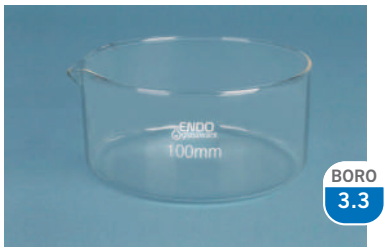
Code	Cap.	d.	h.
CNK002	70 mL	66 mm	39 mm
CNK003	150 mL	90 mm	48 mm
CNK004	200 mL	96 mm	52 mm
CNK005	250 mL	108 mm	60 mm
CNK006	500 mL	132 mm	70 mm

1| With a spout. Enameled interior and exterior except base..

Code	Cap.	d.	h.
CNK007	22 mL	45 mm	26 mm
CNK008	84 mL	67 mm	39 mm
CNK009	176 mL	85 mm	49 mm
CNK010	270 mL	101 mm	51 mm
CNK011	450 mL	120 mm	64 mm
CNK012	960 mL	150 mm	86 mm

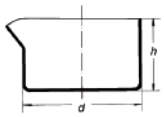
CNL - Evap. dishes with spout, glass

Crystallizing dish with spout



BORO 3.3

DIMENSIONS



d: width
h: height

Code	Cap.	d.	h.
CNL020	20 mL	40 mm	25 mm
CNL001	40 mL	50 mm	30 mm
CNL002	60 mL	60 mm	35 mm
CNL003	100 mL	70 mm	40 mm
CNL004	150 mL	80 mm	45 mm
CNL005	250 mL	100 mm	50 mm
CNL006	500 mL	120 mm	65 mm
CNL007	1000 mL	150 mm	75 mm
CNL008	1500 mL	180 mm	90 mm
CNL009	3500 mL	230 mm	100 mm

CNL - Evap. dishes with spout, glass

Crystallising dish with spout

BORO 3.3

1| DIN 12 338.

Code	Cap.	d.	h.
CNL010	15 mL	40 mm	25 mm
CNL011	20 mL	50 mm	30 m
CNL012	40 mL	60 mm	35 mm
CNL013	50 mL	70 mm	40 mm
CNL014	90 mL	80 mm	45 mm
CNL015	200 mL	95 mm	55 mm
CNL016	380 mL	115 mm	65 mm
CNL017	650 mL	140 mm	75 mm
CNL018	1600 mL	190 mm	90 mm
CNL019	2700 mL	230 mm	100 mm

CNM - Evap. dishes with spout, PTFE

Kartell

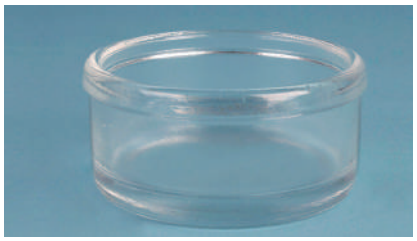
1| Temperature of use -270 ºC to +250 ºC. Resistant to acids and very aggressive mixtures.

Code	Cap.	d.	h.
CNM001	25 mL	38 mm	35,64 mm
CNM002	100 mL	64 mm	54,48 mm
CNM003	350 mL	100 mm	62,22 mm

CNN - Evap. dishes without spout, glass

With rim

ENDO glassware



1| Made of thick pressed soda-lime glass. With reinforced rim to prevent breakage. Ideal for drying and crystallizing of solids.

Code	Cap.	d.	h.
CNN001	150 mL	80 mm	40 mm
CNN002	300 mL	100 mm	55 mm
CNN003	500 mL	120 mm	60 mm
CNN004	1000 mL	150 mm	70 mm
CNN005	1500 mL	190 mm	90 mm
CNN026	2500 mL	220 mm	105 mm
CNN027	4500 mL	240 mm	123 mm
CNN028	9000 mL	300 mm	153 mm

CNN - Evap. dishes without spout, glass

Crystallising dish without spout

BORO 3.3

1| DIN 12337.

Code	Cap.	d.	h.
CNN006	15 mL	40 mm	25 mm
CNN007	20 mL	50 mm	30 mm
CNN008	40 mL	60 mm	35 mm
CNN009	50 mL	70 mm	40 mm
CNN010	90 mL	80 mm	45 mm
CNN011	200 mL	95 mm	55 mm
CNN012	380 mL	115 mm	65 mm
CNN013	650 mL	140 mm	75 mm
CNN014	1600 mL	190 mm	90 mm
CNN015	2700 mL	230 mm	100 mm

CNP - Evap. dishes without spout, SS

Crystallising dish without spout

AGENCINOX

1| Produced in 18/10 stainless steel AISI 304..

Code	Cap.	d.	h.	Type
CNP001	50 mL	60 mm	20 mm	Low form
CNP002	100 mL	80 mm	20 mm	Low form
CNP003	250 mL	85 mm	45 mm	Tall form
CNP004	500 mL	110 mm	55 mm	Tall form
CNP005	1000 mL	140 mm	70 mm	Tall form
CNP006	2000 mL	160 mm	105 mm	Tall form

CNQ - Evap. dishes without spout, PFA

Evaporating dishes PFA

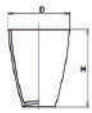
Kartell

Code	Cap.	d.	h.
CNQ001	25 mL	50 mm	25 mm
CNQ002	50 mL	50 mm	54 mm

CPB - Crucibles, tall form, porcelain

High form crucible

DIMENSIONS



d: width
h: height

1| With lid. Enameled interior and exterior except for the edge and base.

Code	Cap.	d.	h.	Lot
CPB001	15 mL	32 mm	34 mm	**10**
CPB002	18 mL	34 mm	36 mm	**10**
CPB004	20 mL	36 mm	38 mm	**10**
CPB005	25 mL	38 mm	40 mm	**10**
CPB006	30 mL	40 mm	46 mm	**10**
CPB007	40 mL	42 mm	54 mm	**10**
CPB008	50 mL	43 mm	58 mm	**10**

Crucible high form, without lid

1| Enamelled interior and exterior. Unglazed edge and base.

Code	d.	h.	Volume	Lot
CPB010	30 mm	38 mm	15 mL	**5**
CPB011	35 mm	44 mm	26 mL	**5**
CPB012	40 mm	50 mm	35 mL	**5**
CPB013	45 mm	56 mm	50 mL	**5**
CPB014	50 mm	62 mm	72 mL	**5**
CPB015	60 mm	75 mm	120 mL	**5**

CPC - Crucibles, medium form, porcelain

Combustion crucible

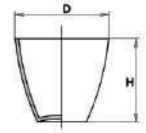
1| High resistance to acids and alkalines. Without lid, enameled interior and exterior except for the edge and base.

Code	d.	h.	Cap.	Lot
CPC011	30 mm	25 mm	10 mL	**5**
CPC012	35 mm	28 mm	12 mL	**5**
CPC013	40 mm	32 mm	20 mL	**5**
CPC014	45 mm	36 mm	30 mL	**5**
CPC015	50 mm	40 mm	45 mL	**5**
CPC016	60 mm	48 mm	80 mL	**5**
CPC017	70 mm	56 mm	120 mL	**5**

CPC - Crucibles, medium form, porcelain

Crucibles with lid

DIMENSIONS



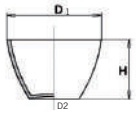
d: with
h: height

Code	Volume	Dim.	Height
CPC001	5 mL	25 mm	21 mm
CPC002	10 mL	30 mm	28 mm
CPC003	15 mL	35 mm	30 mm
CPC004	25 mL	40 mm	36 mm
CPC005	30 mL	42 mm	41 mm
CPC006	40 mL	48 mm	42 mm
CPC007	50 mL	53 mm	46 mm
CPC008	70 mL	56 mm	56 mm
CPC009	100 mL	63 mm	59 mm
CPC010	300 mL	90 mm	78 mm

CPD - Crucibles, low form, porcelain

Crucible with lid

DIMENSIONS



d1: Ø superior
d2: Ø base
h: heoght

1| Glazed inside and outside except for outside bottom surface and rim.

Code	Cap.	h.	d.	Lot
CPD001	15 mL	43 mm	23 mm	**10**
CPD002	25 mL	47 mm	27 mm	**10**
CPD003	30 mL	51 mm	30 mm	**10**
CPD004	50 mL	59 mm	38 mm	**10**

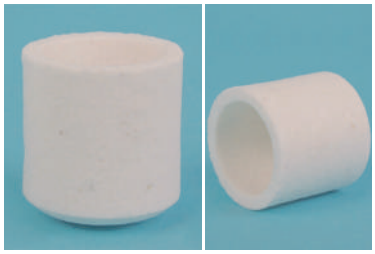
Crucible without lid

1| Without lid, enameled interior and exterior except for the edge and base.

Code	Cap.	d.	h.	Lot
CPD005	5 mL	30 mm	19 mm	**5**
CPD006	10 mL	35 mm	22 mm	**5**
CPD007	17 mL	40 mm	25 mm	**5**
CPD008	21 mL	45 mm	28 mm	**5**
CPD009	34 mL	50 mm	32 mm	**5**
CPD010	62 mL	60 mm	38 mm	**5**
CPD011	91 mL	70 mm	44 mm	**5**

CPD - Crucibles, low form, porcelain

High-frequency furnace crucibles



1| Non glazed. Temperatures up to 1350º C

Code	Ø inner	h.	Ø outer	Lot
CPD012	19 mm	26 mm	25 mm	**10**

CPF - Crucibles, lids, porcelain

Beehive shelf

1| Enameled except for the edge.

Code	Diameter
CPF001	75 mm
CPF002	100 mm

Lid for crucible

1| Enameled interior and exterior.

Code	Ø inner	Ø outer	Lot
CPF003	30 mm	34 mm	**5**
CPF004	35 mm	39 mm	**5**
CPF005	40 mm	44 mm	**5**
CPF006	45 mm	49 mm	**5**
CPF007	50 mm	54 mm	**5**
CPF008	60 mm	64 mm	**5**
CPF009	70 mm	74 mm	**5**
CPF010	80 mm	84 mm	**5**

Porcelain saucer glazed

Code	Dimensions
CPF011	115/125 mm

CPH - Crucibles, metal and quartz

Quartz crucibles

1| Tolerance up to 2000 ºC

Code	Volume	ø sup.x height	Type
CPH016	15 mL	38x28 mm	Without lid
CPH017	25 mL	44x36 mm	Without lid
CPH018	50 mL	53x45 mm	Without lid
CPH019	100 mL	67x55 mm	Without lid
CPH020	15 mL	38x28 mm	With lid
CPH021	25 mL	44x36 mm	With lid
CPH022	50 mL	53x45 mm	With lid
CPH023	100 mL	67x55 mm	With lid

Quartz crucibles

1| Made of AISI 304 stainless steel

Code	Dimensions (Øxh)	Thickness
CPH024	35x30 mm	1 mm
CPH025	40x35 mm	1 mm
CPH026	50x45 mm	1 mm
CPH027	60x50 mm	1 mm

CPJ - Crucibles, PTFE

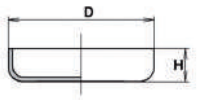
1| Molded on pure PTFE, these crucibles are unbreakable, chemically inert and easy to clean by a smooth surface. They support a continuous working temperature of +260ºC and are able to stand up to +340ºC during a short period.

Code	Volume	Height	Ø upper	Ø inner
CPJ001	30 mL	43 mm	48 mm	32 mm
CPJ002	50 mL	50 mm	53 mm	36 mm
CPJ003	100 mL	60 mm	59 mm	42 mm
CPJ004	250 mL	90 mm	78 mm	54 mm

CPK - Incineration capsules

Annealing dish, high form without spout

DIMENSIONS



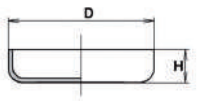
d: width
h: height

1| High resistance to acids and alkalines. Enameled interior and exterior except for the edge and base.

Code	Cap.	d.	h.	Lot
CPK001	8 mL	30 mm	15 mm	**5**
CPK002	21 mL	40 mm	20 mm	**5**
CPK003	35 mL	50 mm	25 mm	**5**
CPK004	64 mL	60 mm	30 mm	**5**
CPK005	103 mL	70 mm	35 mm	**5**

Low form without spout

DIMENSIONS



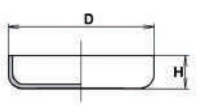
d: width
h: height

1| High resistance to acids and alkalines. Enameled interior and exterior except for the edge and base.

Code	Cap.	d.	h.	Lot
CPK006	7 mL	38 mm	10 mm	**5**
CPK007	9 mL	44 mm	11 mm	**5**
CPK008	12 mL	47 mm	13 mm	**5**
CPK009	70 mL	81 mm	20 mm	**5**
CPK010	220mL	122mm	28 mm	**5**

High form with spout

DIMENSIONS



d: width
h: height

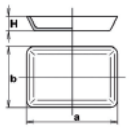
1| Enameled interior and exterior except for the edge and base.

Code	Cap.	d.	h.	Lot
CPK011	8 mL	30 mm	15 mm	**5**
CPK012	21mL	40 mm	20 mm	**5**
CPK013	35 mL	50 mm	25 mm	**5**
CPK014	64 mL	60 mm	30 mm	**5**
CPK015	103 mL	70 mm	35 mm	**5**

CPL - Incineration cuvettes

Incineration cuvettes

DIMENSIONS

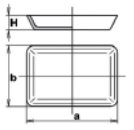


a: large
b: fond
h: height

1| Interior and exterior glazed except for the rim and the base.

Code	a.	b.	h.	Lot
CPL002	75 mm	35 mm	15 mm	**10**
CPL004	120 mm	65 mm	18 mm	**10**

DIMENSIONS



a: large
b: fond
h: height

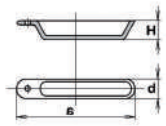
1| Enameled interior and exterior except for the edge and base.

Code	a.	b.	h.	Volume
CPL005	50 mm	35 mm	12 mm	6 mL
CPL006	60 mm	40 mm	12 mm	13 mL
CPL007	74 mm	49 mm	14 mm	28 mL
CPL008	95 mm	65 mm	14 mm	40 mL

CPN - Combustion boats

DIMENSIONS

a: large
b: fond
h: height



1| Unglazed. Supports temperatures up to 1350 ºC.

Code	a.	d.	h	Lot
CPN001	88 mm	13 mm	10 mm	**100**

Code	a.	d.	h	Lot
CPN002	75 mm	13 mm	8 mm	**50**
CPN003	105 mm	14 mm	9 mm	**50**
CPN004	85 mm	13 mm	8 mm	**50**
CPN005	90 mm	13 mm	8 mm	**50**

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DBB - Class A, tall form, glass

Tall form, with spout

ENDO glassware

1| Blue graduation and hexagonal base. With lot certificate.

Code	Cap./ Grad.	h.	Tolerance
DBB001	5 / 0.1 mL	112 mm	± 0.05 mL
DBB002	10 / 0.2 mL	135 mm	± 0.10 mL
DBB003	25 / 0.5 mL	160 mm	± 0.25 mL
DBB004	50 / 1.0 mL	195 mm	± 0.50 mL
DBB005	100/ 1.0 mL	240 mm	± 0.50 mL
DBB006	250 / 2.0 mL	320 mm	± 1.0 mL
DBB007	500 / 5.0 mL	380 mm	± 2.50 mL
DBB008	1000 / 10.0 mL	420 mm	± 5.00 mL
DBB009	2000 / 20.0 mL	520 mm	± 10.00 mL

GLASSCO

1| Blue graduation and hexagonal base. With lot certificate.

Code	Cap./ Grad.	h.	Tolerance
DBB010	10 / 0.2 mL	137 mm	± 0.10 mL
DBB011	25 / 0.5 mL	167 mm	± 0.25 mL
DBB012	50 / 1.0 mL	195 mm	± 0.50 mL
DBB013	100/1.0 mL	257 mm	± 0.50 mL
DBB014	250 / 2.0 mL	330 mm	± 1.00 mL
DBB015	500 / 5.0 mL	385 mm	± 2.50 mL
DBB016	1000 / 10.0 mL	460 mm	± 5.00 mL
DBB017	2000 / 20.0 mL	565 mm	± 10.00 mL

SIMAX CZECH REPUBLIC

Code	Cap./ Grad.	h.	Tolerance
DBB027	5 /0.1 mL	115 mm	±0,05 mL
DBB028	10 / 0.2 mL	135 mm	±0.10 mL
DBB029	25 / 0.5 mL	160 mm	±0.25 mL
DBB030	50 /1.0 mL	195 mm	±0.50 mL
DBB031	100 / 1.0 mL	240 mm	±0.50 mL
DBB032	250 / 2.0 mL	320 mm	±1.00 mL
DBB033	500 / 5.0 mL	380 mm	±2.50 mL
DBB034	1000 / 10.0 mL	465 mm	±5.00 mL
DBB035	2000 / 20.0 mL	535 mm	±10.00 mL

DBB - Class A, tall form, glass

With plastic stopper, blue graduation

ENDO glassware

1| Blue graduation and hexagonal base. With lot certificate.

Code	Cap./Grad.	h.	Tolerance	Ground
DBB018	5 / 0.1 mL	112 mm	± 0.05 mL	10/19
DBB019	10 / 0.2 mL	135 mm	± 0.10 mL	10/19
DBB020	25 / 0.5 mL	160 mm	± 0.25 mL	14/26
DBB021	50 / 1.0 mL	195 mm	± 0.50 mL	19/26
DBB022	100 / 1.0 mL	240 mm	± 0.50 mL	24/29
DBB023	250 / 2.0 mL	320 mm	± 1.00 mL	29/32
DBB024	500 / 5.0 mL	380 mm	± 2.50 mL	29/32
DBB025	1000 / 10.0 mL	420 mm	± 5.00 mL	29/32
DBB026	2000 / 20.0 mL	520 mm	± 10.00 mL	29/32

SIMAX CZECH REPUBLIC

Code	Cap./Grad. mL	h. mm	Tolerance mL	Ground
DBB045	5 /0.1	115	±0.05	10/19
DBB046	10/0.2	135	±0.10	10/19
DBB047	25/0.5	160	±0.25	14/23
DBB048	50/1.0	195	±0.50	19/26
DBB049	100/1.0	240	±0.50	24/29
DBB050	250/2.0	320	±1.00	29/32
DBB051	500/5.0	380	±2.50	34/35
DBB052	1000/10.0	465	±5.00	45/40
DBB053	2000/20.0	535	±10.00	45/40

With glass stopper, blue graduation

SIMAX CZECH REPUBLIC

Code	Cap./Grad. mL	h. mm	Tolerance mL	Ground
DBB036	5 / 0.1	115	±0.05	10/19
DBB037	10 / 0.2	135	±0.10	10/19
DBB038	25 / 0.5	160	±0.25	14/23
DBB039	50 / 1.0	195	±0.50	19/26
DBB040	100 / 1.0	240	±0.50	24/29
DBB042	500 / 5.0	380	±2.50	34/35
DBB044	2000 /20.0	535	±10.00	45/40

DBD - Class A, tall form, plastic

Volumetric cylinder, PMP

VITLAB

1| Embossed scale, hexagonal base.

Code	Capacity	h.	Graduation	Tolerance
DBD501	10 mL	145 mm	0.2 mL	±0.1 mL
DBD502	25 mL	170 mm	0.5 mL	±0.25 mL
DBD503	50 mL	200 mm	1.0 mL	±0.5 mL
DBD504	100 mL	250 mm	1.0 mL	±0.5 mL
DBD505	250 mL	315 mm	2.0 mL	±1.0 mL
DBD506	500 mL	360 mm	5.0 mL	±2.5 mL
DBD507	1000 mL	440 mm	10.0 mL	±5.0 mL
DBD508	2000 mL	482 mm	20.0 mL	±10.0 mL

Volumetric cylinder, PMP

VITLAB

1| Embossed scale, hexagonal base, red graduation.

Code	Capacity	h.	Graduation	Tolerance
DBD510	25 mL	145 mm	0.2 mL	±0.1 mL
DBD513	100 mL	250 mm	0.5 mL	±0.5 mL
DBD515	500 mL	360 mm	1.0 mL	±0.5 mL
DBD516	1000 mL	440 mm	5.0 mL	±2.5 mL

DBG - Class B, tall form, glass

ENDO glassware

Code	Cap./ Grad.	h.	Tolerance
DBG001	5 / 0.1 mL	112 mm	±0.1 mL
DBG002	10 / 0.2 mL	135 mm	±0.2 mL
DBG003	25 / 0.5 mL	160 mm	±0.5 mL
DBG004	50 / 1.0 mL	195 mm	±1.0 mL
DBG005	100 / 1.0 mL	240 mm	±1.0 mL
DBG006	250 / 2.0 mL	320 mm	±2.0 mL
DBG007	500 / 5.0 mL	380 mm	±5.0 mL
DBG008	1000 / 10.0 mL	420 mm	±10.0 mL
DBG009	2000 / 20.0 mL	520 mm	±20.0 mL

DBG - Class B, tall form, glass

Tall form, with spout

SIMAX CZECH REPUBLIC

BORO 3.3

ISO 4788

1| Amber graduation and hexagonal base.

Code	Cap./ Grad.	h.	Tolerance
DBG035	5 / 0.1 mL	115 mm	±0.1 mL
DBG036	10 / 0.2 mL	135 mm	±0.2 mL
DBG037	25 / 0.5 mL	160 mm	±0.5 mL
DBG038	50 / 1.0 mL	195 mm	±1.0 mL
DBG039	100 / 1.0 mL	240 mm	±1.0 mL
DBG040	250 / 2.0 mL	320 mm	±2.0 mL
DBG041	500 / 5.0 mL	380 mm	±5.0 mL
DBG042	1000 / 10.0 mL	465 mm	±10.0 mL
DBG043	2000 / 20.0 mL	535 mm	±20.0 mL

BORO 3.3

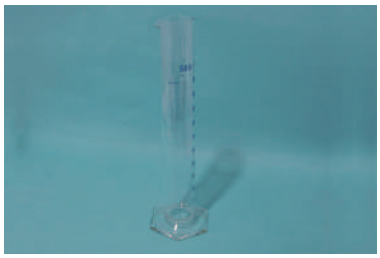
ISO 4788

SIMAX CZECH REPUBLIC

1| White graduation and hexagonal base.

Code	Cap./ Grad.	h.	Tolerance
DBG044	5 / 0.1 mL	115 mm	±0.1 mL
DBG045	10 / 0.2 mL	135 mm	±0.2 mL
DBG053	15 mL	220 mm	--
DBG046	25 / 0.5 mL	160 mm	±0.5 mL
DBG054*	30 / 0.5 mL	220 mm	±0.5 mL
DBG047	50 / 1.0 mL	195 mm	±1.0 mL
DBG055*	60 / 1.0 mL	215 mm	±1.0 mL
DBG048	100 / 1.0 mL	240 mm	±1.0 mL
DBG049	250 / 2.0 mL	320 mm	±2.0 mL
DBG050	500 / 5.0 mL	380 mm	±5.0 mL
DBG051	1000 / 10.0 mL	465 mm	±10.0 mL
DBG052	2000 / 20.0 mL	535 mm	±20.0 mL

** no iso*



1| Blue graduation and hexagonal base.

Code	Volume	Division	Tolerance
DBG501	5 mL	0,2 mL	± 0,2 mL
DBG502	10 mL	0,5 mL	± 0,5 mL
DBG503	25 mL	0,5 mL	± 1,0 mL
DBG504	50 mL	1,0 mL	± 1,0 mL
DBG505	100 mL	1,0 mL	± 1,0 mL
DBG506	250 mL	2,0 mL	± 2,0 mL
DBG507	500 mL	5,0 mL	± 5,0 mL
DBG508	1000 mL	10,0 mL	± 10,0 mL
DBG509	2000 mL	20,0 mL	± 20,0 mL

DBG - Class B, tall form, glass

With plastic stopper

ENDO glassware

1 | White graduation and hexagonal base.

Code	Cap./Grad.	h.	Tolerance	Ground
DBG010	5 / 0.1 mL	112 mm	±0.1 mL	10/19
DBG011	10 / 0.2 mL	135 mm	±0.2 mL	10/19
DBG012	25 / 0.5 mL	160 mm	±0.5 mL	14/26
DBG013	50 / 1.0 mL	195 mm	±1.0 mL	19/26
DBG014	100 / 1.0 mL	240 mm	±1.0 mL	24/29
DBG015	250 / 2.0 mL	320 mm	±2.0 mL	29/32
DBG016	500 / 5.0 mL	380 mm	±5.0 mL	29/32
DBG017	1000 / 10.0 mL	420 mm	±10.0 mL	29/32
DBG018	2000 / 20.0 mL	520 mm	±20.0 mL	29/32

With glass stopper

BORO 3.3

ISO 4788

Code	Cap./Grad. mL	h. mm	Tolerance mL	Ground
DBG027	10 / 0.2	135	±0.2	10/19
DBG028	25 / 0.5	160	±0.5	14/23
DBG029	50 / 1.0	195	±1.0	19/26
DBG030	100 / 1.0	240	±1.0	24/29
DBG031	250 / 2.0	320	±2.0	29/32
DBG032	500 / 5.0	380	±5.0	34/35
DBG033	1000 / 10.0	465	±10.0	45/40
DBG034	2000 / 20,0	535	±20.0	45/40

DBJ - Class B, tall form, plastic

ENDO plasticware

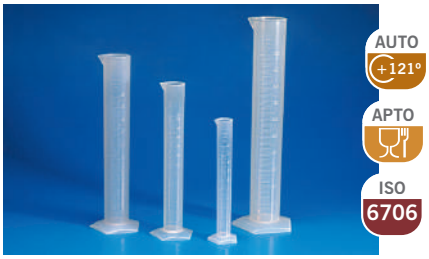
1 | Made of polypropylene, hexagonal base. Permanent embossed graduation.

Code	Cap./Grad.	h.	Tolerance	Lot
DBJ001	10 / 0.2 mL	147 mm	±0.1 mL	10
DBJ002	25 / 0.5 mL	171 mm	±0.25 mL	10
DBJ003	50 / 1.0 mL	250 mm	±0.5 mL	10
DBJ004	100 / 1.0 mL	250 mm	±1.0 mL	10
DBJ005	250 / 2.0 mL	328 mm	±2.5 mL	6
DBJ006	500 / 5.0 mL	365 mm	±5.0 mL	6
DBJ007	1000 / 10 mL	440 mm	±10.0 mL	4
DBJ008	2000 / 20 mL	536 mm	±20.0 mL	2

DBJ - Class B, tall form, plastic

With spout, PP, moulded graduation

Kartell



1 | Special high transparency polypropylene. Excellent chemical resistance. Water-repellent walls.

Code	Cap./ Grad.	h.	Tolerance
DBJ009	10 / 0.2 mL	140 mm	±0.2 mL
DBJ010	25 / 0.5 mL	195 mm	±0.5 mL
DBJ011	50 / 1.0 mL	199 mm	±1.0 mL
DBJ012	100 / 1.0 mL	249 mm	±1.0 mL
DBJ013	250 / 2.0 mL	315 mm	±2.0 m
DBJ014	500 / 5.0 mL	361 mm	±5.0 mL
DBJ015	1000 / 10.0 mL	439 mm	±10.0 mL
DBJ016	2000 / 20.0 mL	531 mm	±20.0 mL

With spout, PMP, moulded graduation

Kartell

1 | Can withstand temperatures up to 170 ºC. Transparent like glass. Excellent chemical resistance. Hydrophobic walls.

Code	Cap./ Grad.	h.	Tolerance
DBJ017	10 / 0.2 mL	139 mm	±0.2 mL
DBJ018	25 / 0.5 mL	195 mm	±0.5 mL
DBJ019	50 / 1.0 mL	199 mm	±1.0 mL
DBJ020	100 / 1.0 mL	249 mm	±1.0 mL
DBJ021	250 / 2.0 mL	315 mm	±2.0 mL
DBJ022	500 / 5.0 mL	361 mm	±5.0 mL
DBJ023	1000 / 10.0 mL	438 mm	±10.0 mL
DBJ024	2000 / 20.0 mL	531 mm	±20.0 mL

With spout, PMP(TBX), blue graduation

Kartell

Code	Cap./ Grad.	h.	Tolerance
DBJ033	10 mL / 0.2 mL	139 mm	±0.2 mL
DBJ034	25 mL / 0.5 mL	195 mm	±0.5 mL
DBJ035	50 mL / 1.0 mL	199 mm	±1.0 mL
DBJ036	100 mL / 1.0 mL	249 mm	±1.0 mL
DBJ037	250 mL / 2.0 mL	315 mm	±2.0 mL
DBJ038	500 mL / 5.0 mL	361 mm	±5.0 mL
DBJ039	1000 mL / 10.0 mL	438 mm	±10.0 mL
DBJ040	2000 mL / 20.0 mL	531 mm	±20.0 mL

DBJ - Class B, tall form, plastic

With spout, PP, blue graduation

Kartell

1| Special high transparency polypropylene. Resistant to +100 ºC during continuous use. Excellent chemical resistance. Water-repellent walls.

Code	Cap./ Grad.	h.	Tolerance
DBJ025	10 / 0.2 mL	140 mm	±0.2 mL
DBJ026	25 / 0.5 mL	195 mm	±0.5 mL
DBJ027	50 / 1.0 mL	199 mm	±1.0 mL
DBJ028	100 / 1.0 mL	249 mm	±1.0 mL
DBJ029	250 / 2.0 mL	315 mm	±2.0 mL
DBJ030	500 / 5.0 mL	361 mm	±5.0 mL
DBJ031	1000 / 10.0 mL	439 mm	±10.0 mL
DBJ032	2000 / 20.0 mL	531 mm	±20.0 mL

Volumetric cylinder, SAN

VITLAB

1| Hexagonal base; raised scale.

Code	Cap.	h.	Grad.	Tolerance
DBJ502	50 mL	199 mm	1.0 mL	±1.0 mL
DBJ503	100 mL	260 mm	1.0 mL	±1.0 mL
DBJ504	250 mL	315 mm	2.0 mL	±2.0 mL
DBJ505	500 mL	350 mm	5.0 mL	±5.0 mL
DBJ506	1000 mL	415 mm	10.0 mL	±10.0 mL

Volumetric cylinder, PP

VITLAB

1| Hexagonal base. Blue embossed scale.

Code	Cap.	h.	Grad.	Tolerance
DBJ507	10 mL	145 mm	0.2 mL	±0.2 mL
DBJ508	25 mL	170 mm	0.5 mL	±0.5 mL
DBJ509	50 mL	200 mm	1.0 mL	±1.0 mL
DBJ510	100 mL	250 mm	1.0 mL	±1.0 mL
DBJ511	250 mL	315 mm	2.0 mL	±2.0 mL
DBJ512	500 mL	360 mm	5.0 mL	±5.0 mL
DBJ513	1000 mL	440 mm	10.0 mL	±10.0 mL
DBJ514	2000 mL	482 mm	20.0 mL	±20.0 mL

DBJ - Class B, tall form, plastic

Volumetric cylinder, PP

VITLAB

1| Hexagonal base; raised scale.

Code	Cap.	h.	Grad.	Tolerance
DBJ515	10 mL	145 mm	0.2 mL	±0.2 mL
DBJ516	25 mL	170 mm	0.5 mL	±0.5 mL
DBJ517	50 mL	200 mm	1.0 mL	±1.0 mL
DBJ518	100 mL	250 mm	1.0 mL	±1.0 mL
DBJ519	250 mL	315 mm	2.0 mL	±2.0 mL
DBJ520	500 mL	360 mm	5.0 mL	±5.0 mL
DBJ521	1000 mL	440 mm	10.0 mL	±10.0 mL
DBJ522	2000 mL	482 mm	20.0 mL	±20.0 mL

DBM - Class B, low form, glass

SIMAX CZECH REPUBLIC

BORO 3.3

Code	Cap./ Grad.	h.	Tolerance
DBM001	10 / 0.2 mL	90 mm	±0.2 mL
DBM002	25 / 0.5 mL	100 mm	±0.5 mL
DBM003	50 / 0.5 mL	125 mm	±0.5 mL
DBM004	100 / 1.0 mL	150 mm	±1.0 mL
DBM005	250 / 1.0 mL	170 mm	±1.0 mL
DBM006	500 / 2.0 mL	235 mm	±2.0 mL
DBM007	1000 / 5.0 mL	280 mm	±5.0 mL

SIMAX CZECH REPUBLIC

BORO 3.3

Code	Volume	h.	Tolerance
DBM010	10 mL	100 mm	±0.5 mL
DBM011	25 mL	125 mm	±0.5 mL
DBM012	50 mL	150 mm	±1,0 mL
DBM013	100 mL	170 mm	±1.0 mL
DBM014	250 mL	235 mm	±2.0 mL
DBM015	500 mL	280 mm	±5.0 mL
DBM016	1000 mL	292 mm	±10.0 mL

DBP - Class B, low form, plastic

With spout, PP

Kartell

1| Excellent chemical resistance. Embossed graduation. Can endure temperatures up to +120 ºC.

Code	Cap./Grad.	h.	Tolerance	Lot
DBP001	10 / 0.25 mL	88 mm	± 0.1 mL	10
DBP002	25 / 1 mL	107 mm	± 0.25 mL	10
DBP003	50 / 2.5 mL	143 mm	± 0.5 mL	12
DBP004	100 / 5 mL	178 mm	± 1.0 mL	8
DBP005	250 / 10 mL	264 mm	± 2.5 mL	4
DBP006	500 / 10 mL	305 mm	± 5 mL	4
DBP007	1000 / 25 mL	332 mm	± 10 mL	2
DBP008	2000 / 50 mL	370 mm	± 20 mL	2

With spout, PMP

Kartell

1| Excellent chemical resistance. Embossed graduation. Can endure temperatures up to +170 ºC.

Code	Cap./ Grad.	h.	Tolerance
DBP009	10 / 0.25 mL	87 mm	±0.1 mL
DBP010	25 / 1 mL	107 mm	±0.25 mL
DBP011	50 / 2.5 mL	143 mm	± 0.5 mL
DBP012	100 / 5 mL	177 mm	±1.0 mL
DBP013	250 / 10 mL	263 mm	±2.5 mL
DBP014	500 / 10 mL	302 mm	±5 mL
DBP015	1000 / 25 mL	331 mm	±10 mL
DBP016	2000 / 50 mL	369 mm	±20 mL

DBP - Class B, low form, plastic

Volumetric cylinder, SAN

VITLAB

1| Cylindrical base. Embossed scale

Code	Cap.	h.	Divisions	Tolerance
DBP507	25 mL	122 mm	0.5 mL	±0.5 mL
DBP508	50 mL	142 mm	1.00 mL	±1.00 mL
DBP509	100 mL	163 mm	2.00 mL	±2.00 mL
DBP510	250 mL	192 mm	5.00 mL	±5.00 mL
DBP511	500 mL	218 mm	10.00 mL	±10.00 mL
DBP512	1000 mL	285 mm	20.00 mL	±20.00 mL

DBR - Non graduated, tall form, glass

SIMAX

1| Suitable for use with hydrometers and aerometers. Ungraduated with spout.

Code	Volume	h.	ø
DBR001	10 mL	135 mm	15.5 mm
DBR002	25 mL	160 mm	21.3 mm
DBR003	50 mL	195 mm	26 mm
DBR004	100 mL	240 mm	31.3 mm
DBR005	250 mL	320 mm	40,7 mm
DBR006	500 mL	380 mm	53,2 mm
DBR007	1000 mL	465 mm	67 mm

DDB - Class A with stopper, glass

Transparent glass, with plastic stopper

ENDO glassware

BORO 3.3

ISO 1042

Code	Volume	Ø base	Tolerance	Ground
DDB001	5 mL	15 mm	±0.025 mL	10/19
DDB002	10 mL	18 mm	±0.025 mL	10/19
DDB003	25 mL	25 mm	±0.040 mL	10/19
DDB004	50 mL	30 mm	±0.060 mL	12/21
DDB005	100 mL	40 mm	±0.100 mL	12/21
DDB006	200 mL	50 mm	±0.150 mL	14/23
DDB007	250 mL	50 mm	±0.150 mL	14/23
DDB008	500 mL	70 mm	±0.250 mL	19/26
DDB009	1000 mL	85 mm	±0.400 mL	24/29
DDB010	2000 mL	100 mm	±0.600 mL	24/29

DDB - Class A with stopper, glass

Transparent glass, with PE stopper

1 | Blue graduation. QR code on each flask.

Code	Volume	Ø base	Ground	Tolerance
Individual certificate				
DDB017	25 mL	25 mm	10/19	±0.040 mL
DDB018	50 mL	35 mm	12/21	±0.060 mL
DDB019	100 mL	40 mm	14/23	±0.100 mL
DDB020	200 mL	50 mm	14/23	±0.150 mL
DDB021	250 mL	55 mm	14/23	±0.150 mL
DDB022	500 mL	70 mm	19/26	±0.250 mL
DDB023	1000 mL	85 mm	24/29	±0.400 mL
DDB024	2000 mL	110 mm	29/32	±0.600 mL
Lot certificate				
DDB025	5 mL	15 mm	10/19	±0.040 mL
DDB026	10 mL	18 mm	10/19	±0.040 mL
DDB027	20 mL	18 mm	10/19	±0.040 mL
DDB028	25 mL	25 mm	10/19	±0.040 mL
DDB029	50 mL	35 mm	12/21	±0.060 mL
DDB030	100 mL	40 mm	14/23	±0.100 mL
DDB031	200 mL	50 mm	14/23	±0.150 mL
DDB032	250 mL	55 mm	14/23	±0.150 mL
DDB033	500 mL	70 mm	19/26	±0.250 mL
DDB034	1000 mL	85 mm	24/29	±0.400 mL
DDB035	2000 mL	110 mm	29/32	±0.600 mL
DDB060	5000 mL	170 mm	34/35	±1.200 mL

Transparent glass, with plastic stopper

1 | White graduation.

Code	Volume	Ø base	Ground	Tolerance
DDB050	5 mL	22 mm	7/16	±0.025 mL
DDB051	10 mL	27 mm	7/16	±0.025 mL
DDB052	25 mL	40 mm	10/19	±0.040 mL
DDB053	50 mL	50 mm	12/21	±0.060 mL
DDB054	100 mL	60 mm	12/21	±0.100 mL
DDB055	200 mL	75 mm	14/23	±0.150 mL
DDB056	250 mL	80 mm	14/23	±0.150 mL
DDB057	500 mL	100 mm	19/26	±0.250 mL
DDB058	1000 mL	125 mm	24/29	±0.400 mL
DDB059	2000 mL	160 mm	29/32	±0.600 mL

DDB - Class A with stopper, glass

Volumetric flask class A according to USP

1 | With plastic stopper. Designed according to ISO 1042, DIN 12664 and USP standards. Calibrated to contain (TC, In). USP standards are more accurate than ISO 1042.

Code	Volume	Ground	Tolerance	
Individual certificate				
DDB089	5 mL	10/19	±0.020 mL	
DDB090	10 mL	10/19	±0.020 mL	
DDB091	20 mL	10/19	±0.030 mL	
DDB092	25 mL	10/19	±0.030 mL	
DDB093	50 mL	12/21	±0.050 mL	
DDB094	100 mL	14/23	±0.080 mL	
DDB095	200 mL	14/23	±0.100 mL	
DDB096	250 mL	14/23	±0.120 mL	
DDB097	500 mL	19/26	±0.200 mL	
DDB098	1000 mL	24/29	±0.300 mL	
DDB099	2000 mL	29/32	±0.500 mL	
Lot certificate				
DDB100	5 mL	10/19	±0.020 mL	**2**
DDB101	10 mL	10/19	±0.020 mL	**2**
DDB102	20 mL	10/19	±0.030 mL	**2**
DDB103	25 mL	10/19	±0.030 mL	**2**
DDB104	50 mL	12/21	±0.050 mL	**2**
DDB105	100 mL	14/23	±0.080 mL	**2**
DDB106	200 mL	14/23	±0.100 mL	**2**
DDB107	250 mL	14/23	±0.120 mL	**2**
DDB108	500 mL	19/26	±0.200 mL	**2**
DDB109	1000 mL	24/29	±0.300 mL	**2**
DDB110	2000 mL	29/32	±0.500 mL	**1**

Amber glass, with plastic stopper

1 | With batch certificate, white graduation.

Code	Volume	Ø base	Tolerance	Ground
DDB011	5 mL	15 mm	±0.025 mL	10/19
DDB012	10 mL	18 mm	±0.025 mL	10/19
DDB013	25 mL	25 mm	±0.040 mL	10/19
DDB014	50 mL	30 mm	±0.060 mL	12/21
DDB015	100 m	40 mm	±0.100 mL	12/21
DDB016	250 mL	50 mm	±0.150 mL	14/23
DDB085	500 mL	70 mm	±0.250 mL	19/26
DDB086	1000 mL	85 mm	±0.400 mL	24/29
DDB087	2000 mL	100 mm	±0.600 mL	24/29

DDB - Class A with stopper, glass

Amber glass, with plastic stopper

1| With batch certificate, white graduation.

Code	Volume	Ø base	Ground	Tolerance
DDB036	5 mL	15 mm	10/19	±0.040 mL
DDB037	10 mL	18 mm	10/19	±0.040 mL
DDB038	20 mL	18 mm	10/19	±0.040 mL
DDB039	25 mL	25 mm	10/19	±0.040 mL
DDB040	50 mL	35 mm	12/21	±0.060 mL
DDB041	100 mL	40 mm	14/23	±0.100 mL
DDB042	200 mL	50 mm	14/23	±0.150 mL
DDB043	250 mL	55 mm	14/23	±0.150 mL
DDB044	500 mL	70 mm	19/26	±0.250 mL
DDB045	1000 mL	85 mm	24/29	±0.400 mL
DDB046	2000 mL	110 mm	29/32	±0.600 mL

DDG - Class A, NS stopper, plastic

1| High transparency. With individually calibrated circular marking on 'In'.
2| Tolerances comply with the requirements for category A DIN EN ISO 1042.
3| With printed batch number and batch certificate.
4| Also available with DAkks calibration certificate or individual certificate (at extra cost).

Code	Volume	Ground	Tolerance	Height
DDG501	10 mL	10/19	±0,04 mL	90 mm
DDG502	25 mL	10/19	±0,04 mL	115 mm
DDG503	50 mL	12/21	±0,06 mL	150 mm
DDG504	100 mL	14/23	±0,10 mL	180 mm
DDG505	250 mL	19/26	±0,15 mL	235 mm
DDG506	500 mL	19/26	±0,25 mL	270 mm
DDG507	1000 mL	24/29	±0,40 mL	310 mm

DDJ - Class A without stopper, glass

Volumetric flask without stopper, class A

1| Blue graduation.

Code	Volume	Ø base	Tolerance
DDJ011	5 mL	15 mm	±0.040 mL
DDJ001	10 mL	18 mm	±0.040 mL
DDJ002	20 mL	18 mm	±0.040 mL
DDJ003	25 mL	25 mm	±0.040 mL
DDJ004	50 mL	35 mm	±0.060 mL
DDJ005	100 mL	40 mm	±0.100 mL
DDJ006	200 mL	50 mm	±0.150 mL
DDJ007	250 mL	55 mm	±0.150 mL
DDJ008	500 mL	70 mm	±0.250 mL
DDJ009	1000 mL	85 mm	±0.400 mL
DDJ010	2000 mL	110 mm	±0,600 mL

1| White graduation.

Code	Volume	Ø base	Tolerance	Lot
DDJ012	5 mL	27 mm	±0.025 mL	**10**
DDJ013	10 mL	27 mm	±0.025 mL	**10**
DDJ014	25 mL	40 mm	±0.040 mL	**10**
DDJ015	50 mL	50 mm	±0.060 mL	**10**
DDJ016	100 mL	60 mm	±0.100 mL	**10**
DDJ017	200 mL	75 mm	±0.150 mL	**10**
DDJ018	250 mL	80 mm	±0.150 mL	**10**
DDJ019	500 mL	100 mm	±0.250 mL	**10**
DDJ020	1000 mL	125 mm	±0.400 mL	**10**
DDJ021	2000 mL	160 mm	±0.600 mL	**6**

Volumetric flask without stopper for wine

1| This volumetric flask has a wide base and flat bottoms for better stability.
2| Scale and serial number in white. The top of the funnel includes a pouring spout.

Code	Volume	Range	Diameter	Height
DDJ022	750 mL	740-760 mL	31 mm	370 mm
DDJ023	375 mL	364-385 mL	23,5 mm	325 mm
DDJ024	1500 mL	1450-1550 mL	35,5 mm	455 mm

DDM - Class B with stopper, glass

Code	Volume	Ø base	Tolerance	Ground
DDM008	5 mL	22 mm	±0.05 mL	7/16
DDM009	10 mL	27 mm	±0.05 mL	7/16
DDM011	50 mL	50 mm	±0.12 mL	12/21
DDM012	100 mL	60 mm	±0.20 mL	12/21
DDM013	200 mL	75 mm	±0.30 mL	14/23
DDM014	250 mL	80 mm	±0.30 mL	14/23
DDM015	500 mL	100 mm	±0.50 mL	19/26
DDM016	1000 mL	125 mm	±0.80 mL	24/29
DDM017	2000 mL	160 mm	±1.20 mL	29/32

DDP - Class B, threaded stopper, plastic

Flasks with screw cap PP

1| Calibrated with gravimetric method at 20 °C.
2| Molded in a single piece of highly transparent polypropylene.

Code	Volume	Ø base	GL
DDP001	25 mL	36 mm	18
DDP002	50 mL	46 mm	18
DDP003	100 mL	58 mm	18
DDP004	250 mL	82 mm	25
DDP005	500 mL	100 mm	25
DDP006	1000 mL	120 mm	25

DDR - Class B, NS stopper, plastic

Volumetric flask with cap, PMP

1| Calibrated with the gravimetric method at 20 °C. Molded in a single, highly transparent piece

Code	Volume	Ø base	Tolerance	DIN
DDR002	100 mL	58 mm	± 1 mL	14/23
DDR003	250 mL	82 mm	± 2 mL	19/26
DDR004	500 mL	100 mm	± 5 mL	19/26
DDR005	1000 mL	120 mm	± 10 mL	19/26

DDR - Class B, NS stopper, plastic

Graduated flasks with stopper, PP

1| Calibrated with gravimetric method at 20 °C. Molded in a single piece of highly transparent polypropylene.

Code	Volume	Ø base	DIN
DDR006	25 mL	36 mm	12/21
DDR007	50 mL	46 mm	14/23
DDR008	100 mL	58 mm	14/23
DDR009	250 mL	82 mm	19/26
DDR010	500 mL	100 mm	19/26
DDR011	1000 mL	120 mm	19/26

Flasks with screw cap PP

Code	Volume	Tolerance	Height
DDR501	10 mL	±0,08 mL	90 mm
DDR502	25 mL	±0,08 mL	115 mm
DDR503	50 mL	±0,12 mL	150 mm
DDR504	100 mL	±0,20 mL	180 mm
DDR505	250 mL	±0,30 mL	235 mm
DDR506	500 mL	±0,50 mL	270 mm
DDR507	1000 mL	±0,80 mL	310 mm

DDT - Class B without stopper, glass

Volumetric flask without stopper

1| White graduation

Code	Cap.	Base	Tolerance
DDT003	50 mL	50 mm	0.12 mL
DDT004	100 mL	60 mm	0.20 mL
DDT005	200 mL	75 mm	0.30 mL
DDT006	250 mL	80 mm	0.30 mL
DDT007	500 mL	100 mm	0.50 mL
DDT008	1000 mL	125 mm	0.80 mL
DDT009	2000 mL	160 mm	1.20 mL

DDT - Class B without stopper, glass

Clase B, without stopper

Code	Volume	Tolerance
DDT010	10 mL	±0,04 mL
DDT011	20 mL	±0,06 mL
DDT012	25 mL	±0,06 mL
DDT013	50 mL	±0,100 mL
DDT014	100 mL	±0,160 mL
DDT015	200 mL	±0,200 mL
DDT016	250 mL	±0,240 mL
DDT017	500 mL	±0,400 mL
DDT018	1000 mL	±0,600 mL
DDT019	2000 mL	±1,000 mL

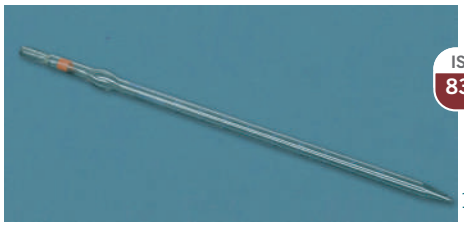
DDW - 2 marks, glass

1| Double graduated volumetric flask marked in blue.

Code	Volume
DDW003	50/55 mL
DDW001	100/110 mL
DDW002	200/220 mL

DGB - Class A with bulb, glass

Grad. pipette class A w/bulb, 0 bottom

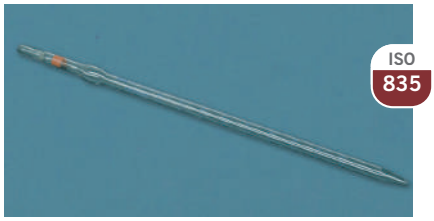


1| Blue graduation.

Code	Volume	Graduation
DGB001	1 mL	0.10 mL
DGB009	1 mL	0.01 mL
DGB002	2 mL	0.10 mL
DGB020	2 mL	0.01 mL
DGB008	5 mL	0.05 mL
DGB003	5 mL	0.10 mL
DGB004	10 mL	0.10 mL
DGB005	20 mL	0.10 mL
DGB006	25 mL	0.10 mL
DGB007	50 mL	0.10 mL

DGB - Class A with bulb, glass

Graduated pipette class A with bulb, 0 top



1| Blue graduation.

Code	Volume	Graduation
DGB010*	1 mL	0.10 mL
DGB018	1 mL	0.01 mL
DGB019	2 mL	0.01 mL
DGB011*	2 mL	0.10 mL
DGB017	5 mL	0.05 mL
DGB012*	5 mL	0.10 mL
DGB013*	10 mL	0.10 mL
DGB014*	20 mL	0.10 mL
DGB015*	25 mL	0.10 mL
DGB016*	50 mL	0.10 mL

* Class AS

DGD - Class A without bulb, glass

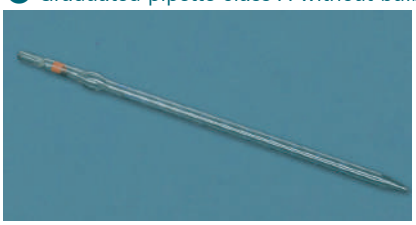
Graduated pipette class A without bulb, 0 top

1| Graduation of 0.02 mL in amber color with zero at the top. Without security bulb.

Code	Volume	Graduation
DGD001	1 mL	0.01 mL
DGD002	2 mL	0.02 mL
DGD003	5 mL	0.05 mL
DGD005	10 mL	0.10 mL

DGG - Class B with bulb, glass

Graduated pipette class A without bulb, 0 top



1| Amber graduation.

Code	Volume	Graduation
DGG011	1 mL	0.01 mL
DGG008	1 mL	0.05 mL
DGG001	1 mL	0.10 mL
DGG012	2 mL	0.02 mL
DGG002	2 mL	0.10 mL
DGG010	5 mL	0.05 mL
DGG003	5 mL	0.10 mL
DGG004	10 mL	0.10 mL
DGG005	20 mL	0.10 mL
DGG006	25 mL	0.10 mL
DGG007	50 mL	0.10 mL

DGJ - Class B without bulb, glass

Graduated pipette class A without bulb, 0 bottom

1 | Amber graduation.

Code	Volume	Graduation
DGJ001	0,1 mL	0.001 mL
DGJ002	0.2 mL	0.002 mL
DGJ020	0.2 mL	0.01 mL
DGJ003	0.5 mL	0.005 mL
DGJ005	1 mL	0.01 mL
DGJ006	2 mL	0.01 mL
DGJ007	5 mL	0.05 mL
DGJ008	10 mL	0.1 mL
DGJ009	20 mL	0.1 mL
DGJ010	25 mL	0.1 mL

Pipette B brown grad.without safety bulb

1 | Amber graduation.

Code	Volume	Graduation
DGJ011	1 mL	0,1 mL
DGJ012	2 mL	0.1 mL
DGJ013	5 mL	0.1 mL
DGJ014	5 mL	0.05 mL
DGJ015	10 mL	0.1 mL
DGJ016	25 mL	0.1 mL

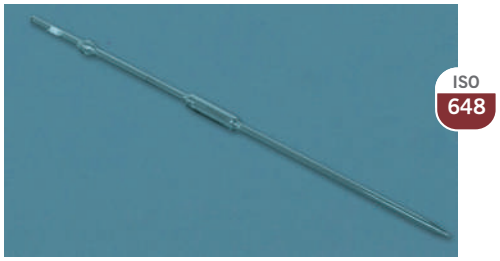
DGM - Plastic, sterile

Sterile serological pipettes

1 | Made of medical grade polystyrene. Gamma sterilized.
2 | DNAse and RNAse free and non-pyrogenic. Single package in plastic paper.

Code	Volume	Ø	Long	Ring colour	Pack
DGM020	1 mL	4,6 mm	270 mm	Yellow	B/100
DGM021	2 mL	6 mm	278 mm	Green	B/100
DGM022	5 mL	8,2 mm	340 mm	Blue	B/100
DGM023	10 mL	10 mm	340 mm	Orange	B/50
DGM024	25 mL	15 mm	311 mm	Red	B/25
DGM025	50 mL	18 mm	354 mm	Purple	B/25

DJB - 1 mark, class AS, with bulb



1 | Calibrated at 20 ºC with color code. Blue graduation.

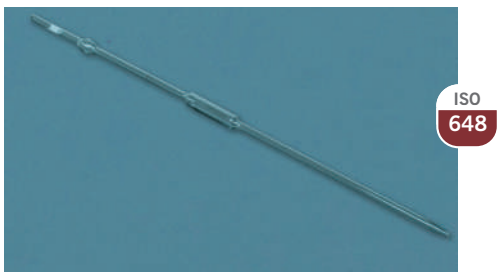
Code	Volume	Tolerance
DJB001	1 mL	±0.007 mL
DJB002	2 mL	+0.010 mL
DJB003	5 mL	±0.015 mL
DJB004	10 mL	±0.020 mL
DJB005	15 mL	±0.030 mL
DJB006	20 mL	±0.030 mL
DJB007	25 mL	±0.030 mL
DJB008	50 mL	±0.050 mL
DJB009	100 mL	±0.080 mL

DJD - 1 mark, class A, without bulb

1 | Calibrated at 20 ºC with color code. Blue graduation.

Code	Volume	Tolerance
DJD001	1 mL	±0.007 mL
DJD002	2 mL	±0.010 mL
DJD003	5 mL	±0.015 mL
DJD004	10 mL	±0.020 mL
DJD005	20 mL	±0.030 mL
DJD006	25 mL	±0.030 mL

DJG - 1 mark, class B, with bulb



1 | Calibrated at 20 ºC with color code. Amber graduation.

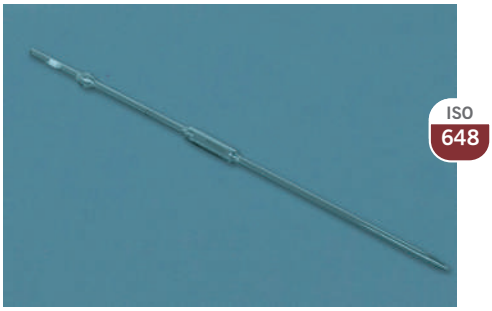
Code	Volume	Tolerance
DJG001	1 mL	±0.015 mL
DJG002	2 mL	±0.02 mL
DJG003	5 mL	±0.03 mL
DJG004	10 mL	±0.04 mL
DJG005	15 mL	±0.05 mL
DJG006	20 mL	±0.06 mL
DJG007	25 mL	±0.06 mL
DJG008	50 mL	±0.1 mL
DJG009	100 mL	±0.16 mL

DJJ - 1 mark, class B, without bulb

1| Calibrated at 20 ºC with color code. Amber graduation.

Code	Volume	Tolerance
DJJ001	1 mL	±0.015 mL
DJJ002	2 mL	±0.020 mL
DJJ003	5 mL	±0.030 mL
DJJ004	10 mL	±0.040 mL
DJJ005	11ml	±0.040 mL
DJJ006	20 mL	±0.060 mL
DJJ007	25 mL	±0.060 mL

DJP - 2 marks, class A, with bulb



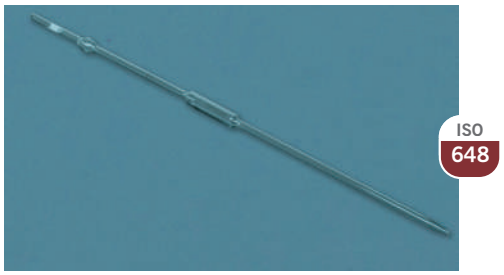
1| Calibrated at 20 ºC with color code. Blue graduation.

Code	Volume	Tolerance
Standard		
DJP001*	1 mL	±0.007 mL
DJP002*	2 mL	±0.010 mL
DJP003*	5 mL	±0.015 mL
DJP004*	10 mL	±0.020 mL
DJP005*	15 mL	±0.030 mL
DJP006*	20 mL	±0.030 mL
DJP007*	25 mL	±0.030 mL
DJP008*	50 mL	±0.050 mL
DJP009*	100 mL	±0.080 mL

* Class AS

With certificate		
DJP010	1 mL	±0.007 mL
DJP011	2 mL	±0.010 mL
DJP012	3 mL	±0.015 mL
DJP019	3 mL	±0.080 mL
DJP013	5 mL	±0.020 mL
DJP014	10 mL	±0.030 mL
DJP015	15 mL	±0.030 mL
DJP017	25 mL	±0.030 mL
DJP018	50 mL	±0.050 mL

DJR - 2 marks, class B, with bulb



1| Calibrated at 20 ºC with color code. Amber graduation.

Code	Volume	Tolerance
DJR001	1 mL	±0.015 mL
DJR002	2 mL	±0.02 mL
DJR003	5 mL	±0.03 mL
DJR004	10 mL	±0.04 mL
DJR005	20 mL	±0.06 mL
DJR006	25 mL	±0.06 mL
DJR007	50 mL	±0.1 mL
DJR008	100 mL	±0.16 mL

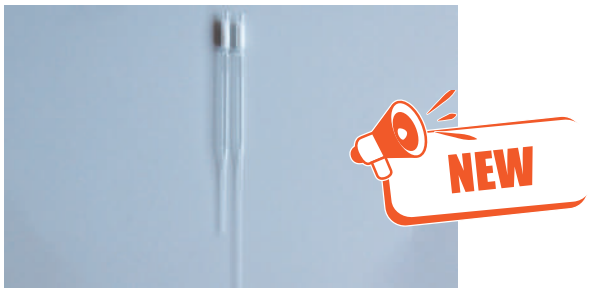
DLB - Pasteur pipettes

Glass Pasteur pipettes

1| With throttling in the suction pipe, long and fine tip. Non-sterile and non-graduated. Box of 250 units.

Code	Length
DLB001	150 mm
DLB002	230 mm

Pasteur Pipette with cotton



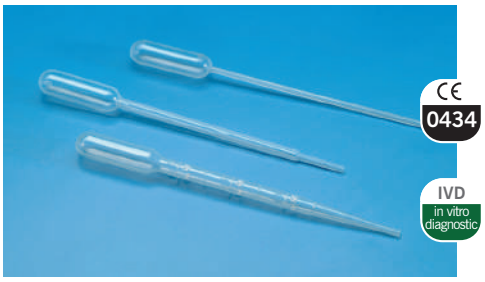
1| Made of glass. With constriction on the upper suction end. Long and thin tip. Non sterile and non graduated.

Code	Length	Volume	Pack
DLB020	150 mm	2 mL	B/250
DLB021	230 mm	2 mL	B/250

DLB - Pasteur pipettes

Plastic Pasteur pipettes, PE

Kartell



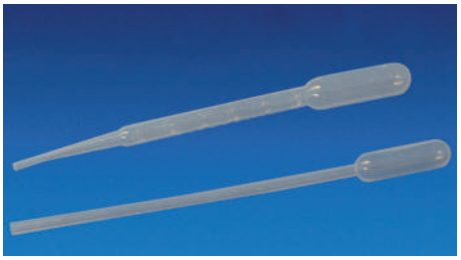
1| With suction pump and Graduation.
2| Available sterilized in single pack and non-sterilized in multiple pack.
3| Bags of 500 units; sterile pipettes supplied in individual bags.

Code	Length	Volume	Graduation
DLB005*	150 mm	1 mL	0,25 mL
DLB006*	150 mm	3 mL	0,50 mL
DLB007	150 mm	Micro, capillary	-
DLB008	150 mm	1 mL	0,25 mL
DLB009	150 mm	3 mL	0,50 mL

**sterile*

Plastic Pasteur pipettes

ENDO plasticware



1| Manufactured in single use polyethylene, not sterile. In bags of 500 units.

Code	Length	Volume	Graduation
DLB010	160 mm	1.0 mL	0,25 mL
DLB011	160 mm	3 mL	0,50 mL

Pasteur-type plastic with bellows, PE

Kartell

1| One-piece with integrated bellows suction system. Graduated and watertight. Bags of 100 pieces

Code	Length	Volume	Ø bar	Graduation
DLB003	134 mm	1,5 mL	8 mm	0,5 mL
DLB004	195 mm	5,0 mL	10 mm	1,0 mL

DLB - Pasteur pipettes

LDPE graded Pasteur pipette

ENDO plasticware

1| Made of low density polyethylene with good chemical stability. Transparent with graduation in relief. Free of DNase, RNase, pyrogens and endotoxins

Code	Length	Volume	Sterile	Pack
DLB022	65 mm	0,2 mL	No	B/1000
DLB023	85 mm	0,5 mL	No	C/1000
DLB024	145 mm	1 mL	No	C/500
DLB025	155 mm	2 mL	No	C/500
DLB026	155 mm	3 mL	No	C/500
DLB027	180 mm	3 mL, Long	No	C/500
DLB028	210 mm	5 mL	No	C/100
DLB029	300 mm	10 mL	No	C/100
DLB030	145 mm	1 mL	Yes	C/100
DLB031	155 mm	3 mL	Yes	C/100

DLD - Wine pipettes

Straight glass pipette for wine

ENDO glassware

1| To obtain samples from the barrel. Provided with two glass handles.

Code	Length	Volume	Diameter
DLD001	640 mm	350 mL	30 mm

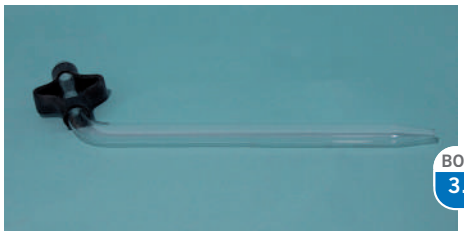
ENDO glassware

1| Pipette for extracting samples directly from wine barrels. With black rubber for a better grip.

Code	Length	Diameter
DLD007	50 cm	20-22 mm
DLD008	65 cm	20-22 mm

DLD - Wine pipettes

Curved pipettes

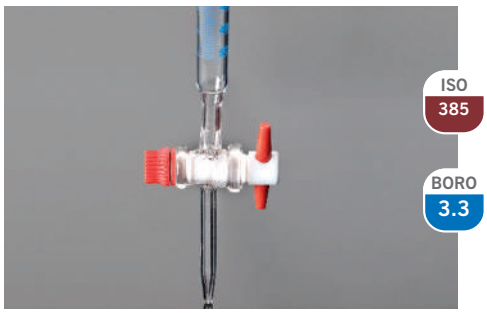


1| Pipette for extracting samples directly from wine barrels. With black rubber for a better grip.

Code	Length	Diameter
DLD002	25 cm	20-22 mm
DLD003	35 cm	20-22 mm
DLD004	45 cm	20-22 mm
DLD005	65 cm	20-22 mm

DNB - Type Mohr, PTFE stopcock

PTFE straight stopcock, AS class



1| Blue graduation.

Code	Volume	División	Tolerance
DNB001	10 mL	0.1 mL	± 0.03 mL
DNB002	25 mL	0.1 mL	± 0.05 mL
DNB003	50 mL	0.1 mL	± 0.05 mL

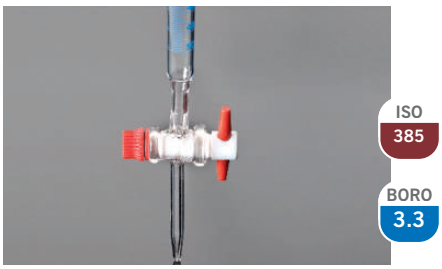
PTFE straight stopcock, A class

1| Amber graduation.

Code	Volume	Length	Graduation	Tolerance
DNB010	10 mL	600 mm	0.1 mL	± 0.03 mL
DNB011	25 mL	630 mm	0.1 mL	± 0.05 mL
DNB012	50 mL	785 mm	0.1 mL	± 0.05 mL

DNB - Type Mohr, PTFE stopcock

PTFE straight stopcock, Schellbach stripe and funnel neck, class AS



1| Blue graduation.

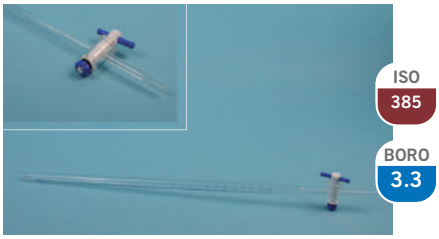
Code	Volume	Graduation	Tolerance
DNB004	10 mL	0,05 mL	± 0.03 mL
DNB005	25 mL	0,1 mL	± 0.05 mL
DNB006	50 mL	0,1 mL	± 0.05 mL

Neddle stopcock, Schellbach strip, AS class

1| Blue graduation.

Code	Volume	Graduation	Tolerance
DNB013	25 mL	0,1 mL	± 0.05 mL
DNB014	50 mL	0,1 mL	± 0.05 mL

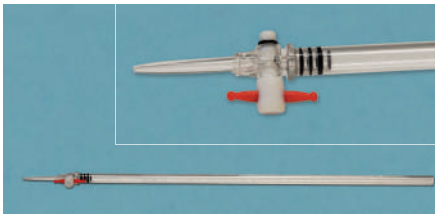
Straight stopcock, B class



1| DNB007 with blue graduation and DNB008 - DNB009 with amber graduation.

Code	Volume	Length	Graduation	Tolerance
DNB007	10 mL	600 mm	0.1 mL	± 0.05 mL
DNB008	25 mL	530 mm	0.1 mL	± 0.10 mL
DNB009	50 mL	755 mm	0.1 mL	± 0.10 mL

Straight key, Class B. Made of plastic

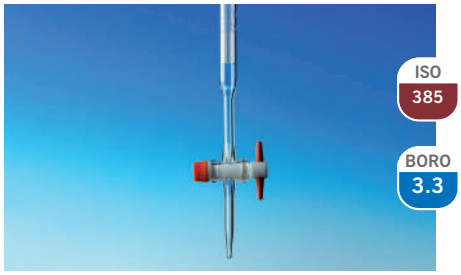


1| Transparent methacrylate (PMMA). White graduation. Detachable, straight neck.

Code	Volume	Length	Graduation
DNB015	25 mL	560 mm	0.1 mL
DNB016	50 mL	735 mm	0.1 mL

DNB - Type Mohr, PTFE stopcock

PTFE straight stopcock, class AS Schelbach stripe and funnel neck



1| Blue graduation.

Code	Volume	Graduation	Tolerance
DNB018	50 mL	0,1 mL	± 0.050 mL
DNB019	100 mL	0,2 mm	± 0.100 mL
DNB021	10 mL	0,05 mm	± 0.030 mL
DNB022	10 mL	0,1 mm	± 0.050 mL
DNB023	25 mL	0,1 mm	± 0.050 mL

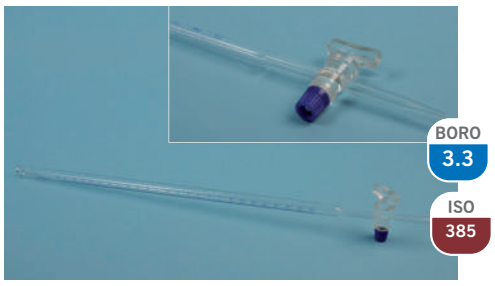
DND - Type Mohr, glass stopcock

Straight stopcock, class A

1| Blue graduation.

Code	Volume	Length	Graduation	Tolerance
DND005	10 mL	535 mm	0.1 mL	± 0.03 mL
DND006	25 mL	565 mm	0.1 mL	± 0.03 mL
DND007	50 mL	780 mm	0.1 mL	± 0.05 mL

Straight stopcock, class B



1| Blue graduation.

Code	Volume	Length	Graduation	Tolerance
DND002	10 mL	535 mm	0.1 mL	± 0.05 mL
DND003	25 mL	565 mm	0.1 mL	± 0.10 mL
DND004	50 mL	780 mm	0.1 mL	± 0.10 mL

DND - Type Mohr, glass stopcock

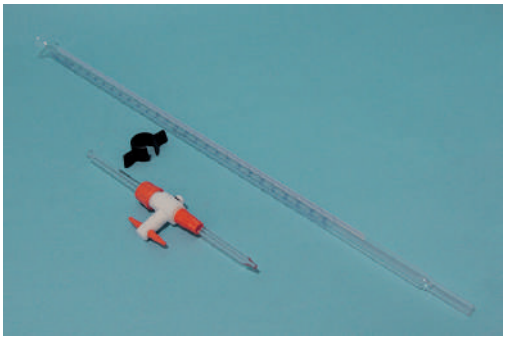
Straight glass stopcock and funnel mouth, class B

1| Amber graduation.

Code	Volume	Graduation
DND008	10 mL	0.1 mL
DND009	25 mL	0.1 mL
DND010	50 mL	0.1 mL
DND001	100 mL	0.2 mL

DNJ - Type Mohr, accessories

Tube for Mohr burette with PTFE stopcock



Code	Volume	Graduation
DNJ018	25 mL	1/20
DNJ019	50 mL	1/20

Tube for MOHR AS burette Schellbach strip, class AS

1| Burette without stopcock Class AS. Schellbach stripe burette with blue graduation. With funnel on top.
2| Individually packed in a cardboard box.

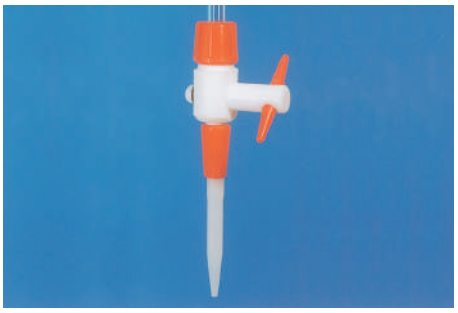
Code	Volume	Graduation
DNJ013	25 mL	1/10
DNJ014	25 mL	1/20

1| With Schellbach fringe and funnel mouth.

Code	Volume	Graduation
DNJ015	10 mL	1/10
DNJ016	25 mL	1/10
DNJ017	50 mL	1/10

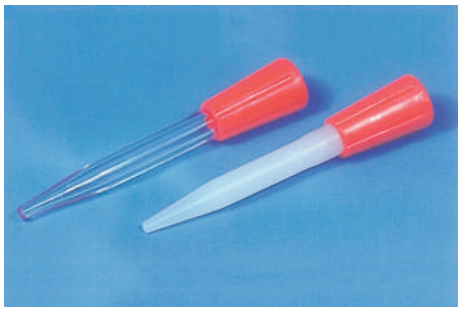
DNJ - Type Mohr, accessories

Stopcock + tip for burette Mohr



Code	Point	Size	Diameter
DNJ008	PP	12,5 mm	2 mm
DNJ009	Glass	12,5 mm	2 mm

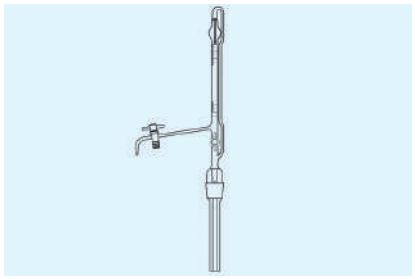
Mohr Buret Tips



Code	Description
DNJ011	Replacement tip PP stopcocks-Burets
DNJ012	Glass tip

DNM - Type Pellet

PTFE burette, amber glass

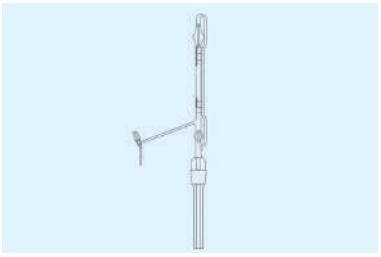


1| Class AS, blue graduation. With enameled band for easy reading. PTFE side key and intermediate glass key.

Code	Capacity	Graduation
DNM010	10 mL	1/50
DNM011	25 mL	1/20
DNM012	25 mL	1/10
DNM013	50 mL	1/10
DNM014	100 mL	1/5

DNM - Type Pellet

Pellet-type automatic burettes



1| Class AS. Blue graduation. With Schellbach band for easy reading Lateral stopcock in PTFE and intermediate stopcock in glass. Flask compatible with ground glass 29/32 (DNP001)

Code	Volume	Graduation
DNM001	10 mL	1/10
DNM002	10 mL	1/20
DNM003	10 mL	1/50
DNM004	25 mL	1/20
DNM005	25 mL	1/10
DNM006	50 mL	1/10
DNM007	100 mL	1/5

DNP - Type Pellet, accessories

Reservoir bottles

Code	Colour	Volume
DNP001	Transparent	2000 mL
DNP002	Amber	2000 mL

DNR - Type Schilling

Schilling titration burette

1| Glass burette

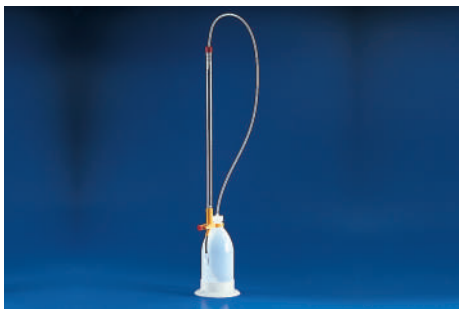
Code	Volume	Graduation	With bottle	Tolerance
DNR005	10 mL	0.05 mL	500 mL	±0,040 mL
DNR006	25 mL	0.1 mL	1000 mL	±0,075 mL
DNR007	50 mL	0.1 mL	1000 mL	±0,100 mL

DNR - Type Schilling

Automatic glass burette, Class B

1| With Plastic Clamp, Stand and PTFE PIPE Schellbach stripe for accurate meniscus reading.
2| With Plastic Bottle 1000 mL

Code	Burette volume	Graduation	Tolerance
DNR011	10 mL	0.05 mL	± 0.05 mL
DNR012	25 mL	0.10 mL	± 0.10 mL
DNR013	50 mL	0.10 mL	± 0.10 mL



1| Made of PE/PMP.
2| According to DIN 12700. Push button for drop by drop. Supplied with 1 litre capacity bottle.

Code	Volume	Graduation
DNR001	25 mL	0.1 mL
DNR002	50 mL	0.1 mL

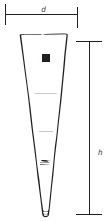
DQB - Imhoff cones, glass

Code: DQB002

Code: DQB001

BORO 3.3

DIMENSIONS



d: Width
h: Height

Code	Volume	Ø upper	Height
DQB001	1000 mL	118 mm	470 mm
DQB002*	1000 mL	118 mm	470 mm

**with key*

DQD - Imhoff cones, plastic

1| Permanently moulded graduations. Back flush cleaning easily effected. PP screw plug in the baseMaterial: SAN

Code	Volume	Ø upper	Height
DQD001	1000 mL	125 mm	480 mm

DQF - Supports

1| For Imhoff cones, in PMMA (trasparent methacrylate).

Code	Spaces	Dimensions
DQF001	2	150x300x294 mm

NEW
SPECTROPHOTOMETER

CODE - HJB008

Developed for water analysis using Chemetrics brand instrumental kits.

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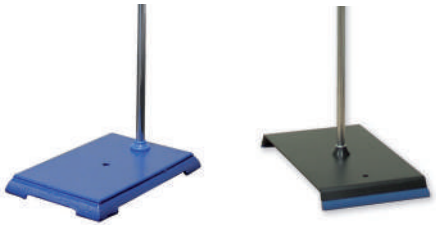
FCB - Supports

A-shaped support

1| Base in oven-painted cast steel, chrome-plated steel rod. Rubber on the base for good stability.

Code	Base	Rod (LxØ)
FCB001	200x30 mm	600x10 mm

Retort stand



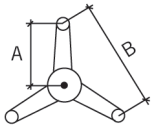
1| Base made of reinforced sheet metal, chrome-plated steel rod.

Code	Material	Colour	Base	Rod (LxØ)
FCB006	Reinforced	Black	175x100 mm	500x10 mm
FCB007	Reinforced	Black	225x125 mm	600x10 mm
FCB008	Reinforced	Black	250x150 mm	600x10 mm
FCB009	Reinforced	Black	300x150 mm	900x10 mm
FCB022	Cast iron	Blue	200x135 mm	600x10 mm
FCB023	Cast iron	Blue	300x175 mm	600x10 mm
FCB025	Cast iron	Blue	115x75 mm	500x10 mm

Code	Material	Colour	Base	Rod (LxØ)
FCB024	Cast iron	Blue	200x125 mm	600x10 mm
FCB028	Cast iron	Blue	160x100 mm	500x10 mm
FCB029	Cast iron	Blue	250x160 mm	600x10 mm

Tripod support stand

DIMENSIONS



Code	Colour	Dimensions	Rod (LxØ)
FCB010	Blue	110x170 mm	600x10 mm
FCB011	Blue	135x210 mm	700x10 mm
FCB012	Blue	175x300 mm	800x10 mm
FCB013	Blue	85x130 mm	500x10 mm

FCB - Supports

Base with rods

1| Polypropylene with chromed steel rods. Each base is provided with two rods, they can be joined together on top of each other to achieve the desired length.

Code	Dimensions	Rod (LxØ)	Hole
FCB018	293x147x14 mm	250x12 mm	Central
FCB019	293x147x14 mm	250x12 mm	Lateral

H shape support

1| Cast iron base painted in blue, 500x250 mm. With rubber feet.
2| Consisting of:
- 3 vertical rods
- 2 horizontal rods
- 6 bossheads

Code	Dim. vertical rods	Dim. horizontal rods
FCB031	10x800 mm	10x500 mm
FCB032	12x800 mm	12x500 mm

Bench clamp

1| Cast Attaches to the workbench. Suitable for bench tops up to 40 mm wide.
2| Holds rods of 4-12 mm diameter.

Code	FCB033

FCB - Supports

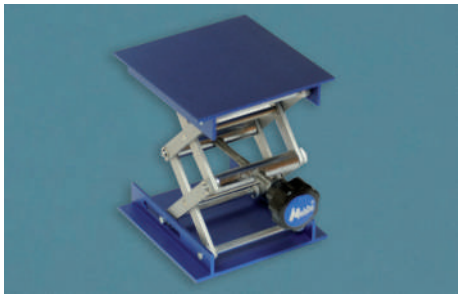
Burette stand

1| With AISI 304 stainless steel rod of 10 mm Ø x 600 mm high. Weight 2 Kg.
2| Made specifically for the "DUPLEX" burette clamp with two plates at the base, black and white.

Code	Base dimensions	Weight
FCB513	170 mm	2 Kg

FCD - Laboratory jacks

Laboratory jack, aluminum



1| Made of aluminium with scissor-type support. With manual knob and anti-skid legs.

Code	Dimensions	Max. load	Height
FCD001	100x100 mm	14 kg	40-140 mm
FCD002	150x150 mm	27 kg	50-270 mm
FCD003	200x200 mm	38 kg	50-320 mm

Laboratory jack, stainless steel

NEW

1| Made of of stainless steel AISI 304 with scissor-type support. With manual knob and anti-skid legs.

Code	Dimensions	Max. load	Height
FCD004	100x100 mm	45 kg	55-140 mm
FCD005	150x150 mm	60 kg	65-250 mm
FCD006	200x200 mm	60 kg	65-250 mm
FCD007	250x250 mm	75 Kg	70-385 mm
FCD008	300x300 mm	75 Kg	70-385 mm

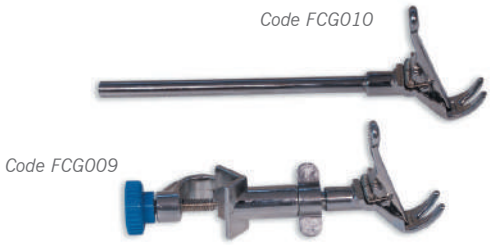
FCG - Clamps for burettes, tubes

Clamp 2 prongs

1| Made of chromed metal and PVC coated tips.

Code	Opening	Length	Rod	Lot
FCG001	12-45 mm	210 mm	No	2
FCG002	20-60 mm	220 mm	No	2
FCG003	7-25 mm	205 mm	No	-
FCG004	12-45 mm	110 mm	Fixed up to 17 Ø mm	2
FCG005	4-20 mm	100 mm	Fixed up to 14 Ø mm	2
FCG006	7-25 mm	100 mm	Fixed up to 14 Ø mm	2
FCG007	12-45 mm	155 mm	Rotary up to 18 Ø mm	-
FCG008	7-25 mm	150 mm	Rotary up to 18 Ø mm	-

Automatic clamp



1| Made of chromed metal, suitable for holding burettes and thermometers. Spring closure.

Code	Opening	Length	Rod (ØxL)	Lot
FCG009*	0-25 mm	110 mm	-	2
FCG010	0-25 mm	160 mm	8x120 mm	2

** with bosshead*

Clamp for 1 burette, aluminium

1| Made of aluminium.

Code	Opening	Colour
FCG011	Up to 20 mm	White

FCG - Clamps for burettes, tubes

Double clamp for burettes

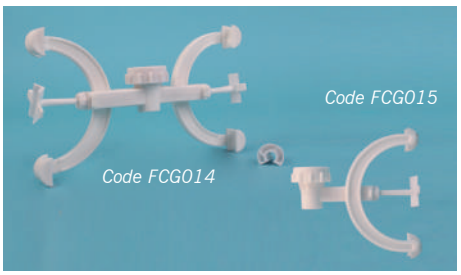
Code FCG013

Code FCG012

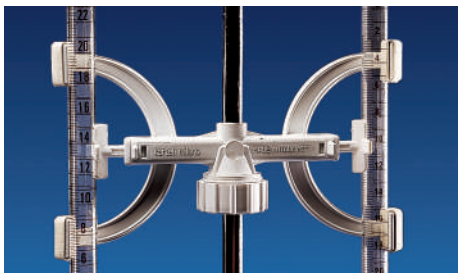
1| With bosshead for rods up to 13 mm diameter.

Code	Material	Colour
FCG012	Aluminium	White
FCG013	Plastic	White

Clamp for burettes, PP



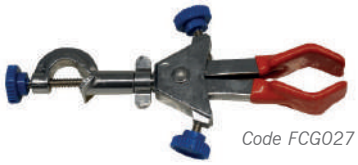
Code	Capacity	For rods	Lot
FCG014	2 burettes	10 to 12 mm	6
FCG015	1 burette	10 to 12 mm	6



1| Equipped with a stainless steel spring.

Code	Capacity	Ø rod	Lot
FCG016	1 burette	10/14 mm	5
FCG017	2 burettes	10/14 mm	5

Two prong double adjust swivel clamp


Code FCG027

NEW

1| Made of chromed zinc alloy. PVC covered jaw
2| This clamp has an integrated holder for attaching to a lab-frame or other apparatus. Shaft wing-nut allows the holding angle to be adjusted through 360° of rotation to achieve the desired position.

Code	Grip size
FCG026	40 mm
FCG027	65 mm

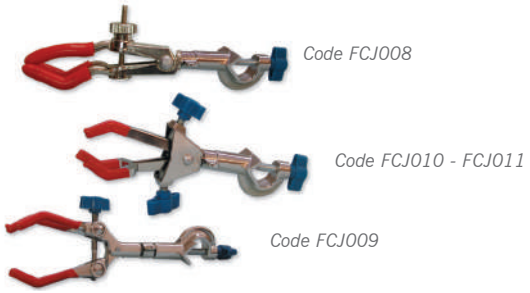
FCJ - Clamps, 3-4 prongs

Clamp 3 prongs without bosshead

1| Made of aluminium.

Code	Opening	Lenght	Adjustment	Rod (ØxL)
FCJ001	0-30 mm	175 mm	Simple	8x125 mm
FCJ002	0-70 mm	240 mm	Simple, red	8x150 mm
FCJ004	0-95mm	240 mm	Simple, blue	12x180 mm
FCJ005	0-95mm	240 mm	Simple, blue	8x150 mm
FCJ006	0-50mm	210 mm	Double	10x140 mm
FCJ007	0-85 mm	250 mm	Double	12x155 mm

Clamp 3 prongs with bosshead



1| In chromed metal, with PVC coated fingertips. Rotating bosshead for rods up to 18 mm.

Code	Opening	Lenght	Adjustment
FCJ008	0-30 mm	125 mm	Simple
FCJ009	0-70 mm	165 mm	Simple
FCJ010	0-60 mm	145 mm	Double
FCJ011	0-90 mm	170 mm	Double

Clamp 4 prongs with and without bosshead

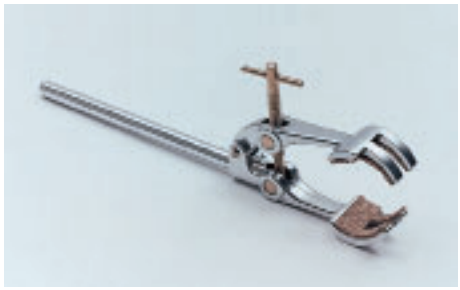
1| Made of chrome-plated metal, with coated tips. Opening 0-80 mm. The model with a swivel bosshead accepts rods up to 18 mm in diameter

Code	Opening	Bosshead	Rod (ØxL)
FCJ012	0-80 mm	No	8x155 mm
FCJ013	0-80 mm	No	10x130 mm*
FCJ014	0-80 mm	No	12x145 mm
FCJ015	0-80 mm	Rotary	-
FCJ016	0-100 mm	No	10x165 mm
FCJ017	0-100 mm	No	12x165 mm

Adjustable angle 180°

FCJ - Clamps, 3-4 prongs

Clamp universal "MINIMAX



1 | With cork coated jaws. Suitable for heavy items. T-wrench.

Code	For Ø	Lenght	Material
FCJ503	0-80 mm	210 mm	Dur-Aluminium traité

FCK - Clamps, special

For thermometers

Code - FCK001

Code - FCK002

1 | Made of chromeplated metal. For rods up to 18 mm.

Code	Length	Opening	Bosshead	Lot
FCK001	140 mm	6-15 mm	Rotary	2
FCK002*	130 mm	-	Fixed	2

** with a hook*

Chain clamp for big diameters

1 | Made of stainless steel. Provided with chain and spring clamp.

Code	For diameters	Ø rod
FCK003	90/145 mm	12 mm
FCK004	90/146 mm	16 mm

FCM - Clips for ground joints

Clip for tapered joints

1 | Made of chromeplated steel, for conical grinding.

Code	Joints	Lot
FCM001	10/19	5
FCM002	14/23	10
FCM003	19/26	10
FCM004	24/29	10
FCM005	29/32	10
FCM006	34/35	10

Plastic (POM) clip

Code	Colour	Joint	Lot
FCM007	Yellow	14/23	10
FCM008	Blue	19/26	10
FCM011	Green	24/29	10
FCM010	Red	29/32	10
FCM024	Orange	34/35	10
FCM025	Ochre	40/38	10
FCM009	Brown	45/40	10

Code	Colour	Joint	Lot
FCM012	Black	10/19	10
FCM013	Yellow	14/23	10
FCM014	Blue	19/26	10
FCM015	Green	24/29	10
FCM016	Red	29/32	10
FCM017	Orange	29/32	10
FCM018	Brown	29/32	10

** consult us for other ground*

FCM - Clips for ground joints

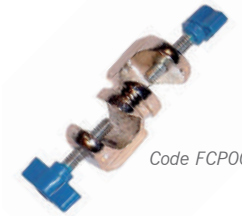
Spherical joint clamp

1| Made of stainless steel, with maximum security screw lock. For fastening of swivel-type ground joints.

Code	For joint
FCM019	R-13
FCM020	R-19
FCM021	R-29
FCM022	R-35

FCP - Bossheads

Double bosshead



Code FCP009

Code FCP010

1| They allow the mounting of instruments at a 90° angle.

Code	Description	Lenght	Rods
FCP001	Painted small	53 mm	13 mm
FCP002	Painted medium	70 mm	16 mm
FCP003	Painted big	84 mm	21 mm
FCP004	Painted extra big	97 mm	25 mm
FCP005	Zinc-plated small	53 mm	13 mm
FCP006	Zinc-plated medium	70 mm	16 mm
FCP007	Zinc-plated big	84 mm	21 mm
FCP008	Zinc-plated extra big	97 mm	25 mm
FCP009	Zinc-plated curved	100 mm	16 mm
FCP010	Painted	100 mm	16 mm

Bosshead Phywe model

1| Metallic, cross arrangement.

Code	Colour	Length	Rods up to
FCP013	Gray	170 mm	24 mm

FCP - Bossheads

Rotary double bosshead

Code	Rods up to
FCP011	20/13 mm
FCP012	18 mm

Universal bosshead

Code FCP014

Code FCP015

1| For parallel, perpendicular and 'T' shaped mounts.

Code	Colour	Lenght	Rods up to
FCP014	Chromed	55 mm	16 mm
FCP015	Painted	55 mm	16 mm

Bosshead for assemblies

Trevin type

P type

1| Bosshead type 'P': for the assembly of two right-angled rods.
2| Bosshead type 'Trevin': for the assembly of multiple supports and in 3 different angles.

Code	Model	Rods
FCP016	P type	10 mm
FCP017	P type	12 mm
FCP018	P type	14 mm
FCP019	P type	16 mm
FCP020	Trevin	9-13 mm

Double Bosshead

1| In chromed metal.

Code	Rods ø
FCP503	5 to 17 mm

FCR - Rings, open

Open retort ring with shank

1| Open ring without bosshead, made of chromed steel. For plate stand, tripod stand etc.

Code	Ø external	Ø internal	Ø Shank	Long. (center)
FCR001	60 mm	45 mm	7 mm	180 mm
FCR002	80 mm	65 mm	8 mm	195 mm
FCR003	100 mm	85 mm	7 mm	200 mm
FCR004	120 mm	105 mm	8 mm	215 mm

With bosshead, chromed steel

1|Open retort ring with bosshead. Made of chromium plated steel. For retort stand, tripod stands, etc.

Code	Ø external	Ø internal	Ø Shank	Long. (center to cener)
FCR009	50 mm	36 mm	7 mm	95 mm
FCR010	80 mm	65 mm	7 mm	130 mm
FCR011	100 mm	85 mm	8 mm	130 mm
FCR012	130 mm	115 mm	7 mm	110 mm

FCV - Rings, closed

Retort ring with shank closed, chromeplated steel

1| Closed ring without bosshead, made of chromed steel. For plate stand, tripod stand etc.

Code	Ø external	Øinternal	Ø Shank	Total lenght
FCV001	60 mm	45 mm	7 mm	200 mm
FCV002	80 mm	65 mm	7 mm	225 mm
FCV003	100 mm	85 mm	8 mm	250 mm
FCV004	120 mm	105 mm	8 mm	255 mm

FCV - Rings, closed

With nut, chrome-plated steel

1| Closed ring with nut, made of chrome-plated steel. For supports such as plate feet, tripod feet, etc.

Code	Ø external	Ø internal	Ø Shank	Long. (center to cener)
FCV005	50 mm	36 mm	7 mm	110 mm
FCV006	80 mm	65 mm	8 mm	110 mm
FCV007	120 mm	105 mm	8 mm	150 mm
FCV008	135 mm	120 mm	10 mm	150 mm

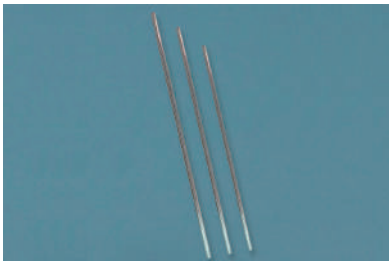
FCY - Rods without thread

Rod for supports

1| Chrome-plated iron bar. For supports FCB018 and FCB019.

Code	Diameter	Lenght
FCY001	12 mm	25 cm

Rod for assemblies



Code	Material	Diameter	Lenght
FCY002	Chromed	12 mm	60 mm
FCY003	Chromed	12 mm	200 mm
FCY004	Chromed	12 mm	350 mm
FCY005*	Chromed	12 mm	700 mm
FCY006*	Chromed	12 mm	1000 mm
FCY007*	Chromed	12 mm	2000 mm
FCY008	Aluminium	12 mm	60 mm
FCY011*	Aluminium	12 mm	700 mm
FCY012*	Aluminium	12 mm	1000 mm
FCY014	Stainless steel	12 mm	60 mm
FCY015	Stainless steel	12 mm	200 mm

these references have additional shipping charges. On request.

FCY - Rods without thread

Rod for supports

1| Fits on to the main body of the hotplate. Suitable for the circular.
2| Threaded rod.

Code	Rod of	Height
FCY501	12 mm Ø	500 cm

FFB - Tripod stands

Round

1| Round section ring, with rubber tips on the legs.

Code	Material	Diameter	Height
FFB001	Steel	125 mm	200 mm
FFB002	Steel	150 mm	200 mm
FFB003	Steel	200 mm	200 mm
FFB004	Stainless steel	120 mm	200 mm
FFB005	Stainless steel	150 mm	200 mm

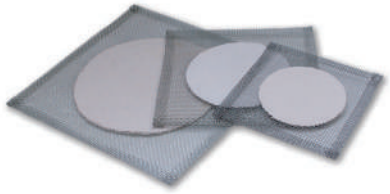
Triangular

1| Rings and legs made of chromeplated steel, with rubber tips on the legs.

Code	Material	Diameter	Height
FFB007	Steel	125 mm	200 mm
FFB008	Steel	150 mm	200 mm
FFB009	Steel	200 mm	200 mm

FFD - Gauze iron wires

Iron Wire Gauze



1| With ceramic fibre center, without asbestos. For heating substances with Bunssen.

Code	Side lenght	Ø ceramic	Lot
FFD001	12x12 cm	80 mm	**20**
FFD002	15x15 cm	100 mm	**20**
FFD006	16x16 cm	110 mm	**20**
FFD007	18x18 cm	130 mm	**20**
FFD003	20x20 cm	145 mm	**20**

FFG - Triangles

Pipeclay triangle

1| Made up of three tubes of refractory clay based on silimanite. Linked in the form of a triangle by thick galvanised metal wires.
2| For holding the crucibles during the calcination process.

Code	Side lenght	Ø tube
FFG001	30 mm	9 mm
FFG002	50 mm	8 mm
FFG003	65 mm	8 mm
FFG004	90 mm	8 mm

FFJ - Burners

Alcohol lamp system

Code	Description
FFJ002	Alcohol lamp safety system
FFJ010	Meter of wicks for safety alcohol lamp 100 mL FFJ002
FFJ017	Spare wicks for alcohol lamp, 4 mm (10x10 cm)

FFJ - Burners

Micro Bunsen burner, natural gas

1| With gas and air flow control valve. Connection by means of serrated conical joint.

Code	Description
FFJ003	Micro Bunsen burner, natural gas
FFJ004	Micro Bunsen burner, LPG
FFJ005	Bunsen burner, natural gas
FFJ006	Bunsen burner, LPG

1| Epoxy-coated steel base with anti-scratch PVC ring. With screw key and flame stabilizer. CE compliant with directive 90/396.

Code	Connection	Tube (Ø X height)	Gas type
FFJ019	Olive	11x130 mm	Liquid gas (LPG)
FFJ020	Olive	11x130 mm	Natural gas
FFJ021	Olive	11x150 mm	Poligas
FFJ030	Threaded ¼"	11x130 mm	Liquid gas (LPG)
FFJ031	Threaded ¼"	11x130 mm	Natural gas
FFJ032	Threaded ¼"	11x150 mm	Poligas

Safety Bunsen burners

1| Equipped with a safety valve homologated and controlled by a thermocouple that cuts off the gas supply in case of accidental extinguishing of the flame.
2| Epoxy-coated steel base with anti-scratch PVC ring. With screw key and flame stabilizer. CE compliant with directive 90/396.

Code	Connection	Tube (Ø X height)	Gas type
FFJ022	Olive	11x130 mm	Liquid gas (LPG)
FFJ023	Olive	11x130 mm	Natural gas
FFJ024	Olive	11x150 mm	Poligas
FFJ033	Threaded ¼"	11x130 mm	Liquid gas (LPG)
FFJ034	Threaded ¼"	11x130 mm	Natural gas
FFJ035	Threaded ¼"	11x150 mm	Poligas

FFJ - Burners

Sekur-flame bunsen burner with piezoelectric ignition

1| Equipped with a safety valve homologated and controlled by a thermocouple that cuts off the gas supply in case of accidental extinguishing of the flame.
2| Epoxy-coated steel base with anti-scratch PVC ring. Equipped with a piezoelectric ignition system. CE compliant with directive 90/396.

Code	Connection	Gas type	Ø base	Height
FFJ026	Olive	Liquid gas (LPG)	90 mm	150 mm
FFJ027	Olive	Natural gas	90 mm	150 mm
FFJ036	Threaded ¼"	Liquid gas (LPG)	90 mm	150 mm
FFJ037	Threaded ¼"	Natural gas	90 mm	150 mm

Mecheros Meker

1| With grid, key and air regulator. Epoxy-coated steel base with anti-scratch PVC ring.
2| CE compliant with directive 90/396.

Code	Connection	Gas type	Ø base	Height
FFJ028	Olive	Liquid gas (LPG)	90 mm	150 mm
FFJ029	Olive	Natural gas	90 mm	150 mm
FFJ038	Threaded ¼"	Liquid gas (LPG)	90 mm	150 mm
FFJ039	Threaded ¼"	Natural gas	90 mm	150 mm

FFL - Tongs for crucibles, capsules

1| With neck and serrated curved tips for secure grip.

Code	Total lenght	Material	Aperture
FFL001	150 mm	Chromeplated steel	20 mm
FFL002	200 mm	Chromeplated steel	28 mm
FFL003	250 mm	Chromeplated steel	32 mm
FFL004	300 mm	Chromeplated steel	32 mm
FFL005	350 mm	Chromeplated steel	32 mm
FFL006	400 mm	Chromeplated steel	40 mm
FFL007	450 mm	Chromeplated steel	40 mm
FFL009	200 mm	Stainless steel	25 mm
FFL010	250 mm	Stainless steel	28 mm
FFL011	300 mm	Stainless steel	32 mm

FFL - Tongs for crucibles, capsules

Evaporating dish tongs

1| For porcelain capsules or other flat-bottomed containers

Code	Total lenght	Aperture
FFL012	260 mm	65/190 mm

FFN - Tongs for beakers, tubes

Beaker tong, 2 and 3 prongs

1| Made of chromed steel, with PVC tips for a better grip.

Code	Model	Aperture	Length
FFN001	2 prongs	50/150 mm	260 mm
FFN002	3 prongs	0/160 mm	250 mm
FFN003	3 prongs	0/220 mm	300 mm

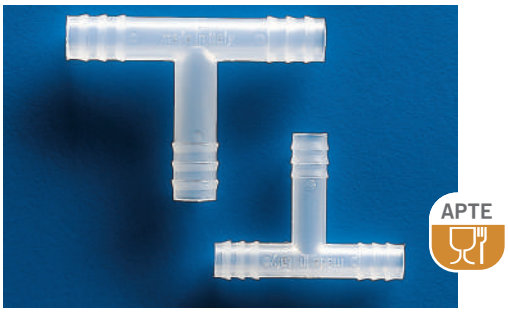
For test tubes

1| For tubes up to 25 mm in diameter.

Code	Material	Long	Lot
FFN005	Acero	150 mm	**10**
FFN006	Wood	180 mm	**10**

FHB - Connectors

'T' connector, PP

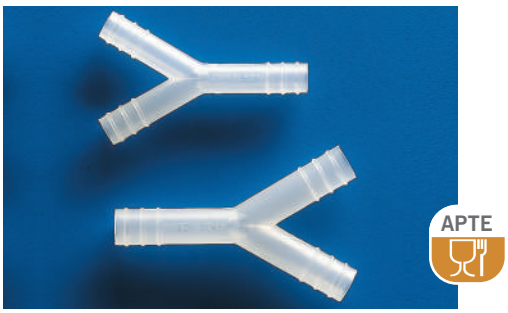


Code (pack 100)	Code (pack 10)	Ø outer nominal	Ø interior
FHB017	FHB087	4 mm	1,6 mm
FHB018	FHB088	6 mm	3,7 mm
FHB019	FHB089	8 mm	4,4 mm
FHB015	FHB090	10 mm	6,3 mm
FHB016	FHB091	12 mm	8,2 mm
FHB020	FHB092	14 mm	10 mm
FHB021	FHB093	16 mm	12,1 mm

Y connectors, PP

Code (pack 100)	Code (pack 10)	Ø outer nominal	Ø interior
FHB025	FHB107	4-5-6 mm	1,5 mm
FHB026	FHB108	6-7-8 mm	2,7 mm
FHB027	FHB109	8-9-10 mm	4,7 mm
FHB022	FHB110	10-11-12 mm	5,5 mm
FHB023	FHB111	12-13-14 mm	7,6 mm
FHB024	FHB112	14-15-16 mm	9,6 mm

Unión forma 'Y', PP

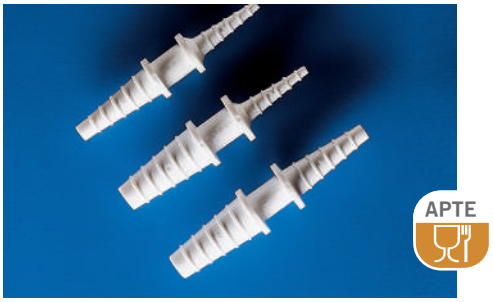


Code (pack 100)	Code (pack 10)	Ø outer nominal	Ø interior
FHB030	FHB094	4 mm	2,0 mm
FHB031	FHB095	6 mm	2,7 mm
FHB034	FHB096	8 mm	4,6 mm
FHB028	FHB097	10 mm	5,5 mm
FHB029	FHB098	12 mm	7,3 mm
FHB032	FHB099	14 mm	9,7 mm
FHB033	FHB100	16 mm	11,9 mm

FHB - Connectors

For tubes with different diameters, PP

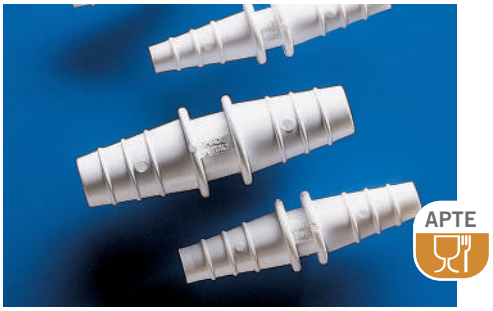
Kartell



Code (pack 100)	Code (pack 10)	Ø outer nominal	Ø interior
FHB047	FHB116	4-6-8/10-12 mm	1,6/4,6 mm
FHB048	FHB117	4-6-8/12-14-16 mm	1,6/7,5 mm
FHB049	FHB118	8-10-12/14-16 mm	4,6/7,5 mm

Linear connection 1 piece, PP

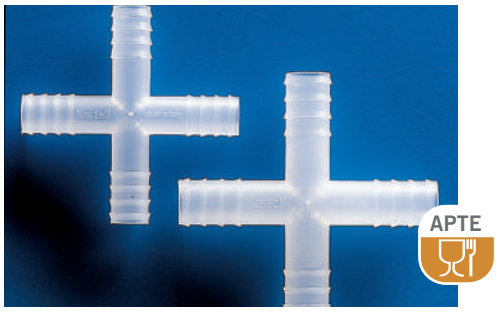
Kartell



Code (pack 100)	Code (pack 10)	Ø outer nominal	Ø interior
FHB038	FHB101	4-5-6 mm	2 mm
FHB039	FHB102	6-7-8 mm	3,5 mm
FHB040	FHB103	8-9-10 mm	4,5 mm
FHB035	FHB104	10-11-12 mm	6,5 mm
FHB036	FHB105	12-13-14 mm	8,5 mm
FHB037	FHB106	14-15-16 mm	10,5 mm

4 way connectors PP

Kartell

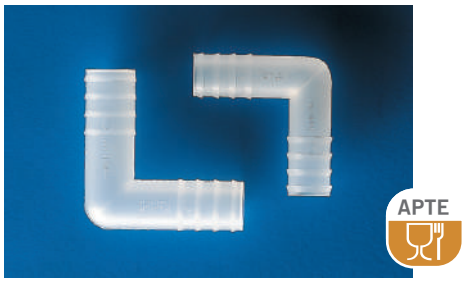


Code (pack 100)	Code (pack 10)	Ø outer nominal	Ø interior
FHB005	FHB077	3,5 mm	1,5 mm
FHB006	FHB078	6 mm	2,7 mm
FHB007	FHB079	8 mm	4,6 mm
FHB001	FHB080	10 mm	7 mm
FHB002	FHB081	12 mm	8 mm
FHB003	FHB082	13,5 mm	9,5 mm
FHB004	FHB083	15 mm	11,60 mm

FHB - Connectors

L connectors PP

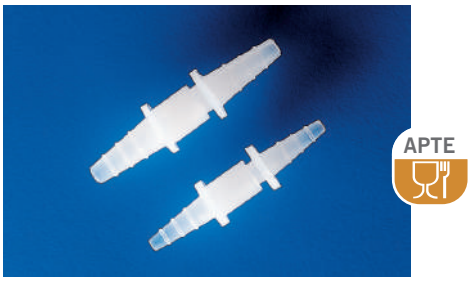
Kartell



Code (pack 100)	Code (pack 10)	Ø outer nominal	Ø interior
FHB012	FHB070	4 mm	1,3 mm
FHB013	FHB071	6 mm	2,5 mm
FHB014	FHB072	8 mm	4,5 mm
FHB008	FHB073	10 mm	6 mm
FHB009	FHB074	12 mm	8 mm
FHB010	FHB075	14 mm	10,5 mm
FHB011	FHB076	16 mm	11,6 mm

Disconnector PE

Kartell



Code (pack 100)	Code (pack 10)	Ø outer nominal	Ø interior
FHB042	FHB084	4-5-6 mm	1,6 mm
FHB043	FHB085	6-7-8 mm	2,7 mm
FHB044	FHB086	8-9-10 mm	3,6 mm
FHB045	FHB113	10-11-12 mm	5,5 mm
FHB046	FHB114	12-13-14 mm	7,3 mm
FHB041	FHB115	14-15-16 mm	8,8 mm

FHD - Clamps

Hoffman

Nahita

1| For compressing latex tubes andjusting flow. Compressor screw and base with two positions.

Code	Aperture	Material
FHD001	12 mm	Nickel plated metal
FHD002	17 mm	Nickel plated metal
FHD003	20 mm	Nickel plated metal
FHD004	25 mm	Nickel plated metal
FHD005	30 mm	Nickel plated metal
FHD006	40 mm	Nickel plated metal

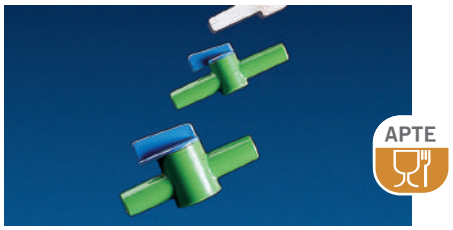
FHD - Clamps

Mohr

Code	Lenght	Material
FHD007	40 mm	Nickel plated metal
FHD012	45 mm	Nickel plated metal
FHD008	50 mm	Nickel plated metal
FHD009	60 mm	Nickel plated metal
FHD010	70 mm	Nickel plated metal
FHD011	80 mm	Nickel plated metal

FHG - Valves and indicators

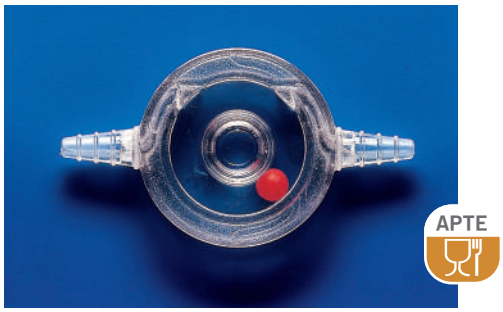
Interception taps, PP and HDPE



1| Ideal for liquids and gases under low pressure or low vacuum.

Code	Ø outer nominal	Bore	Lot
FHG004	8 mm	4,9 mm	**10**
FHG001	10 mm	7 mm	**10**
FHG002	14 mm	10,9 mm	**10**
FHG003	16 mm	12,7 mm	**10**

Flow indicator

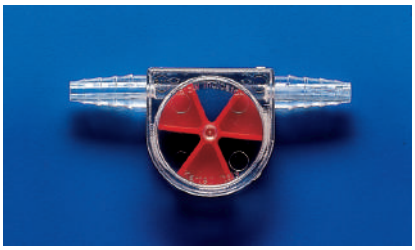


1| For liquids of 50 mL/min in horizontal position and 140 mL/min in vertical position.
2| Minimum air flow 3l/min in horizontal position and 8 l/min in vertical position.
3| Avoid the use of corrosive liquids or at temperatures above 50 ºC.

Code	Dimensions	Ø outer conexiones
FHG005	102x14x57 mm	6,5 / 10 mm

FHG - Valves and indicators

Flow indicator, paddle wheel



1| For liquids up to 5 mL/s. Recommended maximum flow rate up to 95 mL/s, maximum pressure 2 bar.
2| Can be used with gases.
3| Avoid the use of corrosive liquids or at temperatures above 85 ºC.

Code	Dimensions	Ø outer conexiones
FHG006	90x15x40 mm	6 / 11 mm

FHL - Tubing for peristaltic pumps

NORPRENE® A-60-G tube

1| Very good chemical and abrasion resistance.
2| Density= 0,98
3| Shore hardness=61.
4| Temperature from -60°C to +135°C.
5| Thermoweldable and thermodeformable. Low gas permeability compared to rubber pipes.

Code	Ø int.	Ø ext.	Thickness	Roll
FHL020	3,20 mm	6,40 mm	1,60mm	15 m
FHL022	4,80 mm	8,00 mm	1,60mm	15 m
FHL025	6,40 mm	9,60 mm	1,60mm	15 m
FHL030	8,00 mm	12,80 mm	2,40mm	15 m

** Other dimensions available CONSULT*

FHN - Tubing for laboratory

Orange rubber tube K32

Kartell

1| Used to transfer non-corrosive gases or liquids, acids of medium concentration. Temperature: -35 °C+70 °C.

Code	Dimensions (Øint. x Øext.)	Roll
FHN082	3x5 mm	10 m
FHN083	4x7 mm	10 m
FHN084	5x8 mm	10 m
FHN085	6x12 mm	10 m
FHN086	6x9 mm	10 m
FHN087	8x12 mm	10 m
FHN088	8x13 mm	10 m
FHN089	10x14 mm	10 m
FHN090	12x17 mm	10 m

K120 tube for vacuum

Kartell

1| Fabric impression surface, suitable for air, water, medium concentration acid and alkaline solutions, abrasive products, oxygenated solvents.
2| Temperature: -40 °C+70 °C.

Code	Dimensions (Øint. x Øext.)	Roll
FHN091	5x15 mm	6 m
FHN092	6x18 mm	6 m
FHN093	8x16 mm	6 m
FHN094	12x21 mm	6 m

Latex tubing

Kartell

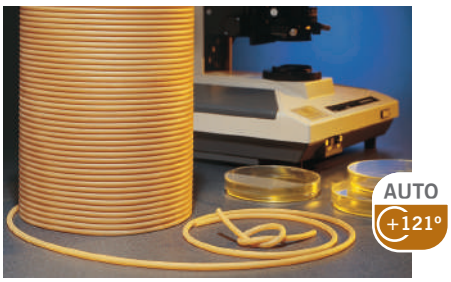
1| Made of transparente latex, Smooth surface. Density 0,92. Autoclavable.

Code	Dimensions (Øint. x Øext.)	Roll
FHN135	4x7 mm	10 m
FHN136	6x9 mm	10 m
FHN137	8x12 mm	10 m
FHN138	12x17 mm	10 m

FHN - Tubing for laboratory

Latex tube

SAINT-GOBAIN



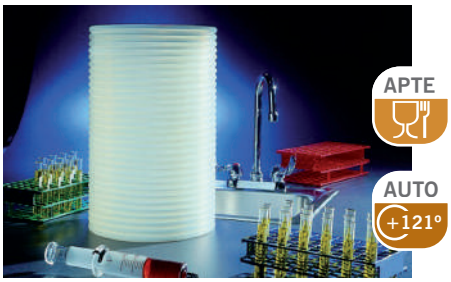
1| It can be sterilized with moist heat. Density= 0,98 -Shore hardness A= 40±5.
2| Temperature from -35 °C to +70 °C (+ 120 °C humid heat). Elasticity over 500%.

Code	Ø int.	Ø ext.	Thickness	Min. order quantity	Roll
FHN115	2.0 mm	4.0 mm	1,0 mm	2500 m	50 m
FHN116	3.0 mm	5.0 mm	1,0 mm	50 m	50 m
FHN117	4.0 mm	6.0 mm	1,0 mm	-	50 m
FHN118	4.0 mm	7.0 mm	1,5 mm	50 m	50 m
FHN120	5.0 mm	8.0 mm	1,5 mm	-	50 m
FHN121	5.0 mm	10.0 mm	2,5 mm	1000 m	50 m
FHN122	6.0 mm	9.0 mm	1,5 mm	-	50 m
FHN123	6.0 mm	10.0 mm	2,0 mm	50 m	50 m
FHN124	7.0 mm	10.0 mm	1,5 mm	-	25 m
FHN125	7.0 mm	11.0 mm	2,0 mm	25 m	25 m
FHN126	7.0 mm	13.0 mm	3,0 mm	600 m	25 m
FHN127	8.0 mm	12.0 mm	2,0 mm	-	25 m
FHN128	8.0 mm	16.0 mm	4,0 mm	25 m	25 m
FHN129	10.0 mm	14.0 mm	2,0 mm	-	25 m
FHN130	10.0 mm	15.0 mm,	2,5 mm	-	25 m
FHN131	12.0 mm	17.0 mm	2,5 mm	25 m	25 m
FHN132	15.0 mm	21.0 mm	3,0 mm	25 m	25 m
FHN133	18.0 mm	24.0 mm	3,0 mm	25 m	25 m
FHN134	20.0 mm	27.0 mm	3,5 mm	25 m	25 m

** Other dimensions available CONSULT*

Versilic® tube

SAINT-GOBAIN



1| High purity translucent silicone. Biologically neutral (USP XXIII class VI). Manufactured according to GMP.
2| According to European Pharmacopoeia tests (2nd edition).
3| Density: 1,2 - Shore hardness : A=60±5. Temperature - 60 °C to +200 °C. Conforms to FDA criteria.

Code	Ø int.	Ø ext.	Thickness	Min. order quantity	Roll
FHN163	4.0 mm	7.0 mm	1.5 mm	-	25 m
FHN165	4.0 mm	10.0 mm	3.0 mm	25 m	25 m
FHN169	5.0 mm	10.0 mm	2.5 mm	-	25 m
FHN170	6.0 mm	8.0 mm	1.0 mm	1300 m	25 m
FHN174	7.0 mm	10.0 mm	1.5 mm	-	25 m
FHN178	8.0 mm	11.0 mm	1.5 mm	-	25 m
FHN179	8.0 mm	12.0 mm	2.0 mm	-	25 m
FHN191	15.0 mm	21.0 mm	3.0 mm	25 m	25 m
FHN192	0.5 mm	2.5 mm	1.0 mm	1000 m	50 m
FHN193	1.0 mm	3.0 mm	1.0 mm	-	50 m
FHN194	1.5 mm	3.0 mm	0.75 mm	-	50 m
FHN195	2.0 mm	4.0 mm	1.0 mm	-	50 m
FHN198	3.0 mm	5.0 mm	1.0 mm	-	50 m
FHN199	3.0 mm	5.5 mm	1.25 mm	50 m	50 m
FHN202	4.0 mm	6.0 mm	1.0 mm	-	50 m

** Other dimensions available CONSULT*

FHN - Tubing for laboratory

Versitec® tube

SAINT-GOBAIN

1| Translucent, hydrophobic, minimal stretching, very good surface.
2| FDA and BgVV food grade.Density= 1,19 - Shore hardness A=60±5 (standard). Temperature from -50°C to +200°C (steam sterilisable).

Code	Ø int.	Ø ext.	Thickness	Min. order quantity	Roll
FHN235	6.0 mm	8.0 mm	1.0 mm	1000 m	25 m
FHN237	6.0 mm	10.0 mm	2.0 mm	25 m	25 m
FHN244	8.0 mm	12.0 mm	2.0 mm	-	25 m
FHN245	8.0 mm	14.0 mm	3.0 mm	25 m	25 m
FHN249	10.0 mm	16.0 mm	3.0 mm	25 m	25 m

** Other dimensions available, PLEASE INQUIRE*

Versinic ISO tube

SAINT-GOBAIN

1| 100% fluoroelastomer. Excellent chemical resistance to strong acids, oxidants, chlorinated solvents, aromatic carbides.
2| Good flame resistance. Black colour.
3| Density= 1.9 - Shore hardness A=60±5 up to Ø 4x6 mm and A=70±5 from Ø 4x8 mm. Temperature -20 °C to +200 °C (peaks up to 300 °C).

Code	Ø int.	Ø ext.	Thickness	Min. order quantity	Roll
FHN270	4.0 mm	6.0 mm	1.0 mm	-	5 m
FHN273	6.0 mm	9.0 mm	1.5 mm	-	5 m
FHN275	6.0 mm	12.0 mm	3.0 mm	-	5 m
FHN279	10.0 mm	14.0 mm	2.0 mm	200 m	5 m

** Other dimensions available, PLEASE INQUIRE*

PTFE tube

Kartell

Code	Dimensions (Øint. x Øext.)	Roll
FHN302	10x12 mm	5 m
FHN303	12x14 mm	5 m
FHN304	2x4 mm	5 m
FHN305	3x5 mm	5 m
FHN308	7x9 mm	5 m

** Other dimensions available, PLEASE INQUIRE*

FHN - Tubing for laboratory

Neoprene tubes

Kartell

1| For normal laboratory use, resistant to acids and solvents except benzole and related.
2| Temperature down to -35 °C / +85 °C.

Code	Dim. (Øint. x Øext.)	Roll
FHN326	4x6 mm	20 m
FHN327	6x9 mm	20 m
FHN328	8x12 mm	10 m
FHN329	10x14 mm	10 m

TYGON® S3 E-3603 tube

SAINT-GOBAIN

Tube

1| Performance tested on peristaltic pumps. Other FDA directives regarding bio-compatibility. According to USP ClassVI criteria.
4| Density=1,2 - Shore hardness=66. Temperature from -46°C to +74°C. Transparent.

Code	Ø int.	Ø ext.	Thickness	Min. order quantity	Roll
FHN340	1.6 mm	3.2 mm	0.8 mm	3000 m	15 m
FHN341	3.2 mm	6.4 mm	1.6 mm	-	15 m
FHN342	4.8 mm	8.0 mm	1.6 mm	-	15 m
FHN343	4.8 mm	9.5 mm	2.4 mm	-	15 m
FHN345	6.4 mm	11.2 mm	2.4 mm	15 m	15 m
FHN349	9.6 mm	15.9 mm	3.2 mm	15 m	15 m
FHN350	12.7 mm	19.1 mm	3.2 mm	15 m	15 m

** Other dimensions available, PLEASE INQUIRE*

TYGON® S3 E-3603 vacuum tube

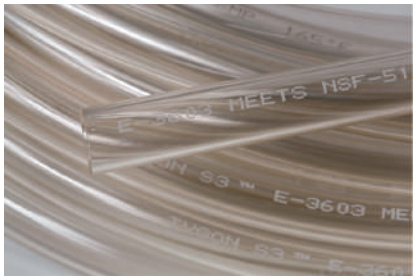
SAINT-GOBAIN

Code	Ø int.	Ø ext.	Thickness	Min. order quantity	Roll
FHN354	6.4 mm	16.0 mm	4.8 mm	15 m	15 m
FHN355	9.5 mm	22.3 mm	6.4 mm	-	15 m

**Other dimensions available, PLEASE INQUIRE*

FHN - Tubing for laboratory

Tygon S3 E-3603 tube



Code	Ø int.	Ø ext.	Thickness	Min. order quantity	Roll
FHN613	0.8 mm	2.4 mm	0.8 mm	-	15 m
FHN614	1.6 mm	4.8 mm	1.6 mm	-	15 m
FHN615	2.4 mm	4.0mm	0.8 mm	-	15 m
FHN616	2.4 mm	5.6 mm	1.6 mm	1500 m	15 m
FHN650	4.0 mm	6.0 mm	1.0 mm	15 m	15 m
FHN619	4.8 mm	6.4 mm	0.8 mm	15 m	15 m
FHN621	6.4 mm	8.0 mm	0.8 mm	-	15 m

** Other dimensions available, PLEASE INQUIRE*

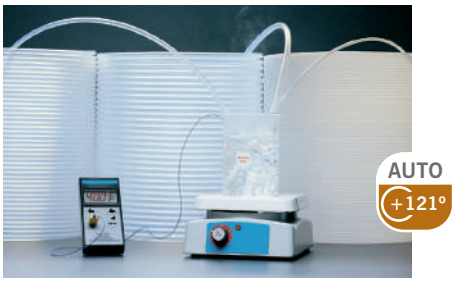
FHQ - Tubes for chemical process

Versilon SE-200 tubes

Code	Ø int.	Ø ext.	Thickness	Roll
FHQ015	3.2 mm	6.4 mm	1.6	15 m
FHQ016	4.8 mm	8.0 mm	1.6	15 m
FHQ017	9.6 mm	14.3 mm	2.4	15 m

FHV - Tubing for industrial use

Versilic® PTFE tubes



Code	Ø int.	Ø ext.	Roll	Min. order quantity
FHV001	2,0 mm	3,0 mm	100 m	700 m
FHV002	2,0 mm	4,0 mm	25 m	25 m
FHV008	4,0 mm	6,0 mm	25 m	400 m
FHV011	5,0 mm	6,0 mm	50 m	950 m
FHV014	6,0 mm	8,0 mm	25 m	300 m
FHV020	8,0 mm	10,0 mm	25 m	200 m
FHV017	10,0 mm	12,0 mm	25 m	200 m
FHV026	18,0 mm	20,0 mm	30 m	

** Other dimensions available, PLEASE INQUIRE*

FHX - Tubing for medical use

TYGON® ND-100-80 tube

1| Rigid, yet flexible to avoid perforation. Micro-diameter sizes correspond to needles 30 to 17. Ideal for precision injections and administrations. Transparent.
2| Complies with USP Class VI criteria. Density=1,24 - Shore hardness A=80. Temperature from -31°C to +85°C.

Code	Ø int.	Ø ext.	Thickness	Roll
FHX001	0.254 mm	0.762 mm	0.254 mm	150 m
FHX003	0.762 mm	2.286 mm	0.762 mm	150 m

** Other dimensions available, PLEASE INQUIRE*

Sylicon tubing k 70

1| Flexible and transparent.
2| Compliant with FDA 21 CFRS 177, 2600, PhEur 3.1.9. Temperature: -60 °C+200 °C.

Code	Dimensions (Øint. x Øext.)	Roll
FHX006	1x3 mm	10 m
FHX007	2x4 mm	10 m
FHX008	3x5 mm	10 m
FHX009	4x6 mm	10 m
FHX010	5x8 mm	10 m
FHX011	6x9 mm	10 m
FHX012	7x11 mm	10 m
FHX013	8x12 mm	10 m
FHX014	9x13 mm	10 m
FHX015	10x14 mm	10 m
FHX016	12x17 mm	10 m
FHX017	14x19 mm	10 m

K30, PVC tube

1| Does not contain DEHP. Temperature: -15 °C+60 °C. Compliant with PhEur 3.1.1.1 / USP XXXII 2009.

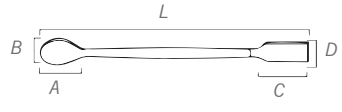
Code	Dimensions (Øint. x Øext.)	Roll
FHX018	3x5 mm	20 m
FHX022	8x12 mm	20 m
FHX023	10x14 mm	20 m

** Other dimensions available, PLEASE INQUIRE*

FKB - Spoon-spatula

Spatula spoon-flat

DIMENSIONS

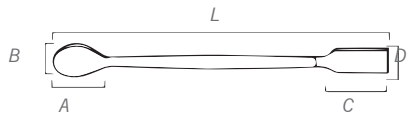


1 | Made of AISI304 stainless steel.

Code	L	AxB	CxD	Lot
FKB005	150 mm	15x20 mm	25x12 mm	**10**
FKB006	200 mm	30x20 mm	32x15 mm	**10**
FKB007	230 mm	30x20 mm	30x15 mm	**-**

Spatula spoon-flat reinforced

DIMENSIONS



1 | Made of AISI304 stainless steel.

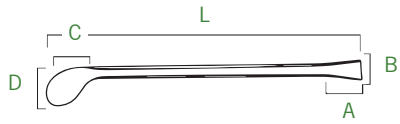
Code	Lenght	AxB	CxD	Lot
FKB008	100 mm	20x15 mm	22x13 mm	**10**
FKB009	125 mm	20x14 mm	18x14 mm	**10**
FKB010	150 mm	25x19 mm	30x19 mm	**10**
FKB011	200 mm	30x25 mm	30x25 mm	**10**
FKB012	250 mm	28x21 mm	35x20 mm	**10**

Code	Lenght
FKB515	120 mm
FKB516	150 mm
FKB517	180 mm
FKB518	210 mm
FKB519	250 mm
FKB520	300 mm

FKB - Spoon-spatula

Flat-curved spoon spatula

DIMENSIONS



1 | Made of stainless steel.

Code	Lenght	AxB	CxD
FKB020	195 mm	20x13 mm	30x20 mm

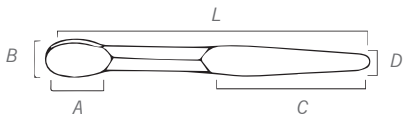
General purpose spoon+spatula

Code	Diameter	Spoon	Lenght
FKB528	5 mm	15x35 mm	150 mm
FKB529	5 mm	15x35 mm	180 mm
FKB531	5 mm	15x35 mm	210 mm
FKB549*	5 mm	15x35 mm	210 mm
FKB533	5 mm	15x35 mm	250 mm
FKB532	8 mm	28x65 mm	210 mm
FKB534	8 mm	28x65 mm	250 mm
FKB536	8 mm	28x65 mm	300 mm
FKB537	8 mm	28x65 mm	400 mm
FKB538	8 mm	28x65 mm	500 mm

** for left hand*

Trough spatula, groove-spoon

DIMENSIONS



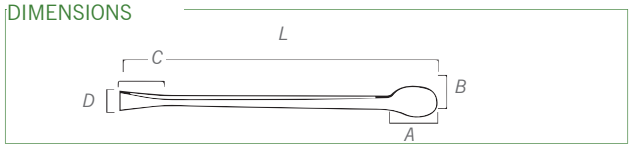
1 | Made of AISI304 stainless steel.

Code	Lenght	AxB	CxD	Lot
FKB022	200 mm	30x24 mm	90x17 mm	**10**

FKB - Spoon-spatula

Groove spoon spatula

DIMENSIONS



1| Made of AISI304 stainless steel.

Code	Lenght	AxB	CxD	Lot
FKB015	120 mm	15x13 mm	15x10 mm	**10**
FKB016	140 mm	20x15 mm	17x11 mm	**10**
FKB017	160 mm	25x18 mm	17x12 mm	**10**
FKB018	180 mm	30x20 mm	20x13 mm	**10**

Spatula spoon

1| Made of AISI304 stainless steel.

Code	Spoon width	Lenght
FKB042	7 mm	60 mm

Chemists spoon, standard

Code	Lenght
FKB527	150 mm

Open spoon, rod handle

Code	Lenght
FKB521	200 mm

Chemists spoon with wide end

Code	Lenght
FKB522	150 mm
FKB523	200 mm
FKB524	240 mm
FKB525	280 mm
FKB526	320 mm

FKB - Spoon-spatula

Spatula with spoon, for analysis

1| Made of AISI304 stainless steel.

Code	Lenght	AxB	CxD	Lot
FKB021	235 mm	40x19 mm	48x10 mm	**10**

Spoon and spatula

Code	Lenght
FKB547	120 mm
FKB545	150 mm
FKB546	180 mm
FKB544	210 mm
FKB539	230 mm

Spoon spatula with rod handle

Code	Lenght
FKB540	150 mm
FKB541	180 mm
FKB542	210 mm
FKB543	250 mm

Micro spoon spatula

Code	Wide	Lenght
FKD505	5 mm	100 mm
FKD513	5 mm	150 mm
FKD510	7 mm	150 mm
FKD506	5 mm	185 mm
FKD511	7 mm	185 mm
FKB507	5 mm	210 mm
FKB512	7 mm	210 mm
FKB508	5 mm	300 mm
FKB509	5 mm	400 mm

FKB - Spoon-spatula

Spatula spoon-flat

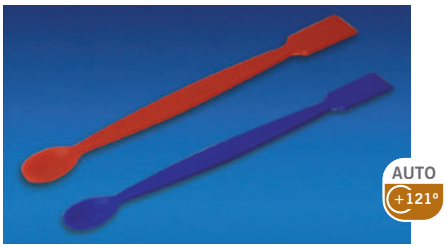
1| In glazed porcelain.

Code	Dimensions	Reels
FKB023	88 mm	13 mm

1| In glazed porcelain.

Code	Dimensions
FKB024	103 mm
FKB025	148 mm
FKB026	164 mm
FKB027	187 mm
FKB028	200 mm
FKB029	250 mm

Spatula spoon, PP



1| High resistance to chemicals and solvents. Can be autoclaved.

Code	Colour	Ø spatula	Ø spoon	Lenght	Lot
FKB030	Blue	16x35 mm	20x30 mm	16 cm	**10**
FKB033	Red	16x35 mm	20x30 mm	16 cm	**10**
FKB031	Blue	17x35 mm	20x35 mm	18 cm	**10**
FKB034	Red	17x35 mm	20x35 mm	18 cm	**10**
FKB032	Blue	19x35 mm	20x30 mm	20 cm	**10**
FKB035	Red	19x35 mm	20x30 mm	20 cm	**10**

1| Made of glass fibre filled nylon. Excellent chimical resistance.

Code	Lenght
FKB036	180 mm
FKB037	210 mm
FKB038	150 mm
FKB039	180 mm

FKG - Spatula

Micro spoon spatula

Code	Description	Wide	Lenght
FKG516	Stainless steel, flexible	18/22 mm	75 mm
FKG517	Stainless steel, flexible	18/22 mm	100 mm
FKG518	Stainless steel, flexible	18/22 mm	130 mm
FKG519	Stainless steel, flexible	18/22 mm	150 mm
FKG539	Chromed steel, tempered	18/22 mm	100 mm

Spatula with wooedn/plastic knob

Code	Description	Wide	Lenght
FKG553	With plastic handle	18 mm	75 mm
FKG554	With wooden handle	20 mm	100 mm
FKG555	With wooden handle	20 mm	130 mm
FKG568	With wooden handle	22 mm	150 mm
FKG550	With plastic handle	20 mm	100 mm
FKG552	With plastic handle	22 mm	150 mm

Spatula, wooden handle

1| Conical and flexible blade.

Code	Description	Wide	Lenght
FKG520	Stainless steel, flexible	18/22 mm	75 mm
FKG542	Chromed steel, tempered	18/22 mm	75 mm
FKG521	Stainless steel, flexible	18/22 mm	100 mm
FKG522	Stainless steel, flexible	18/22 mm	130 mm
FKG544	Chromed steel, tempered	18/22 mm	130 mm
FKG523	Stainless steel, flexible	18/22 mm	150 mm
FKG546	Chromed steel, tempered	18/22 mm	200 mm
FKG547	Chromed steel, tempered	18/22 mm	250 mm

Spatula extremly flexible blade

1| Flexible blade, stainless steel with wooden handle.

Code	Wide	Total lenght
FKG524	10 mm	150 mm
FKG526	20 mm	150 mm

FKG - Spatula

Spatula extremly flexible blade

Code	Description	Wide	Total lenght
FKJ501 *(1)*	Blade front rounded	3 mm	150 mm
FKJ502 *(1)*	Blade front rounded	5 mm	150 mm
FKG530 *(2)*	Powder spatula	3 mm	150 mm
FKG531 *(2)*	Powder spatula	4 mm	150 mm
FKJ532 *(2)*	Powder spatula	5 mm	150 mm
FKP516 *(3)*	Spoon shaped bent	5 mm	150 mm

Spatula with plastic knob

Code	Description	Lenght
FKG533	Narrow shaped	150 mm
FKG534	Narrow shaped	210 mm
FKG535	Narrow shaped	250 mm
FKG557	Wide shaped	200 mm
FKG559	Wide shaped	300 mm
FKG561	Wide shaped	500 mm

FKL - Double spatula

Powder spatula

Code	Wide	Lenght
FKL523	9 mm	130 mm
FKL524	9 mm	150 mm
FKL525	9 mm	185 mm
FKL526	9 mm	210 mm

Double spatula

Code	Description	Wide	Lenght
FKL516	Flexible	9 mm	130 mm
FKL539	Rigid	9 mm	130 mm
FKL517	Flexible	9 mm	150 mm
FKL540	Rigid	9 mm	150 mm
FKL518	Flexible	9 mm	185 mm
FKL541	Rigid	9 mm	185 mm
FKL519	Flexible	11 mm	210 mm
FKL542	Rigid	11 mm	210 mm
FKL520	Flexible	11 mm	250 mm
FKL543	Rigid	11 mm	250 mm
FKL544	Rigid	16 mm	300 mm
FKL545	Rigid	16 mm	350 mm
FKL546	Rigid	20 mm	400 mm
FKL547	Rigid	20 mm	500 mm

FKL - Double spatula

Double spatula with one curved end

Code	Wide	Lenght
FKL527	9 mm	150 mm
FKL529	9 mm	185 mm
FKL530	9 mm	210 mm
FKL532	9 mm	230 mm

Double spatula with one curved end

Code	Description	Wide	Lenght
FKL528	Double	10 mm	180 mm
FKP517	Single	10 mm	180 mm
FKL531	Double	10 mm	210 mm
FKP518	Single	10 mm	210 mm

Double spatula, wide version

Code	Description	Wide	Lenght
FKL533	Double	20 mm	150 mm
FKP534	Single	20 mm	200 mm
FKL536	Double	30 mm	300 mm
FKP537	Single	30 mm	400 mm
FKP538	Single	30 mm	500 mm

FKN - Double spatula, micro

Micro double spatula

Code	Wide	Lenght
FKN508	2 mm	100 mm
FKN509	2 mm	130 mm
FKN510	2 mm	150 mm
FKN511	3 mm	100 mm
FKN512	3 mm	130 mm
FKN513	3 mm	150 mm
FKN515	4 mm	100 mm
FKN516	4 mm	130 mm
FKN517	4 mm	150 mm
FKN519	4 mm	210 mm
FKN520	5 mm	100 mm
FKN521	5 mm	130 mm
FKN524	5 mm	210 mm
FKN526	6 mm	150 mm
FKN527	6 mm	185 mm
FKN528	6 mm	210 mm

FKN - Double spatula, micro

Micro double spatula

Code	Wide	Lenght
FKN555	7 mm	140 mm
FKN529	7 mm	160 mm
FKN530	7 mm	210 mm

Micro powder spatula

Code	Wide	Lenght
FKN531	3 mm	150 mm
FKN532	3 mm	210 mm
FKN533	4 mm	130 mm
FKN534	4 mm	150 mm
FKN535	4 mm	185 mm
FKN536	5 mm	150 mm
FKN537	6 mm	130 mm
FKN538	6 mm	150 mm
FKN539	6 mm	185 mm
FKN540	6 mm	210 mm
FKN541	7 mm	150 mm

Micro double spatula

Code	Wide	Lenght
FKN544	3 mm	150 mm
FKN545	3 mm	185 mm
FKN546	5 mm	100 mm
FKN547	5 mm	130 mm
FKN548	5 mm	150 mm
FKN549	5 mm	185 mm
FKN550	5 mm	210 mm
FKN552	6 mm	150 mm

FKP - Spoons

Micro double spatula

Code	Wide	Lenght
FKP514	9 mm	170 mm

FKR - Double spoons

Chemical spoon

Code	Lenght
FKR502	120 mm
FKR503	150 mm
FKR504	180 mm
FKR505	210 mm
FKR506	250 mm
FKR507	300 mm

Chemical spoon, open end

Code	Lenght
FKR508	150 mm
FKR509	180 mm

FKT - Double micro spoon spatula

Micro double spatula, both ends spoon shaped

Code	Wide	Lenght
FKT501	5 mm	130 mm
FKT502	5 mm	150 mm
FKT505	7 mm	150 mm
FKT503	5 mm	185 mm
FKT506	7 mm	185 mm
FKT504	5 mm	210 mm
FKT507	7 mm	250 mm

Micro double spatula, one end spoon shaped

Code	Wide	Lenght
FKT508	5 mm	150 mm
FKT509	5 mm	185 mm

FKW - Scoops

Industrial scoop, HDPE

1 | Neutral colour.

Code	Capacity	Total lenght	Usable lenght
FKW002	250 mL	24 cm	15,5 cm
FKW004	600 mL	30 cm	19,5 cm
FKW001	1100 mL	36 cm	24 cm
FKW003	2500 mL	40 cm	28,5 cm

1 | Neutral color.

Code	Capacity	Dimensions	Lot
FKW014	250 mL	25 cm	**25**
FKW015	500 mL	30 cm	**25**
FKW012	1000 mL	40 cm	**25**
FKW013	1500 mL	40 cm	**25**

Stainless steel shovel with handle

1 | Made of AISI 304 stainless steel and AISI 316 steel. They have a plain surface and are easy to clean. They are suitable for use in the pharmaceutical industry.

Code	Total lendth (mm)	Useful length (mm)	Width (mm)	Volume (mL)
FKW023	320	150	82	250
FKW024	360	200	102	500
FKW027*	320	150	50	120
FKW028*	250	145	75	450

**AISI 316*

FKW - Scoops

Measuring scoop, PP

1 | Neutral color.

Code	Capacity	Dimensions	Lot
FKW005	10 mL	32x103x16 mm	**12**
FKW008	25 mL	43,8x137x3x21 mm	**12**
FKW010	50 mL	55,4x163,7x26 mm	**12**
FKW006	100 mL	67,2x201,7x34 mm	**12**
FKW009	250 mL	94x261,5x43,7 mm	**6**
FKW011	500 mL	112x315x55 mm	**6**
FKW007	1000 mL	141x386,6x69,4 mm	**6**

1 | Neutral color.

Code	Capacity	Dimensions	Lot
FKW032	10 mL	76x35x15 mm	**6**
FKW033	25 mL	128x45x21 mm	**6**
FKW034	50 mL	162x52x27 mm	**6**
FKW035	100 mL	220x70x35 mm	**6**
FKW036	250 mL	264x90x42 mm	**6**
FKW037	500 mL	317x114x58 mm	**6**
FKW038	1000 mL	390x140x72 mm	**6**

1 | Precisely shaped filler edge and solid, comfortable handle. Clearly legible volume indication on the top of the handle.

Code	Volume	Lenght
FKW501	2 mL	60 mm
FKW502	5 mL	82 mm
FKW503	25 mL	135 mm
FKW504	50 mL	160 mm
FKW505	100 mL	200 mm
FKW506	250 mL	260 mm
FKW507	500 mL	315 mm
FKW508	1000 mL	385 mm

FKW - Scoops

Meassuring scoop PP

VITLAB

1| Precisely shaped filler edge and solid, comfortable handle. Volume reference clearly legible on the top of the handle

Code	Volume	Colour
FKW516	50 mL	Blue
FKW517	100 mL	Red
FKW518	100 mL	Yelow
FKW519	100 mL	Blue
FKW520	100 mL	Green
FKW521	100 mL	Blue vif
FKW522	100 mL	Set of 9 scoops PP colour
FKW546	250 mL	Blue
FKW547	250 mL	Red

Weighing funnel, glass

ENDO glassware

1| Funnel to weigh substances made of glass. Suitable for high precision weighing.

Code	Capacity	Lot
FKW039	3 mL	**10**
FKW040	6 mL	**10**
FKW041	10 mL	**10**

I he dissection articles are exclusively for didactic and veterinary use, not for medical use. Except those with CE marking.

Disinfect before use. Wash your hands with an antibacterial soap before use.
Under no circumstances should instruments with rust or corrosion be used.
Never leave a dirty instrument to dry. Moisten immediately.
They can be subjected to repeated ultrasonic cleaning.
The instruments can be sterilized by means of an autoclave:

1. Use distilled water
2. Remove the remains of blood tissue with a nylon brush.
3. Leave the instruments open during the autoclaving process.

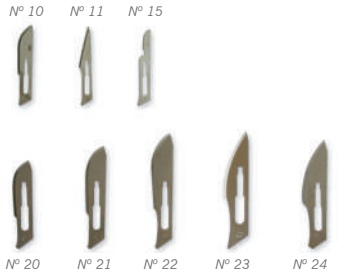
Place the fine parts and cutters in the upper part of the device.

4. Autoclave in 4/6 minutes at 132 ºC (270 ºF).
5. Dry for 4/5 minutes.
6. Do not leave the instruments in the autoclave.
7. After sterilization, leave a drop of silicone oil for proper functioning.

FMB - Scalpels - blades

Scalpel blades

Nahita



1| Made of carbon steel, individually packed. Sterile.
2| Each model is represented by a universal number that identifies both their size and shape.

Code	Number	For handles Nº	Packaging	Lot
FMB012	Nº 10	3	Pack of 100 units	**50**
FMB013	Nº 11	3	Pack of 100 units	**50**
FMB014	Nº 15	3	Pack of 100 units	**50**
FMB015	Nº 20	4	Pack of 100 units	**50**
FMB016	Nº 21	4	Pack of 100 units	**50**
FMB017	Nº 22	4	Pack of 100 units	**50**
FMB018	Nº 23	4	Pack of 100 units	**50**
FMB019	Nº 24	4	Pack of 100 units	**50**

Scalpel handle

Nahita

1| Made of stainless steel.

Code	Number	Total lenght	Lot
FMB020	nº 3 long	200 mm	**10**
FMB021	nº 3	125 mm	**10**
FMB022	nº 4 long	220 mm	**10**
FMB023	nº 4	140 mm	**10**

FMB - Scalpels - blades

Disposable scalpels

CE 0434

1| Blade made of carbon steel, handle made of plastic. Individually packed, sterile.

Code	Number	Lenght	Packaging	Lot
FMB004	10	135 mm	Pack of 10 units.	**50**
FMB005	11	135 mm	Pack of 10 units	**50**
FMB006	15	135 mm	Pack of 10 units	**50**
FMB007	20	160 mm	Pack of 10 units	**50**
FMB008	21	160 mm	Pack of 10 units	**50**
FMB009	22	160 mm	Pack of 10 units	**50**
FMB010	23	160 mm	Pack of 10 units	**50**
FMB011	24	160 mm	Pack of 10 units	**50**

Histologic folding knife

1| Stainless steel handle and blade.

Code	Lenght	Handle	Lot
FMB001	110 mm	Metal	**10**
FMB002	110 mm	Plastic	**10**

Scalpel, fixed blade

AUTO +121°

Code FMB003

Code FMB025

1| Non sterile.

Code	Total lenght	Blade lenght	Lot
FMB003	150 mm	40 mm	**10**
FMB025	170 mm	50 mm	-

FMB - Scalpels - blades

Sterile blood lancets

1| Made of stainless steel.
2| Single-use for capillary blood taking. Sterile

Code	Packaging	Lot
FMB024	Pack of 200 uds	**100**

FMD - Dissecting needles

Dissecting pin

AUTO +121°

1| Stainless steel needle.

Code	Total lenght	Handle	Lot
FMD001	145 mm	Inoxidable	**10**
FMD002	145 mm	Plastic	**12**
FMD009	140 mm	Plastic	**10**

Punta fina, forma lanceta

AUTO +121°

1| Stainless steel needle.

Code	Total length	Handle	Lot
FMD003	130 mm	Inox.	**10**
FMD004	135 mm	Plastic	**10**

Grooved probe

AUTO +121°

1| Made of stainless steel.

Code	Total length	Lot
FMD008	140 mm	**10**

FMD - Dissecting needles

Histologic needle, curved tip

1| Stainless steel needle.

Code	Total lenght
FMD005	130 mm

Catheter

1| In stainless steel.

Code	Total lenght
FMD006	140 mm
FMD007	200 mm

FMG - Forceps, curved

London - College

1| Curved tip, in stainlss steel.

Code	Total length	Lot
FMG001	115 mm	**10**
FMG002	150 mm	**10**

Laboratory forceps

1| Curved tip, in stainless steel.

Code	Total length	Lot
FMG003	110 mm	**10**

FMG - Forceps, curved

Laboratory forceps

1| 1.4301 stainless steel

Code	Total lengh
MG503	105 mm
FMG504	115 mm
FMG505	130 mm
FMG506	145 mm
FMG507	160 mm
FMG508	200 mm

FMJ - Forceps, straight

Dissection, without teeth

1| Made of stainless steel. Straight and striated tip.

Code	Total length	Lot
FMJ001	125 mm	**10**
FMJ002	140 mm	**10**
FMJ003	160 mm	**10**
FMJ004	200 mm	**10**
FMJ005	250 mm	**10**

With teeth

1| Instead of striation on the tip they have teeth that fit into the teeth on the opposite side.
2| Used to grasp gauze, they also provide a firm hold on the skin and hard tissues. In stainless steel.

Code	Teeth	Total length	Lot
FMJ008	1:2 teeth	125 mm	**10**
FMJ009	1:2 teeth	140 mm	**10**
FMJ010	1:2 teeth	160 mm	**10**
FMJ011	1:2 teeth	200 mm	**10**
FMJ012	2:3 teeth	130 mm	**10**
FMJ013	2:3 teeth	145 mm	**10**
FMJ014*	1:2 teeth	140 mm	**10**

** fine tip*

FMJ - Forceps, straight

Dissecting forceps

AUTO +121°

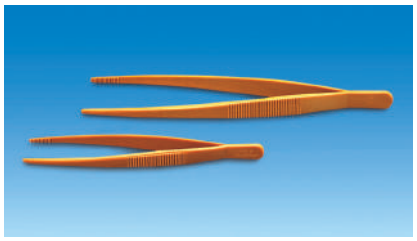
1| Sharp stainless steel tip.

Code	Total length	Lot
FMJ006	115 mm	**10**
FMJ007	140 mm	**10**

Forceps POM

AUTO +121°

Code	Number
FMJ015	115 mm
FMJ016	145 mm
FMJ017	250 mm



1| Yellow, blunt, elastic, very good resilience. With grooves on the outside for optimum handling and grip.

Code	Number
FMJ501	115 mm
FMJ502	145 mm
FMJ503	180 mm
FMJ504	250 mm

Forceps POM

AUTO +121°

Code	Type	Length
FMJ509	Premium quality	115 mm
FMJ510	Premium quality	130 mm
FMJ511	Premium quality	145 mm
FMJ531	Premium quality	200 mm
FMJ512	Premium quality	300 mm
FMJ519	Standard quality	105 mm
FMJ532	Standard quality	115 mm
FMJ520	Standard quality	130 mm
FMJ521	Standard quality	200 mm
FMJ522	Standard quality	250 mm
FMJ523	Standard quality	300 mm
FMJ518	PTFE coated	115 mm

FML - Forceps, special

Adson Forceps

1| In stainless steel.

Code	Total lenght
FML001	120 mm

Feilchenfeld forceps

1| In stainless steel.

Code	Total length	Lot
FML002	110 mm	**10**
FML003	90 mm	**10**

Forceps 'Kocher'

1| With teeth, stainless steel.

Code	Total length	Lot
FML004	140 mm	**10**

Haemostatic forceps

AUTO +121°

1| They have a mechanism through which, once closed, the clamp remains fixed without needing to be tightened. They are easily released.
2| In stainless steel.

Code	Model	Total lenght
FML005	Mosquito straight	130 mm
FML015	Curved	140 mm
FML017	Straight	140 mm

FML - Forceps, special

Forceps for insect

1| Stainless steel.

Code	Total length	Lot
FML006	100 mm	10

Forceps, spring effect

1| Stainless steel.

Code	Model	Lot
FML007	Forceps, spring effect	10
FML010	Forceps for slides, flat tips	10

Forceps "Rochester-Pean"

1| Stainless steel.

Code	Total length	Lot
FML008	160 mm	10
FML020	140 mm	10

Forceps very thin tip

1| Fine tips, in stainless steel..

Code	Total length	Lot
FML009	110 mm	10

FML - Forceps, special

Needle holder

1| For grasping and holding surgical needles, they have short, firm branches. The size of the needle holder should be in accordance with the size of the needle.
- Baumgartner for fine needles.
- Mayo-Hegar for coarse needles.

2| In stainless steel.

Code	Model	Total length	Lot
FML011	Baumgartner	140 mm	10
FML012	Baumgartner	180 mm	10
FML013	Mayo-Hegar	160 mm	10
FML014	Mayo-Hegar	180 mm	10
FML019	Mayo-Hegar	145 mm	10

FMN - Scissors

Surgical scissors, curved

1| Made of stainless steel.

Code	Model	Total length	Lot
FMN001	Sharp-sharp	140 mm	10
FMN004	Sharp-blunt	130 mm	10
FMN006	Blunt-blunt	125 mm	10
FMN007	Blunt-blunt	140 mm	10

Surgical scissors, straight

Code	Model	Total length	Lot
FMN009	Sharp-sharp	115 mm	10
FMN010	Sharp-sharp	140 mm	10
FMN011	Sharp-sharp	160 mm	10
FMN012	Sharp-blunt	125 mm	10
FMN013	Sharp-blunt	140 mm	10
FMN014	Sharp-blunt	160 mm	10
FMN015	Blunt-blunt	140 mm	10
FMN016	Blunt-blunt	160 mm	10

FMN - Scissors

Tungsten scissors

Code	Model	Total length	Lot
FMN021	Sharp-sharp	130 mm	-
FMN022	Sharp-blunt	130 mm	**10**
FMN023	Iris	110 mm	**10**
FMN024	Metzenbaum	140 mm	-

Micro scissors Noye

1| In stainless steel.

Code	Total lenght
FMN025	115 mm

Scissors Iris

1| In stainless steel.

Code	Total lenght
FMN026	110 mm

Littauer scissors

1| In stainless steel.
2| Hook-shaped blade to easily slide under the suture and prevent it from slipping.

Code	Total lenght	Blade lenght
FMN027	140 mm	40 mm

FMN - Scissors

Scissors Metzenbaum

1| In stainless steel.

Code	Total lenght
FMN028	140 mm

Scissors for bandage Lister

1| In stainless steel.

Code	Total lenght
FMN029	140 mm

Scissors Spencer

1| Fine tips, in stainless steel.

Code	Number
FMN030	130 mm

FMQ - Dissecting kits

Empty case

1| Push button closure. Supplied without instruments.

Code	Description	Dimensions (LxA)
FMQ004	3 pieces	160x90 mm
FMQ005	6 pieces	180x100 mm
FMQ003	12 pieces	168x105 mm

FMQ - Dissecting kits

Empty case

1| External colour brown, interior red. Zippered closure. Supplied without instruments.

Code	Description
FMQ006	9 pieces
FMQ007	15 pieces

15 and 9 pieces

Code	FMQ001

Composed of:

Code	Description
FMD006	1 catheter, 140 mm
FMD007	1 catheter, 200 mm
FML011	1 Baumgartner needle holder, 140 mm.
FMB021	1 scalpel handle, nº 3.
FMB023	1 scalpel handle, nº 4.
FMN013	1 straight scissors sharp-blunt
FMN004	1 curved scissors sharp-blunt
FMN019	1 straight Mayo scissors, 140 mm.
FMN018	1 curved Mayo scissors, 140 mm.
FMJ009	1 dissecting forceps 1:2 teeth, 140 mm.
FMJ002	1 dissecting forceps without teeth, 140 mm.
FML015	1 haemostatic forceps, curved, 140 mm.
FML017	1 haemostatic forceps, straight, 140 mm.
FML005	1 haemostatic forceps Mosquito, straight, 130 mm.
FMD002	1 sharp dissecting Pins, 145 mm.

Code	FMQ002

Composed of:

Code	Description
FMD006	1 catheter, 140 mm.
FMD008	1 grooved probe, 140 mm.
FML011	1 Baumgartner needle holder, 140 mm.
FMB021	1 scalpel handle nº 3., 125 mm
FMB023	1 scalpel handle, nº 4., 140 mm
FMN013	1 straight scissors sharp-blunt
FMN004	1 curved scissors sharp-blunt
FMJ009	1 dissecting forceps 1:2 teeth, 140 mm.
FMJ002	1 dissecting forceps without teeth, 130 mm.
FMQ006	1 empty dissection case, 9 pieces

FZB - Stabilizing rings

1| To stabilize bottles, flasks, etc., preventing them from floating when submerged. Made of steel covered with PVC.

Code	Total length	Weight (approx.)
FZB001	48 mm	270 g
FZB002	56 mm	520 g
FZB003	61 mm	780 g
FZB004	74 mm	960 g

FZD - Glass markers

Pen for glass

Code. FZD02

Code	Model
FZD003	Glass marking pencil
FZD002	Glass marking pencil, Chinagraph

FZG - Compass

Code	Model	Diameter	Lot
FZG001	Aluminium	40 mm	-
FZG002	Initiation, with ring	44 mm	-
FZG003	Directional	53 mm	-
FZG004	Plastic	55 mm	**20**

G | CENTRIFUGES

GB - Single-rotor 152
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GDC - Mini-centrifuges 154

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GN - High capacity 169
GNC - Bench top 169
GNF - Bench top, refrigerated 170

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	CODE	MAX. CAPACITY	COOLING	SPEED (rpm)
SINGLE-ROTOR	GBF001	90 mL (6×15 mL)	-	1.000-4.000
	GBF011	180 mL (12×15 mL)	-	500-4.000
	GBF012	180 mL (12×15 mL)	-	500-4.000
MINI-CENTRIFUGES	GDC008	16 mL (8×2 mL)	-	4.000
	GDC001	16 mL (8×2 mL)	-	7.000
	GDC002	16 mL (8×2 mL)	-	10.000
	GDC009	16 mL (8×2 mL)	-	12.000
	GDC003	16 mL (8×2 mL)	-	4.000 / 7.000 / 10.000
	GDC004	16 mL (8×2 mL)	-	4.000 / 7.000 / 10.000
	GDC005	20 mL (4×5 mL)	-	4.000 / 7.000 / 10.000
	GDC006	30,4 mL (32×0,2 mL + 12×2 mL)	-	500-1.200
	GDC011	2× 96-well microplate	-	300-3.000
UNIVERSAL	GLC001	400 mL (4×100 mL / 8×50 mL)	Ventilation	100-6.000
	GLC003	400 mL (4×100 mL)	Ventilation	200-1.8000
	GLC004	240 mL (24×10 mL)	-	100-4.000
	GLC005	50 mL (10×5 mL)	Ventilation	100-1.5000
	GLC006	450 mL (15mLX30)	Ventilation	100-6.000
	GLF002	50 mL (10×5 mL)	Refrigerated	100-16.000
	GLF003	400 mL (4×100 mL)	Refrigerated	100-16.000
HIGH CAPACITY	GNC001	480 mL (32×15 mL)	Ventilation	100-6.000
	GNC002	2.000 mL (4×500 mL)	Ventilation	200-6.000
	GNC003	2.000 mL (4×500 mL)	Ventilation	200-6.000
	GNF001	400 mL (4×100 mL / 8×50 mL)	Refrigerated	100-6.000
	GNF002	480 mL (32×15 mL)	Refrigerated	200-6.000
	GNF003	2.000 mL (4×500 mL)	Refrigerated	200-6.000
	GNF005	2.000 mL (4×500 mL)	Refrigerated	200-6.000
	GNF004	1.000 mL (4×250 mL)	Refrigerated	200-18.000

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Nahita Blue centrifuges catalogue

RCF (×g)	SCREEN TYPE	FEEDING CONSUMPTION	DETECTION AUTOMATIC ROTOR
1.790	✓ (LED)	220V / 50Hz | 90W	-
2.300	✓ (LCD)	220V / 50Hz | 120W	-
2.300	✓ (LCD)	220V / 50Hz | 80W	-
990	-	100-250V / 50-60Hz | 12W	-
2.910	-	100-250V / 50-60Hz | 18W	-
5.610	-	100-250V / 50-60Hz | 25W	-
8.550	-	100-250V / 50-60Hz | 30W	-
990 / 2.910 / 5.610	-	100-250V / 50-60Hz | 25W	-
990 / 2.910 / 5.610	-	12V | 25W	-
990 / 2.910 / 5.610	-	100-250V / 50-60Hz | 25W	-
9.660	✓ (LCD)	100-250V / 50-60Hz | 45W	-
608	✓ (LCD)	DC24V / 2.75A | 55W	-
5.150	✓ (LCD)	220V / 50-60Hz | 350W	-
23.470	✓ (LCD)	AC220V / 50-60Hz | 500W	✓
2.250	✓ (LED)	AC220V / 50-60Hz | 110W	-
20.375	✓ (LED)	AC220V / 50Hz | 450W	✓
5.350	✓ (LCD)	AC220V / 50Hz | 350W	✓
23.470	✓ (LCD)	AC220V / 50-60Hz | 650W	✓
23.470	✓ (LCD) touch screen	AC220V / 50-60Hz | 750W	✓
5.150	✓ (LCD)	AC220V / 50-60Hz | 450W	✓
5.150	✓ (LCD)	AC220V / 50-60Hz | 650W	✓
5.150	✓ (LCD)	AC220V / 50-60Hz | 650W	✓
5.150	✓ (LCD)	AC220V / 50-60Hz | 550W	✓
5.150	✓ (LCD) touch screen	AC220V / 50-60Hz | 650W	✓
5.150	✓ (LCD) touch screen	AC220V / 50-60Hz | 850W	✓
5.150	✓ (LCD) touch screen	AC220V / 50-60Hz | 850W	✓
23.470	✓ (LCD) touch screen	AC220V/50-60Hz | 850W	✓

GBF - Digital desktop

Digital Angular Series 2615/1

nahita blue

1| Casing in plastic. Angular rotor. Brush motor. Safety device on the lid. Plastic casing.

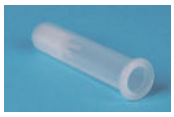
Code	GBF001
Capacity (mL)	6x15 (17x120 mm)
Timer (min)	1-60
Speed (rpm)	1000-4000 (500 rpm increment)
Maximum RCF (xg)	1790
Dimensions aprox. (mm)	280x280x250
Power (W)	90
Power supply	220 V AC / 50 Hz
Weight aprox. (Kg)	5

YouTube

Compatible accessories, not included

Accessory kit
Code GBK001

Tube adapter
Code GBK002



Tube adapter
Code GBK003

Recommended tubes

15 mL Falcon tubes, PP

BGD010, BGD082, BGD083, BGD084, BGD024, BGD025
BGD039, BGD029, BGD030, BGD031, BGD032, BGD033

Digital Angular 2650

nahita blue

1| Angular rotor in painted aluminium. Digital Pourmeter adjustment. Suction cup feet.
2| Oven-painted steel casing. Hinged methacrylate cover with locking anchor. Lid contact switch and electromagnetic lock.

Code	GBF011	GBF012
Model	2650-D	2650-D+
Motor	With brushes	Induction (brushless)
Capacity (mL)	12 tubes of 15 (17x120 mm)	
Speed (rpm)	500-4000 (Increment of 50 rpm)	
Maximum RCF (xg)	2300 (Increment of 10xg)	
Dimensions (mm)	330x285x270	
Power supply	220 V / 50 Hz	
Power (W)	120	80
Weight (kg)	9,75	

YouTube

Compatible accessories, not included

Tube adapter*

Code	*GBK003*
Dimensions	*13x75 mm*

Tube holder
*Code GBK015***

*For tubes of 13x75 mm with the option of removing the end cap when using tubes of 13x100 mm.
** included with rotor

Recommended tubes

15 mL Falcon tubes, PP

BGD010, BGD082, BGD083, BGD084, BGD024, BGD025
BGD039, BGD029, BGD030, BGD031, BGD032, BGD033

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GBF - Digital desktop

Digital Angular RS-0412

1| Audible alarm function. It also features lid locking, detection for overspeed, detection for overheating, and automatic internal diagnostics.
2| It has rapid acceleration and braking, estimated at 20 seconds.
3| Brushless, maintenance-free engine.

Code	GBF013
Capacity	8 tubes of 15 mL (17x120 mm) 12 tubes of 10 mL (16x107 mm)
Speed (rpm)	300-4500 (100 rpm increment)
Maximum RCF (xg)	2490
Dimensions (mm)	354×304×215
Power supply	220 V / 50 Hz
Power (W)	120
Weight (kg)	6

Digital Angular RS-0408

1| Low-speed centrifuge, highly versatile, suitable for various clinical and biochemical applications for analyzing serum, plasma, blood, and urine quality. It comes with three preset programs (blood, urine, and feces).
2| Compact, quiet device equipped with an LED screen.
3| Brushless induction motor, maintenance-free. Automatic diagnosis and self-detection.
4| Acceleration ramps (25 s) and deceleration ramps (35 s).

Code	GBF014
Capacity	8 tubes of 15 mL (17x120 mm) 12 tubes of 10 mL (16x107 mm)
Timer (min)	1-99 / HOLD (continuous work)
Speed (rpm)	300-4000 (stages of 100)
Maximum RCF (xg)	1900
Power supply	AC 100-240 V / 50 HZ - 60 HZ
Dimensions aprox. (mm)	367 x 286 x 227
Weight aprox. (Kg)	9,2

Digital Angular RS-0506

1| Widely used in the medical industry. Ideal for the separation of serum, plasma, urine, and fecal samples.
2| Automatic lid unlocking after use. Equipped with a maintenance-free brushless DC motor.
3| Two programs P1/P2, easy startup of the process with one touch.
4| Two deceleration speeds to meet different needs.
5| Easy-to-read LCD screen and audible alarm.

Code	GBF015
Capacity	
	6 Falcon tubes 15 mL *(without adapter)* 6 Vacutainer tubes 16x107 mm *(without adapter)* 6 Vacutainer tubes 13x75 mm *(with orange adapter)* 6 Vacutainer tubes 13x100 mm *(with orange adapter)* 6 microtubes 1,5 mL/2 mL *(with white adapter)*
Timer (min)	30 s – 99 minutes / continuous
Speed (rpm)	300 – 5000 (stages of 100)
Maximum RCF (xg)	2350 (stages of 10 g)
Power	70 W
Power supply	110 V-240 V, 50/60 Hz
Dimensions aprox. (mm)	300x240x180
Weight aprox. (Kg)	5,2 kg

GDC - Mini-centrifuges

Digital Angular Series 2507

1| Transparent visible top cover.
2| Silicone rubber damping pad.
3| Ergonomically designed and easily accessible swivel latch.
4| Compact size. The lid design allows for easy opening by pressing the release button without compromising safety: the rotor will stop automatically when the lid is opened.

Code	GDC008	GDC001	GDC002	GDC009
Model	2507/4	2507/7	2507/11	2507/30
Speed	4000rpm ±3%	7000rpm ±3%	10000rpm ±3%	12000rpm ±5%
RCF	990 ×g	2910 ×g	5610 ×g	8550 ×g
Capacity	See available rotors			
Weight	1.1Kg			
Dimensions	155×168×118 mm			
Power supply	100-250V/50-60 Hz			
Power	12 W	18 W	25 W	30 W

THREE SPEEDS

Code	GDC003	GDC004*
Model	2507/15	2507/25
Speed	4000/7000/10000rpm ±3%	
RCF	990/2910/5610 ×g	
Capacity	See available rotors	
Weight	1.1 Kg	
Dimensions	155×168×118 mm	
Power supply	100-250V/50-60 Hz	
Power	25 W	25 W

** car model*

Rotors included

Angular rotor | GDF007
1.5/2 mL×8
4000 rpm/990 ×g
7000 rpm/2910 ×g
10000 rpm/5610 ×g

Angular rotor | GDF010
0.2 mL×8×4
4000 rpm/536 ×g
7000 rpm/1643 ×g
10000 rpm/3354 ×g

Angular rotor | GDF013
1.5 mL×6+0.5 mL×6+0.2 mL×8×2
4000 rpm/912 ×g
7000 rpm/2793 ×g
10000/5701 ×g

Microhaematocrit rotor | GDF005*
20 ul×12
12000 rpm y 8371 ×g
Capillary length 40 mm
** For use with reference GDC009 only.*

ADAPTERS INCLUDED

Adapter | GDF001
0,2 mL tubes

Adapter | GDF002
0,5 mL tubes

Capillary reading card | GDF018*
only for fixed speed models
** not valid for 3-speed models*
Included in GDC009

RECOMMENDED TUBES

0,2 mL microtubes	BGN003, BGN026
0,5 mL microtubes	BGN004
2 mL microtubes	BGN025
1,5 mL microtubes	BGN005, BGN011, BGN012, BGN013, BGN014, BGN015, BGN027
Microtube strip of 8×0,2 mL	BGN006

GDC - Mini-centrifuges

Model Fugevet +

1| Versatile, with three speeds in one, 4-7-10,000 rpm, and various interchangeable rotors for 1.5/2 mL microtubes, 0.5 mL tubes, 8-tube PCR strips of 0.2 mL, as well as hematocrits.
2| Easy to use with "soft start" and "soft stop" functions. Design prevents droplets from sticking to the tube walls.
3| Suitable for use with microfiltration tubes, rapid centrifugation, microscale blood cell separation, bacterial pellet processing, and partition centrifugation in PCR techniques.
4| It's the ideal centrifuge for personal use, always ready to centrifuge small samples when needed.

Code	GDC005
Capacity	Rotor for 12 microhematocrit tubes Rotor for 8 microtubes: 8x1.5/2 mL, 8x0.5 mL*, 8x0.2 mL* Angular rotor 6x1,5/2 mL + 6x0,5 mL + 2 strips PCR 8x0,2 mL Rotor for 4 cryotubes: 4x5 mL, 4x1.8 mL* Strip rotor (4 strips of 8x0.2 mL)
Speed (rpm)	4000/7000/12000
RCF (xg)	990/ 2910/ 5610
Dim. aprox. (mm)	155 x 175 x 125
Power supply	AC 85-240 V, 50/60 Hz
Power (W)	66
Weight (kg)	0,8

** using the included adaptors*

ROTORS INCLUDED IN THE EQUIPMENT

Angular rotor | GDF007
1.5/2mL×8
4000rpm/990×g
7000rpm/2910×g
12000rpm/5610×g

Angular rotor | GDF010
0.2mL×8×4
4000rpm/536 ×g
7000rpm/1643 ×g
12000rpm/3354 ×g

Angular rotor | GDF013
1.5mL×6+0.5mL×6+0.2mL×8×2
4000rpm/912 ×g
7000rpm/2793 ×g
12000/5701 ×g

Microhaematocrit rotor | GDF005
20ul×12
12000rpm y 8371 ×g
Capillary length 40 mm

Angular rotor | GDF006
4 cryotubes x 5mL
7000rpm / 3180×g

ADAPTERS AND ACCESSORIES INCLUDED

Adapter | GDF001
0,2 mL tubes

Adapter | GDF002
0,5 mL tubes

Capillary reading card | GDF018
fixed speed models

RECOMMENDED TUBES

0,2 mL microtubes	BGN003, BGN026
0,5 mL microtubes	BGN004
2 mL microtubes	BGN025
1,5 mL microtubes	BGN005, BGN011, BGN012, BGN013, BGN014, BGN015, BGN027
Microtube strip 8 x 0,2 mL	BGN006
Capillary microhaematocrit	ZMB048

GDC - Mini-centrifuges

MiniFuge-GD06

1| Compact and stable structure, great versatility, and easy access, as well as smooth start and gradual braking. LCD screen.
2| Faster acceleration/deceleration speed allows for finishing the experiment in less time. “Click” type rotor exchange system.
3| With the safety system on the lid, as well as the detection system for excessive speed and imbalance, safe operation of the equipment is guaranteed.

Code	GDC006
Speed (RPM)	500-12.000
RCF max. (xg)	9660
Speed (rpm)	12.000
Timer	1-8 min. / 1-59 sec.
Dimensions (LxAxH) (mm)	194×229×120
Power (W)	66
Power supply	AC 100 - 250 V / 50/60 Hz
Weight (kg)	2

ROTORS INCLUDED IN THE EQUIPMENT

PCR rotor | GDF008
1.5/2mL×12+0.2mL×8×4
12000rpm/9500×g

PCR rotor | GDF012
0.2mL×12×4
12000rpm/5960×g

Angular rotor | GDF011
5mL×4
12000rpm/9660×g

Rotor 4 cryotubes | GDF006
5/1.8/1.1mL×4
7000rpm/3180×g

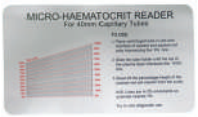
Microhaematocrit rotor | GDF005
20ul×12
12000rpm y 8371×g
Capillary length 40 mm

ADAPTERS AND ACCESSORIES INCLUDED

Adapter | GDF001
0,2mL tubes

Adapter | GDF002
0,5 mL tubes

Adapter | GDF017
1.1/1.8 mL tubes



Capillary reading card | GDF018
only for fixed speed models

RECOMMENDED TUBES

0,2 mL microtubes	BGN003, BGN026
0,5 mL microtubes	BGN004
2 mL microtubes	BGN025
1,5 mL microtubes	BGN005, BGN011, BGN012, BGN013, BGN014, BGN015, BGN027
Strip of microtubes of 8×0.2 mL	BGN006
5mL Eppendorf tube	BGN029
Capillary microhaematocrit	ZMB048

GDC - Mini-centrifuges

Model RS-1008

1| This centrifuge is ideal for quick spins, sample microfiltration, cell separations, and many other common laboratory procedures.
2| Easy to operate with a dual start/stop function.
3| Secure, durable, and robust rotor with a clip-lock design.
4| Quick-change rotor without any tools.

Code	GDC007
RCF max. (xg)	2680
Max. speed (rpm)	7000
Capacity	8 tubes of 0.2 / 0.5 / 1.5 / 2.0 mL 4 PCR strips of 8 microtubes of 0.2 mL
Timer	Continuous operation
Dim.(LxAxH) (mm)	160x170x122
Weight (kg)	0,5
Power (W)	20
Power supply	AC 110-240 V; 50/60 Hz

Rotors, included in the equipment

| Angular rotor
8 tubes of 2 mL, 1.5 mL

| Rotor strips PCR
4 strips of 8 microtubes PCR 0.2 mL, 0.5 mL, 0.2 mL

Adapters, included in the equipment

| 8 adapters
For microtubes of 0.5 mL

| 8 adapters
For microtubes of 0.2 mL

RECOMMENDED TUBES

0,2 mL microtubes	BGN003, BGN026
0,5 mL microtubes	BGN004
2 mL microtubes	BGN025
1,5 mL microtubes	BGN005, BGN011, BGN012, BGN013, BGN014, BGN015, BGN027
Microtube strip 8 x 0,2 mL	BGN006

Mini centrifuge D1012UA

1| OLED screen from which speed and time can be modified. Screen buttons can adjust motor start/stop, supporting soft braking and instant stop modes.
2| Brushless DC motor, smooth and silent operation.

Code	GDC012
RCF max. (xg)	7490
Max. speed (rpm)	10000
Capacity	12 x 0,5/1,5/2,0 mL 44 x 0.2 m PCR tubes 4 PCR strips of 8 x 0.2 mL
Timer	Continuous operation
Dim.(LxAxH) (mm)	210x180x130
Weight (kg)	1,5
Power (W)	40
Power supply	AC100-240V/50Hz/60Hz

GDC - Mini-centrifuges

Centrifuge for microplates

nahita blue

1| Features gradual start and stop. Instant centrifugation function reaching maximum speed in 6 seconds. Over-speed and imbalance detection system.
2| Designed for small-capacity 96 or 384-well microplates, as well as PCR tube strips, with an adapter (included).
3| Full-segment LCD screen. Quiet and stable operation. Transparent top cover.
4| The P-X microplate centrifuge is specially designed to quickly and efficiently centrifuge standard microplates with or without rims.
5| Lid opening button, with an instant centrifugation function reaching maximum speed in 6 seconds.

Code	GDC011
Model	P-X
Speed (rpm)	300-3000 (± 15 rpm)
RCF max. (xg)	608
Timer	1-99 min. / 1-59 sec.
Capacity	2×96-well microplates/ELISA plates
Weight	3,9 Kg
Dimensions (LxAxH) (mm)	225x255x215
Power (W)	55
Power supply	AC 100 - 250 V / 50/60 Hz

ADAPTER INCLUDED

Adapter PCR8 | GDF019
Adapter for PCR strips 8x0.2 mL

SEALING FILMS FOR PLATES

Code	BRD011	BRD012	BRD013
Sealing	Pressure sensitive	Self-adhesive	Pressure sensitive
Dimensions	116.5 mm x 77mm.	116.5 mm x 80mm.	116.5 mm x 80mm.
Material	PP	PET	PP
Temperature range	-70ºC a 110ºC	-20ºC a 100ºC	-70ºC a 110ºC

RECOMMENDED PLATES

96-well plate	BGN039, BGN040, BGN041, BGN042, BGN043, BGN044, BGN045, BGN046, BGN047
Microtube strip 8 x 0,2 mL	BGN006

GJC - Bench top

Model HiFuge-GJ6

RS Lab

1| Metal base, plastic body, and cover. Compact and silent design.
2| Plastic angular rotor for 12 microtubes of 1.5 and 2 mL, with cover. Backlit LCD screen.
3| Option to program speed or centrifugal force (RCF). Pulse function.
4| Several safety features. Manual lid opening in case of blockage.
5| Brushless, maintenance-free continuous current engine.
6| GJM002 and GJM003 adapters for 0.2 mL and 0.5 mL tubes respectively (not included).
7| IVD certificate.

YouTube

Code	GJC006
Speed (rpm)	500-15000 (100 rpm increment)
RCF range (xg)	100-15100 (Increment of 100 xg)
Timer	30 sec – 99 min + mode HOLD mode for continuous operation
Maximum capacity (mL)	12 x 2
Acceleration / braking (s)	11 / 9
Dimensions (LxAxH)	270 x 250 x 170 mm
Power (W)	180
Weight (kg)	4,6

RECOMMENDED TUBES

0,2 mL microtubes	BGN003, BGN026
0,5 mL microtubes	BGN004
2 mL microtubes	BGN025
1,5 mL microtubes	BGN005, BGN011, BGN012, BGN013, BGN014, BGN015, BGN027

Model D3024

DLAB

1| The dual air cooling design ensures rapid cooling of the rotor and low energy consumption.
2| Brushless engine requiring no maintenance. Safety features include lid locking, detection of excessive speed and temperature, as well as automatic self-diagnosis.
3| Rotors with 3-layer sealing ensure safe centrifugation.
4| Excellent rotors made of aluminum alloy, fully sterilizable in autoclave at 121°C.

NEW

Code	GJC007
Speed (rpm)	200-15000 (10 rpm increment)
RCF max. (xg)	21380 (Increment of 10 xg)
Timer	30 sec. - 99 min. / Continuous operation
Maximum capacity (mL)	90 mL (18 x 5 mL)
Acceleration / braking (s)	25 / 25
Dimensions (LxAxH)	365x277x275 mm
Power (W)	200
Weight (kg)	13

ROTOR INCLUDED

Angular rotor | GJK014
24 x 1.5/2mL
Microtubes of 0.2 and 0.5 mL can be centrifuged using adapters ref. GJM002 and GJM003, respectively.

ROTORS NOT INCLUDED - COMPATIBLE

Angular rotor| GJK012
0.5 mL×18

Angular rotor| GJK013
5 mL×12

Angular rotor| GJK015
0.5 mL×36

Angular rotor| GJK016
0,2 mL×8X4

GJF - Bench top, refrigerated

High-speed refrigerated centrifuge RS-1524

1| Ideal for centrifuging temperature-sensitive samples, such as cells or proteins. Suitable for many applications, including precipitation of DNA and RNA samples, precipitation of PCR-amplified nucleic acids, separation of antibody and protein precipitates, performing enzymatic tests, removing cellular debris from cell homogenates, and achieving fractionation of bacterial and yeast cells.
2| Safety: double lock on the lid, overspeed detection, overheating detection with internal diagnostic system. Alarm for rotor imbalance.
3| Motor type: DC, brushless. Refrigerant gas type: R290.
4| Pre-cooling time of only 7 minutes from ambient temperature to 4ºC.
5| Acceleration/deceleration in 9 steps, allowing for gentle braking at low speeds for better separation.

Code	GJF002
Max. RCF (xg)	21.380 (increments of 10 xg)
Speed (rpm)	15000 (increments of 100 rpm)
Capacity	1.5/2 mL×24; 0.5 mL×36; PCR8×4; 5 mL×12; 5 mL×18.
Temperature setting (ºC)	-20 / +40
Timer	30 s / 99 min (Continuous operation)
Acceleration / Deceleration (s)	25
Dimensions (LxAxH) (mm)	332 x 553 x 283
Weight (kg)	30
Power (W)	500
Power supply	200-240 V; 50 Hz

ROTOR INCLUDED

Angular rotor | GJK014
24x1,5/2 mL

NOT INCLUDED

Angular rotor | GJK012
0.5 mL×18

Angular rotor | GJK013
5 mL×12

Angular rotor | GJK015
0.5 mL×36

Angular rotor | GJK016
0,2 mL×8X4

NOTE: all rotors with biosafety lid

GLC - Bench top

Medibas+ centrifuge mod. 2741

1| Housing and base made of steel with an inner tank of stainless steel.
2| Metal base lid with a suspension mechanism and window. Digital control by microprocessor, LCD screen, and single control selector.
3| Included autoclaveable swing rotor and autoclaveable tube holder for the use of different tubes. Electromechanical lock that prevents the lid from opening during centrifugation.
4| Manual lid opening in case of power failure. Safety system that automatically stops the equipment if the maximum speed is exceeded.
5| Speed programming in RPM or RCF.
6| Maintenance-free induction motor. The motor is controlled by an advanced and reliable sinusoidal vector FOC system that can accurately control speed, time, and relative centrifugal force (RCF).

NEW

Code	GLC001
Capacity	400 mL
Timer (min)	1-99 hours / 1-59 minutes / 1-59 seconds
Speed (rpm)	100-6000
RCF (g)	5150 ×g (increments of ×g)
Acceleration ramps	1-9
Braking ramps	0-9
Memory	30 custom programs
Power supply	220 V / 50-60 Hz
Power (W)	350
Approx. dimensions (mm)	390×500×320
Approx. weight (Kg)	30

INCLUDED

Swing out rotor | GLK014
5000 rpm/3040 ×g

INCLUDED

Tube holder | GNP003
100 mL×4
5000 rpm/4108 ×g

Tube holder | GNP005
50 mL×8
4000 rpm/2720 ×g

Tube holder | GLK002
10/15 mL×16
4000 rpm/2790 ×g

NOT INCLUDED

Tube holder | GNP004
50 mL×4
5000 rpm/4135 ×g

Tube holder | GLK005
5 mL×24
4000 rpm/2540 ×g

ANGULAR ROTOR - NOT INCLUDED

Angular rotor | GLK006
15 mL×12
6000 rpm/5150 ×g

Angular rotor | GLK007
50 mL×8
5000 rpm/3435 ×g

Microplate rotor | GNP017
4 microplates × 2 × 96; 2 deep well plates × 2 × 96
4000 rpm/2860 ×g

ADAPTERS AND TIPS - NOT INCLUDED

Tip| GLK009
3 mL

Adapter | GLK010
5 mL

Adapter | GLK011
8 mL

Tip | GLK012
15 mL

Tip | GLK013
50 mL

GLC - Bench top

Digital Centrifuge RS-0424

1| Versatile equipment that can be used in clinical and biochemical applications for analyzing serum, plasma, blood, and urine quality.
2| Compact and convenient, with an LCD screen. The equipment comes with 3 customizable routine programs (blood, urine, and stool).
3| 3 levels of acceleration and 4 levels of deceleration.
4| Automatic diagnosis and self-detection.
5| Maintenance-free brushless DC motor.

Code	GLC002
Max RCF (xg)	2500
Speed (rpm)	500-4000 (increments of 100 rpm)
Capacity	4x50 mL oscillating rotor (code GLH008)
	6x15 mL oscillating rotor (code GLH009)
	24x15 mL angular rotor (code GLH010)
	12x10 mL/8x15 mL angular rotor (réf. GLH011)
Timer	1 s / 99 min (Continuous operation)
Programs	Blood: 3200 rpm,10 min.
	Urine: 1800 rpm,5 min.
	Stool: 1300 rpm,10 min.
Acceleration/Deceleration (s)	3 / 4 stages
Dimensions (LxAxH) (mm)	440 x 364 x 268
Weight (kg)	14,5
Power (W)	500
Power supply	110-240 V; 50/60 Hz

Rotors, not included with the equipment

| Oscillating rotor
Code GLH008
Max. speed: 4000 rpm
Capacity 4x50 mL

| Oscillating rotor
Code GLH009
Max. speed: 4000 rpm
Capacity: 6x15 mL

| Oscillating rotor
Code GLH010
Max. speed: 4000 rpm
Capacity: 24x15 mL

Code	Description	Max. speed
GLH008	Oscillating rotor 4x50 mL	4000 rpm
GLH009	Oscillating rotor 6x15 mL	4000 rpm
GLH010	Angular rotor 24x15 mL	4000 rpm
GLH011	Angular rotor 8X15 mL; 12X10 mL	4000 rpm
GLH012	Angular rotor 8x15 mL	-

GLC - Bench top

High speed, Model 2811

nahita blue

1| Compatible with angular rotors of different capacities and tube numbers. Steel housing and base. Stainless steel inner bucket and safety chamber made of steel between the bucket and the cabinet. Metal base lid with suspension mechanism and window.
2| Manual lid opening in case of power failure. Safety system that automatically stops the device if the maximum speed is exceeded.
3| Speed programming in rpm or RCF. Maintenance-free induction motor. The motor is controlled by an advanced and reliable vector control system of sinusoidal pulse width modulation (FOC) that can precisely control the speed, time, and relative centrifugal force (RCF). Automatic rotor detection.

Code	GLC003
Speed (rpm)	200-18000 (10 rpm increment)
RCF max. (xg)	24100 (Increment of 10 xg)
Timer	1-99 h. / 1-59 min. / 1-59 sec.
Maximum capacity	400 mL
Acceleration/braking ramp	1-9 / 0-9
Memory	10 custom programme (5 external quick access buttons)
Weight	35 Kg
Dimensions (LxAxH) (mm)	500x390x330
Power (W)	500
Power consumption	220V / 50-60 Hz

ANGULAR ROTORS COMPATIBLE WITH THE UNIT - NOT INCLUDED

Angular rotor | GLK016
1.5/2 mL×24
16000rpm/24100×g

Angular rotor | GLK020
0.5 mL×36
15000rpm/16350×g

Angular rotor | GLK022
5 mL×12
16000rpm/18890×g

Angular rotor | GLK019
0.2 mL×8×4
14800rpm/16200×g

Angular rotor | GLK024
15 mL×8
13000rpm/17570×g

Angular rotor | GLK025
50 mL×6
12000rpm/14750×g

Angular rotor | GLK026
100 mL×4
12000rpm/15940×g

Angular rotor | GLK023
10 mL×12
13000rpm/15315×g

Angular rotor | GLK021
1.5/2 mL×12
18000rpm/22530×g

Angular rotor | GLK042
1.5/2 mL×36
14000rpm/17970×g

INCLUDED WITH GLK016, GLK042, GLK021 ROTORS

Adapter | GDF001
0,2 mL tubes

Adapter | GDF002
0,5 mL tubes

Compatible adaptors - NOT INCLUDED

Adapter | GDF014
15 mL

Bottom pad | GDF015
50 mL

RECOMMENDED TUBES

0,2 mL microtubes	BGN003, BGN026
0,5 mL microtubes	BGN004
2 mL microtubes	BGN025
1,5 mL microtubes	BGN005, BGN011, BGN012, BGN013, BGN014, BGN015, BGN027
Microtube strip 8 x 0,2 mL	BGN006
50 mL Falcon tubes	BGD011, BGD085, BGD086, BGD087, BGD072, BGD026, BGD040, BGD034
15 mL Falcon tubes	BGD010, BGD082, BGD083, BGD084, BGD024, BGD025, BGD039, BGD029, BGD030,

GLC - Bench top

Digital Angular Fugelab-GB10

nahita blue

1| Tabletop angular centrifuge controlled by a microprocessor and equipped with a maintenance-free induction motor, for centrifugation of a wide range of tubes for centrifugation of a wide range of tubes, including sizes from 5 mL to 15 mL.
2| With digital programming via a LED display and an easy-to-use keyboard, the device can be programmed in rpm or RCF and has memory of the last centrifugation program.
3| It features a wide metal base and sturdy legs for secure attachment to the work surface, allowing it to carry out centrifugation programs in a completely stable and silent manner.
Recommended for routine laboratory techniques such as cell suspension concentration, serum or plasma separation, etc.

Code	GLC004
Speed (RPM)	100-4000 (10 rpm increment)
RCF max. (xg)	2250 (Increment of 10 xg)
Timer	1-99 min.
Capacity	240 mL
Weight	16 Kg
Dimensions (LxAxH) (mm)	485x375x290
Power (W)	110
Power supply	220VAC / 50-60 Hz

ANGULAR ROTOR INCLUDED

Angular rotor | GBK016
12×15 mL
4000rmp / 2250 ×g

Compatible rotors - NOT INCLUDED

Angular rotor | GBK021
18×10 mL
4000rmp / 2250 ×g

Angular rotor | GBK022
24×5/10 mL
4000rmp / 2250 ×g

COMPATIBLE ADAPTERS - NOT INCLUDED

Adapter | GBK002
13×100mm tubes

Adapter | GBK003
13×75mm tubes

RECOMMENDED TUBES

15 mL Falcon tubes	BGD010, BGD082, BGD083, BGD084, BGD024, BGD025, BGD039, BGD029, BGD030

GLC - Bench top

High-speed centrifuge 2624/2

nahita blue

1| Brushless maintenance-free variable frequency induction motor, with a speed range of 100-15000 rpm and a precision of ± 20 rpm.
2| The high-strength materials of the centrifuge and rotor can withstand various chemical corrosions.
3| A single large-size digital LCD screen, with clear and crisp operating parameters. A single-button adjustment of speed/RCF parameters and mutual conversion facilitates quick adjustment and real-time display of relative centrifugal force during operation.
4| The single-button rotary control allows for quick parameter changes. When the operation is completed, errors or imbalances occur, a sound signal is emitted, and the operation stops simultaneously. The screen displays an error code.
5| Automatic recognition and detection of imbalance of the rotary rotor and relative centrifugal force (RCF).

Code	GLC005
Speed (rpm)	100-15000 (10 rpm increment)
RCF max. (xg)	21180 (Increment of 10 xg)
Timer	1-99 min. / 1-59 sec.
Maximum capacity	50 mL
Acceleration ramp	1-9
Brake ramp	0-9
Memory	30 customised programmes
Weight	17 Kg
Dimensions (LxAxH) (mm)	280x360x250
Power (W)	450
Power supply	220V / 50-60 Hz

ANGULAR ROTORS COMPATIBLE WITH THE UNIT - NOT INCLUDED

Angular rotor | GLK027
1.5/2 mL×24
15000rpm/21180×g

Rotor microhématocrite| GLK017
50 µl×24
12000rpm/13600×g

Angular rotor | GLK018
5 mL×10
13500rpm/12920×g

Angular rotor | GLK028
0.2 mL×8×4
14800rpm/16200×g

Angular rotor | GLK029
0.5 mL×36
13500rpm/13250×g

INCLUDED WITH ROTOR GLK027

Adapter | GDF001
0,2 mL tubes

Adapter | GDF002
0,5 mL tubes

RECOMMENDED TUBES

0,2 mL microtubes	BGN003, BGN026
0,5 mL microtubes	BGN004
2 mL microtubes	BGN025
1,5 mL microtubes	BGN005, BGN011, BGN012, BGN013, BGN014, BGN015, BGN027
5 mL microtubes	BGN029
Microtube strip 8 x 0,2 mL	BGN006

GLC - Bench top

Low speed Model 2831

nahita blue

1| Compatible with oscillating and angular rotors. Automatic recognition of the rotor. Imbalance detection.
2| Speed adjustment in rpm or RCF.
3| Brushless maintenance-free variable frequency continuous current motor, with a speed range of 100-6000 rpm and a precision of ± 20 rpm.
4| The motor is controlled by an advanced and reliable sinusoidal pulse width modulation (FOC) vector control system that can precisely control speed, time, and relative centrifugal force.
5| Can store 30 customized programs.
6| With multiple acceleration and deceleration ramps to meet different experimental requirements. Safety system in case of exceeding the speed.

Code	GLC006
Speed	100-6000 rpm (Increment of 10 rpm)
RCF	5350×g (Increment of 10×g)
Timer	1-99 h./1-59 min./1-59 sec.
Maximum capacity	450 mL (15 mLX30)
Weight	26 Kg
Dimensions	450x365x315 mm
Powe supply	AC220 V / 50 Hz
Power	350 W

INCLUDED

Swing out rotor | GLH013
4000rpm/2736×g

NOT INCLUDED

Tube holder | GLK043
100 mL×4
4000rpm/2720×g

Tube holder | GLK044
50 mL×4
4000rpm/2665×g

Tube holder | GLK045
15 mL×8
4000rpm/2736×g

NOT INCLUDED IN THE EQUIPMENT

Angular rotor | GLK041
15 mL×12
6000rpm/5350×g

Angular rotor | GLH014
15 mL×24
5000rpm/3690×g

Angular rotor | GLH015
15 mL×30
5000rpm/405 0×g

Angular rotor | GLH016
20 mL×12
5000rpm/3800 xg

Angular rotor | GLH017
50 mL×6
6000rpm/4346×g

Rotor for microplates | GLH018
2 microplaques ×2×96
4000rpm/2236×g

Bottom pad | GLK012
15 mL

Bottom pad | GLK013
50 mL

RECOMMENDED TUBES

15 mL Falcon tubes	BGD010, BGD082, BGD083, BGD084, BGD024, BGD025, BGD039, BGD029, BGD030 BGD031, BGD032, BGD033
50 mL Falcon tubes	BGD011, BGD085, BGD086, BGD087, BGD072, BGD026, BGD040, BGD034, BGD035 BGD036, BGD037, BGD038

GLF - Bench top, refrigerated

High-speed refrigerated, 2821R

nahita blue

1| Stainless steel chamber coated with Teflon, robust construction, suitable for continuous use.
2| Maintenance-free brushless variable frequency induction motor. The motor is controlled by an advanced and reliable sinusoidal pulse width modulation (FOC) vector control system that can precisely control speed, time, and relative centrifugal force (RCF).
3| A single large digital LCD screen, with clear and crisp operating parameters. A button for adjusting speed/RCF parameters and mutual conversion facilitates quick adjustment and real-time display of relative centrifugal force during operation.
4| Single-button rotary control allows for quick parameter changes.
5| Automatic recognition and detection of imbalance of the rotating rotor to ensure centrifugation safety.

Code	GLF002
Speed (rpm)	100-16000 (10 rpm increment)
FCR max. (xg)	24100 (Increment of 10 xg)
Timer	1-99 h. / 1-59 min. / 1-59 sec.
Temperature range	-20 ºC / +40 ºC
Max. temperature at máx. speed	0 ºC
Acceleration and braking ramps	1-9 / 0-9
Memory	10 customised programmes *(5 external buttons for quick access)*
Maximum capacity	50 mL
Weight	47 Kg
Dimensions (LxAxH) (mm)	360x600x285
Power (W)	650
Power supply	220VAC / 50-60 Hz

ANGULAR ROTORS COMPATIBLE WITH THE UNIT - NOT INCLUDED

Angular rotor | GLK027
1.5/2 mL×24
16000rpm/24100×g

Microhematocrit rotor | GLK017
50 µl×24
12000rpm/13600×g

Angular rotor | GLK018
5 mL×10
16000rpm/18140×g

Angular rotor | GLK028
0.2 mL×8×4
14800rpm/16200×g

Angular rotor | GLK029
0.5 mL×36
15000rpm/16350×g

ACCESSORIES - INCLUDED WITH THE GLK027 ROTOR

Adapter | GDF001
0,2 mL tubes

Adapter | GDF002
0,5 mL tubes

Capillary reading card | GLL001
Used with the GLK017 microhaematocrit rotor in the GLC005 and GLF002 centrifuges.

RECOMMENDED TUBES

0,2 mL microtubes	BGN003, BGN026
0,5 mL microtubes	BGN004
2 mL microtubes	BGN025
1,5 mL microtubes	BGN005, BGN011, BGN012, BGN013, BGN014, BGN015, BGN027
5 mL microtubes	BGN029
Microtube strip 8 x 0,2 mL	BGN006

GLF - Bench top, refrigerated

High speed refrigerated, 2811R

nahita blue

1| Compatible with angular rotors of different capacities and tube numbers.
2| Steel housing and base. Stainless steel inner chamber and steel safety chamber between the chamber and the cabinet.
3| Equipped with an environmentally friendly R134a gas compressor SECOP® for optimal chamber cooling, with start/stop function that turns off when an open lid is detected and restarts when closed.
4| Electromechanical closure preventing lid opening during centrifugation.
5| Manual lid opening in case of power failure. Safety system that automatically stops the device if the maximum speed is exceeded.
6| Speed programming in rpm or RCF. Maintenance-free induction motor. The motor is controlled by an advanced and reliable sinusoidal pulse width modulation (FOC) vector control system that can precisely control speed, time, and relative centrifugal force (RCF).

Code	GLF003
Speed (rpm)	200-16000 (10 rpm increment)
RDF max. (xg)	24100 (Increment of 10 xg)
Timer	1-99 h. / 1-59 min. / 1-59 sec.
Temperature range	-20 ºC / +40 ºC
Min. temperature at max. speed	0 ºC
Acceleration and braking ramps	1-9 / 0-9
Memory	30 customised programmes *(5 external buttons for quick access)*
Maximum capacity	400 mL
Weight	60 Kg
Dimensions (LxAxH) (mm)	493x584x345
Power (W)	750
Power supply	220V / 50-60 Hz

ANGULAR ROTORS COMPATIBLE WITH THE UNIT - NOT INCLUDED

Angular rotor | GLK016
1.5/2 mL×24
16000rpm/2410 0×g

Angular rotor | GLK020
0.5 mL×36
15000rpm/16350×g

Angular rotor | GLK022
5 mL×12
16000rpm/18890×g

Angular rotor | GLK019
0.2 mL×8×4
14800rpm/16200×g

Angular rotor | GLK024
15 mL×8
13000rpm/17570×g

Angular rotor | GLK025
50 mL×6
12000rpm/14750×g

Angular rotor | GLK026
100 mL×4
12000rpm/15940×g

Angular rotor | GLK023
10 mL×12
13000rpm/15315×g

Angular rotor | GLK042
1.5/2 mL×36
14000rpm/17970×g

INCLUDED WITH GLK016, GLK042 ROTORS

Adapter | GDF001
0,2 mL tubes

Adapter | GDF002
0,5 mL tubes

Compatible adaptors - NOT INCLUDED

Adapter | GDF014
15mL

Bottom pad | GDF015
50mL

RECOMMENDED TUBES

0,2 mL microtubes	BGN003, BGN026
0,5 mL microtubes	BGN004
2 mL microtubes	BGN025
1,5 mL microtubes	BGN005, BGN011, BGN012, BGN013, BGN014, BGN015, BGN027
Microtube strip 8 x 0,2 mL	BGN006
50 mL Falcon tubes	BGD011, BGD085, BGD086, BGD087, BGD072, BGD026, BGD040, BGD034
15 mL Falcon tubes	BGD010, BGD082, BGD083, BGD084, BGD024, BGD025, BGD039, BGD029, BGD030

GNC - Bench top

Low speed Multibas+, 2751

nahita blue

1| Compatible with angular and oscillating rotors, allowing for a greater variety of tube types to be used.
2| Steel housing and base. Stainless steel inner chamber with a safety chamber between the chamber and the cabinet. Metal base lid with suspension mechanism and window.
3| Digital control by microprocessor, backlit LCD screen, and single-handle selector.
4| Electromechanical lock preventing the lid from opening during centrifugation.
5| Manual lid opening in case of power failure. Safety system that automatically stops the device if the maximum speed is exceeded.
6| Maintenance-free induction motor. The motor is controlled by an advanced and reliable sinusoidal pulse width modulation (FOC) vector control system that can precisely control speed, time, and relative centrifugal force (RCF).

Code	GNC001
Speed (rpm)	100-6000 (10 rpm increment)
RDF max. (xg)	5150 (Increment of 10 xg)
Timer	1-99 h. / 1-59 min. / 1-59 sec.
Acceleration and braking ramps	1-9 / 0-9
Memory	10 customised programmes
Maximum capacity	480 mL
Weight	36 Kg
Dimensions (LxAxH) (mm)	418x56x338
Power (W)	450
Power supply	220V / 50-60 Hz

INCLUDED

Swing out rotor | GNP011
5000rpm/4980×g

NOT INCLUDED

Tube holder | GNP003
100 mL×4
5000rpm/4600 ×g

Tube holder | GNP004
50 mL×4
5000rpm/4980 ×g

Tube holder | GNP005
50 mL×8
4000rpm/3040 ×g

Tube holder | GNP006
10/15 mL×24
4000rpm/3040 ×g

Tube holder | GNP007
10/15 mL×32 / 4000rpm/3040 ×g

Tube holder | GNP008
5 mL×48 / 4000rpm/3040 ×g

Tube holder | GNP009
3/5/7 mL×72 /
4000rpm/3040 ×g

ANGULAR ROTORS NOT INCLUDED

Angular rotor | GLK006
15 mL×12
6000rpm/5150×g

Angular rotor | GLK007
50 mL×8
6000rpm/5150×g

Angular rotor | GLK008
15 mL×30
5000rpm4100×g

Rotor for microplates| GNP010
4 microplaques ×2×96 // 2 Deep well plates ×2×96
4000rpm/2860×g

BOTTOM PADS AND ADAPTERS

INCLUDING
Bottom pad | GLK009
3 mL

Bottom pad | GLK012
15 mL

Bottom pad | GLK013
50 mL

Adapter | GLK015
15 mL

Adapters|

Code	Cap.
GLK010	5 mL
GLK011	8 mL

GNC - Bench top | GNF - Bench top, refrigerated

HiCap+ low speed, 2761

nahita blue

1| Compatible with angular and oscillating rotors, allowing for a greater variety of tube types to be used. Automatic detection of the placed rotor and automatic shutdown in case of sample imbalance.
2| Lid closure by electric suction at two points for increased safety.
3| Flash button for instant centrifugation. Equipped with a slow start function.
4| With USB port for system update and experimental data download.
5| 5-inch color LCD screen with adjustable brightness and resolution of 1024x600dpi.
6| Wide selection of rotors and accessories (not included). Availability of hermetically sealed vials for biological samples or hazardous substances.
7| The motor is controlled by an advanced and reliable sinusoidal pulse width modulation (FOC) vector control system that can precisely control speed, time, and relative centrifugal force (RCF).

Code	GNC002	GNC003
Maximum capacity	1000 mL (GNP019)	2000 mL (GNP025)
Speed (rpm)	200-6000 (10 rpm increment)	
RCF max. (xg)	5150 (Increment of 10 xg)	
Timer	1-99 h. / 1-59 min. / 1-59 sec.	
Acceleration ramps	1-9	
Brake ramp	0-9	
Memory	10 programmes (5 external buttons for quick access)	
Weight	53 Kg	
Dimensions (LxAxH) (mm)	450x550x340	
Power (W)	650	
Powers supply	220V / 50-60 Hz	

Low speed HiCap+ refrigerated, 2761R

nahita blue

1| Compatible with angular and oscillating rotors, allowing for a greater variety of tube types to be used. Automatic detection of the placed rotor and automatic shutdown in case of sample imbalance.
2| Lid closure by electric suction at two points for increased safety.
3| Flash button for instant centrifugation. Equipped with a slow start function.
4| With USB port for system update and experimental data download.
5| 5-inch color LCD screen with adjustable brightness and resolution of 1024x600dpi.
6| Wide selection of rotors and accessories (not included). Availability of hermetically sealed vials for biological samples or hazardous substances.
7| The motor is controlled by an advanced and reliable sinusoidal pulse width modulation (FOC) vector control system that can precisely control speed, time, and relative centrifugal force (RCF).

Code	GNF003	GNF005
Maximum capacity	1000 mL (GNP019)	2000 mL (GNP025)
Speed (rpm)	200-6000 (10 rpm increment)	
RCF max. (xg)	5150 (Increment of 10 xg)	
Timer	1-99 h. / 1-59 min. / 1-59 sec.	
Temperature range	20/40 ºC	
Acceleration ramps	1-9	
Braking ramps	0-9	
Memory	30 programmes (5 external buttons for quick access)	
Weight	95 Kg	
Dimensions (LxAxH) (mm)	700x620x380	
Power (W)	850	
Power supply	220V / 50-60 Hz	

Rotors and accessories for centrifuges GNC002 / GNC003 and GNF003 / GNF005

OSCILLATING ROTORS FOR GNC002 / GNF003

INCLUDED

Swing out rotor | GNP019
4000 rpm/3040 ×g

NOT INCLUDED

Hanging cup with biosafety lid | GNP020
250 mL×4
4000rpm/3040 ×g

Tube holder | GNP013
50 mL×8+15 mL×8
4000 rpm/3040 ×g

Tube holder | GNP021
50 mL×8+5 mL×16
4000 rpm/3040 ×g

Tube holder | GNP022
15 mL×28
4000 rpm/3040 ×g

Tube holder | GNP024
5 mL×40
4000 rpm/3040 ×g

Tube holder | GNP023
100 mL×4
4000 rpm/3040 ×g

OSCILLATING ROTORS FOR GNC003 / GNF005

INCLUDED

Swing out rotor | GNP025
4000 rpm/3095 ×g

NOT INCLUDED

Hanging cup | GNP026
500 mL×4
4000 rpm/3095 ×g

Tube holder | GNP027
250 mL×4
4000 rpm/3095 ×g

Tube holder | GNP028
50 mL×16
4000 rpm/3095 ×g

Tube holder | GNP029
15 mL×36
4000 rpm/3095 ×g

Tube holder | GNP030
100 mL×12
4000 rpm/3095 ×g

Tube holder | GNP031
5 mL×84
4000 rpm/3095 ×g

OTHER ROTORS FOR GNC002 / GNC003 / GNF003 AND GNF005 - NOT INCLUDED

Angular rotor| GNM008
15 mL×12
6000 rpm/5150 ×g

Angular rotor| GNP034
50 mL×8
6000 rpm/5150 ×g

Rotor for microplates | GNP035
4 microplates×2×96
2 deep-well plates×2×96
4000 rpm/2860 ×g

Oscillating rotor| GNP032
13x100 mL
4000 rpm/3050 ×g

ADAPTERS AND TIPS GNC002 / GNC003 / GNF003 AND GNF005 - NOT INCLUDED

Adaptes|

Code	Cap.
GLK010	5 mL
GLK011	8 mL

Adapter | GLK015
15 mL

Bottom pad| GNQ003
Type of vacutainer 13×75mm

RECOMMENDED TUBES

15 mL Falcon tubes	BGD010, BGD082, BGD083, BGD084, BGD024, BGD025, BGD039, BGD029, BGD030 BGD031, BGD032, BGD033
50 mL tubes	BGD011, BGD085, BGD086, BGD087, BGD072, BGD026, BGD040, BGD034, BGD035 BGD036, BGD037, BGD038
Flat-bottomed PP bottles 250 mL	GNQ001
Flat-bottomed PP bottles 250 mL	GNQ002

GNF - Bench top, refrigerated

Low speed Medibas+ refrigerated, 2741R

nahita blue

1| Steel housing and base. Stainless steel inner chamber and safety chamber made of steel between the chamber and the cabinet.
2| Equipped with an environmentally friendly R134A gas compressor SECOP® for optimal chamber cooling, with start/stop function that turns off when the open lid is detected and turns back on when closed.
3| Lid with metal base, suspension mechanism, and porthole.
4| Digital control by microprocessor, 5-inch backlit LCD screen, single-handle selector, and control panel.
5| Electromechanical closure preventing lid opening during centrifugation. Manual lid opening in case of power failure. Safety system that automatically stops the device if the maximum speed is exceeded.
6| Speed programming in rpm or RCF. Maintenance-free induction motor. The motor is controlled by an advanced and reliable sinusoidal pulse width modulation (FOC) vector control system that can precisely control speed, time, and relative centrifugal force (RCF).

Code	GNF001
Speed	100~6000 rpm (10 rpm increment)
RCF	5150 ×g (increment of 10 ×g)
Timer	1-99 hours/1-59 minutes/1-59 seconds.
Temperature range	-20 ºC~+40 ºC
Min. temperature at max. speed	0 ºC
Maximum capacity	400 mL
Weight	65Kg
Dimensions	634 × 548 × 335 mm
Power supply	AC220 V / 50-60 Hz
Power	550 W
Memory	10 programmes (5 external buttons for quick access)
Acceleration and braking ramps	1-9 / 0-9

INCLUDED

Swing out rotor | GNM001
5000rpm/3040×g

NOT INCLUDED

Tube holder | GNP003
100 mL×4
5000 rpm/4108 ×g

Tube holder | GNP004
50 mL×4
5000 rpm/4135 ×g

Tube holder | GNP005
50 mL×8
4000 rpm/2720 ×g

Tube holder | GLK002
10/15 mL×16
4000 rpm/2790 ×g

Tube holder | GLK005
5 mL×24
4000 rpm/2540 ×g

ANGULAR ROTORS NOT INCLUDED

Angular rotor | GNM002
15 mL×12
6000 rpm/5150 ×g

Angular rotor | GNM003
50 mL×8
5000 rpm/3435 ×g

Rotor for microplates | GNP016
4 microplates×2×96
2 deep-well plates×2×96
4000 rpm / 2860 ×g

BOTTOM PADS AND ADAPTERS NOT INCLUDED

INCLUDING
Bottom pad | GLK009
3 mL

Adapters |

Code	Cap.
GLK010	5 mL
GLK011	8 mL

Bottom pad | GLK012
15 mL

Bottom pad | GLK013
50 mL

RECOMMENDED TUBES

15 mL Falcon tubes	BGD010, BGD082, BGD083, BGD084, BGD024, BGD025, BGD039, BGD029, BGD030 BGD031, BGD032, BGD033
50 mL tubes	BGD011, BGD085, BGD086, BGD087, BGD072, BGD026, BGD040, BGD034, BGD035 BGD036, BGD037, BGD038
100 mL tubes	GLK001

GNF - Bench top, refrigerated

Low-speed refrigerated Multibas+, 2751R

nahita blue

1| Steel housing and base. Stainless steel inner chamber and safety chamber made of steel between the chamber and the cabinet.
2| Equipped with an R134a gas compressor for optimal chamber cooling with start/stop function that turns off when the open lid is detected and turns back on when closed.
3| Lid with metal base, suspension mechanism, and porthole. Electromechanical closure preventing lid opening during centrifugation.
4| Manual lid opening in case of power failure. Safety system that automatically stops the equipment if the maximum speed is exceeded.
5| Maintenance-free induction motor. Controlled by an advanced and reliable sinusoidal pulse width modulation (FOC) vector control system that precisely controls speed, time, and relative centrifugal force (RCF).

Code	GNF002
Speed	200~6000rpm (10 rpm increment)
RCF	5150×g
Timer	1-99 heures/1-59 minutes/1-59 secondes
Temperature range	-20ºC~+40 ºC
Min. temperature at max. speed	0 ºC
Maximum capacity	480 mL
Dimensions	560 × 680 × 376 mm
Weight	76 Kg
Power supply	AC220V/50-60 Hz
Power	650 W
Memory	30 customised programmes
Acceleration and braking ramps	1-9 / 0-9

INCLUDED

INCLUDING
Swing out rotor | GNM004
5000rpm/4980×g

NOT INCLUDED

Tube holder | GNP003
100 mL×4
5000 rpm/4600 ×g

Tube holder | GNP004
50 mL×4
5000 rpm/4980 ×g

Tube holder | GNP005
50 mL×8
4000 rpm/3040 ×g

Tube holder | GNP006
8/10/15 mL×24
4000 rpm/3040 ×g

Tube holder | GNP007
8/10/15 mL×32
4000 rpm/3040 ×g

Tube holder | GNP008
3/5 mL×48
4000 rpm/3040 ×g

Tube holder | GNP009
3/5/7 mL×72
4000 rpm/3040×g

ANGULAR ROTORS NOT INCLUDED

Angular rotor|
GNM005
15mL×12
6000rpm/5150×g

Angular rotor|
GNM006
50 mL×8
6000 rpm/5150 ×g

Angular rotor|
GNM007
15 mL×30
5000 rpm/4100 ×g

Rotor for microplates|
GNP014
4 microplaques×2×96
2 deep-well plates ×2×96
4000rpm/2860×g

BOTTOM PADS AND ADAPTERS NOT INCLUDED

INCLUDING
Bottom pad | GLK009
3 mL

Adapters|
Code Cap.
GLK010 5 mL
GLK011 8 mL

Bottom pad | GLK012
15 mL

Bottom pad | GLK013
50 mL

Adapter | GLK015
15 mL

RECOMMENDED TUBES

15 mL Falcon tubes	BGD010, BGD082, BGD083, BGD084, BGD024, BGD025, BGD039, BGD029, BGD030 BGD031, BGD032, BGD033
50 mL tubes	BGD011, BGD085, BGD086, BGD087, BGD072, BGD026, BGD040, BGD034, BGD035 BGD036, BGD037, BGD038
100 mL tubes	GLK001

GNF - Bench top, refrigerated

High speed refrigerated, 2771R

nahita blue

1| Compatible with both angular and oscillating rotors, allowing for a wider variety of tubes to be used at both low and high speeds.
2| Equipped with an R134a gas compressor for optimal chamber cooling with start/stop function that turns off when the open lid is detected and turns back on when closed.
3| Automatic detection of the placed rotor and automatic shutdown in case of sample imbalance.
4| Equipped with a function to record experimental parameters and real-time display of operation history.
5| Lid closure by electric suction for increased safety.
6| 7-inch color LCD screen with adjustable brightness and a resolution of 1024x600dpi.
7| The motor is controlled by an advanced and reliable sinusoidal pulse width modulation (FOC) vector control system that can precisely control speed, time, and relative centrifugal force (RCF).
8| IPS screen to enhance image quality and screen viewing angle.

Code	GNF004
Speed	200~18000rpm (10 rpm increment)
RCF	23470×g (Increment of 10×g)
Timer	1-99 heures/1-59 minutes/1-59 secondes.
Temperature range	-20ºC~+40ºC
Min. temperature at max. speed	0 ºC
Maximum capacity	1000 mL
Dimensions	560×680×376 mm
Weight	95Kg
Power supply	AC220V/50-60 Hz
Power	850 W
Memory	30 customised programmes
Acceleration and braking ramps	1-9 / 0-9

INCLUDED

INCLUDING
Swing out rotor |
GNP036
4500rpm/3780×g

NOT INCLUDED

Hanging cup |
GNP037
250 mL×4
4500 rpm/ 3780 ×g

Tube holder |
GNP038
250 mLx4
4500 rpm/
3780 ×g

Tube holder |
GNP039
100 mL×8
4500 rpm/
3710 ×g

Tube holder |
GNP040
50 mL×16
4500 rpm/
3780 ×g

Tube holder |
GNP041
15 mL×32
4500rpm
/3780 ×g

Tube holder |
GNP042
5 mL×64
4000 rpm/
2860 ×g

Tube holder |
GNP043
8/10 mL×52
4000 rpm/
2916 ×g

OTHER OPTIONAL ROTORS NOT INCLUDED

GLK030
15 mL×12
6000rpm/5150×g

GLK031
50 mL×8
6000rpm/5150×g

GLK038
15 mL×8
13000rpm
17570×g

GLK037
10 mL×12
13000rpm
15315×g

GLK032
1.5/2 mL×12
18000rpm/22530×g

GLK034
0.5 mL×36
15000rpm/16350×g

GLK039
50 mL×6
12000rpm
16501×g

GLK036
5 mLx12
16000rpm
18890×g

GLK033
1.5/2 mL×24
16000rpm/23470×g

GLK035
0.2 mLx8x4
14800rpm/16200×g

GLK040
100 mL×4
12000rpm
15940×g

GNP015
4 microplates×2×96
2 deep-well plates
×2×96
4000rpm/2505×g

INCLUDED WITH GLK032 AND GLK033 ROTORS

Adapter | GDF001
0,2 mL tubes

Adapter | GDF002
0,5 mL tubes

ADAPTERS NOT INCLUDED

Adapter | GDF014
15mL

Bottom pad | GDF015
50mL

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HBB - Education

Series 116

1| Monocular microscope with LED light and option of battery operation without the need for a power cable.
2| Monocular head inclined 45º and rotating 360º.
3| Macro and micro coaxial controls
4| Single lens fixed condenser with iris diaphragm and filter holder.

Code	HBB003
Model	116
Head	Monocular inclined 45º and rotary 360º
Eyepieces	WF10x/18 mm (Ø 23 mm)
Diopter correction	No
Nosepiece	Triple
Objetives	Achromatic 4x (NA:0,10); 10x (NA:0,25); 40x (R) (NA:0,65)
Stage	110 x 110 mm (clamps)
Focus	Coaxial knobs
Condenser	Fix single lens (A.N.: 0,65)
Diaphragm	Iris
Filter holder / Holder	Blue (Ø 32 mm)
Illumination	LED diode (adjustable)
Power	Adaptor (220V, 50/60Hz); Batteries 3x1,5V (AA)

'E' Series

CODE - HBB010

CODE - HBB011

1| Models with monocular head (Model M-HB10) or binocular (Model B-HB11) are available. The head is inclined 30º and can be rotated 360º. The binocular model has interpupillary distance regulation and diopter adjustment in one of the eyepieces.
2| The eyepieces are fitted with fixing screws to prevent removal of the eyepiece tubes.
3| Inverted quadruple nosepiece with the lenses tilted in the opposite direction to the user for more comfortable handling of the preparations.
4| Double-bed mechanical stage with coaxial travel controls; the microscope has a screw to fix the maximum height of the plate and prevent it from hitting or damaging the objectives.
5| Built-in rechargeable batteries for working with the equipment without connection to the mains. Not included.

Code	HBB010	HBB011
Model	M-HB10	B-HB11
Head	Monocular	Binocular
	Siedentopf type; inclined 30º and rotary 360º Adjustable interpupillary distance (55-75mm)	
Eyepieces	WF10x/18 mm (ø 23 mm)	
Nosepiece	Quadruple upside down	
Objetives	Achromatic objectives: 4X, 10X, 40X (R), 100X (R) (I)	
Stage	Double bed mechanical stage, size 115x 125 mm, movement 75x50mm	
Condenser	NA 1.25 Abbe type with iris diaphragm and filter	
Focus	Micro and macrometric controls. Focusing scale 0.02mm	
Illumination	LED 3W/4V, adjustable intensity	
Power	100-240V; 50-60Hz Rechargeable batteries 3x NiMH AA1400mAH 1.2V*	

** not included*

HBB - Education

Model 300

1| Can be used with rechargeable batteries (not included).

Code	HBB014
Model	300
Head	Monocular, inclined at 45°, 360° rotatable
Eyepieces	WF10x/18 mm (Ø 18 mm)
Diopter adjustment	No
Revolving nosepiece	Quadruple
Objectives	Achromatic finite 4X 10X 40Xs
Stage	Single-layer 120x125mm
Condenser	Abbe NA 0.65 with diaphragm
Illumination	LED 1W

Serie 300

1| Focusing: Coaxial adjustment of coarse and fine focusing via gears.
2| Can be used with rechargeable batteries (not included).

Code	HBB015	HBB016	HBB017
Model	300M	300B	300T
Head	Monocular inclined 45° rotatable 360°	Binocular inclined 30° rotatable 360°	Trinocular inclined 38° rotatable 360°
Eyepieces	WF10x (Ø 18 mm)		
Revolving nosepiece	Quadruple		
Objectives	Achromatic finite 4X 10X 40Xs		
Stage	Single-layer 120x125 mm		
Condenser	Abbe N.A. 1.25 with diaphragm and filter		
Illumination	LED 1W		

Code HBB015

Code HBB017

Serie 400

1| These models are intended for clinical examinations, laboratory teaching, and research in biology, bacteriology, pathology, and pharmacy.
2| Available with a monocular, binocular, or trinocular head and a 360-degree rotating head.
3| Mechanical stage with two layers allowing for two preparations.

Code	HBB021	HBB022	HBB023
Model	400M	400B	400T
Head	Monocular inclined 45° rotatable 360°	Binocular inclined 30° rotatable 360°	Trinocular inclined 30° rotatable 360°
Eyepieces	WF10x (Ø 20 mm)		
Revolving nosepiece	Quadruple		
Objectives	Semi-plan achromatic: 4X, 10X, 40Xs, 100Xs (oil)		
Stage	Double mechanical stage, 130x130 mm		
Condenser	Abbe N.A. 1.25 with diaphragm and filter		
Focusing	Coarse and fine coaxial adjustment with rack and pinion mechanism		
Illumination	LED 1W		

Code HBB021

Code HBB023

HBB - Education

Microscope polarisant, Séries 400

1| These transmission polarizing microscope models are designed for routine inspections and teaching. They are useful in fields such as crystal analysis, chemistry, medicine, biosciences, environmental sciences, pharmacology, and toxicology.
2| Available with a monocular or binocular head, and a 360° rotatable head.
3| Equipped with polarizing accessories, including a circular stage, a polarizer, and an analyzer.

Rèfèrence	HBB024	HBB025
Modèle	400M-P	400D-P
Tête	Monocular 45° inclined 360° rotatable	Binoculaire inclinée 30° pivotant à 360°
Oculaires	WF10x (Ø 20 mm)	
Revolver	Quadruple	
Objectifs	S-plan achromatic objectives: 4X, 10X, 40Xs, 100Xs (oil)	
Platine	Rounded graduated stage Ø 135 mm	
Condenser	Abbe NA 1.25 with diaphragm	
Focus	Coaxial coarse and fine adjustment with rack and pinion mechanism	
Illumintaion	LED 1W	

HBC - Professional

Series 'P'

CODE - HBC015

CODE - HBC016

1| Available with binocular head (model B-HC15) and trinocular (model T-HC16) type Siedentopf, inclined 30° and rotatable 360°. They have a diopter correction mechanism in both eyepieces and interpupillary distance regulation.
2| Inverted quadruple nosepiece with the lenses inclined in the opposite direction to the user to make the manipulation of the preparations more comfortable.
3| Double bed mechanical stage with coaxial translation controls and a sample clamp which can hold 2 slides simultaneously. The microscope has a screw to fix the maximum height of the slide and prevent it from hitting or damaging the objectives.
4| Ergonomically positioned macro and micro coaxial focusing controls; equipped with tension adjustment ring
5| Built-in rechargeable batteries for working with the equipment without connection to the mains.

Code	HBC015	HBC016
Model	B-HC15	T-HC16
Head	Binocular	Triocular
	Siedentopf type; inclined 30° and rotary 360° Adjustable interpupillary distance (55-75 mm)	
Eyepieces	WF10x/18 mm (ø 23 mm)	
Nosepiece	Quadruple upside down	
Objetives	Objectives achromatic and antifungals 4X, 10X, 40X (R), 100X (R) (I).	
Stage	Double bed mechanical stage,size 132x 142 mm movement 75x50mm	
Condenser	NA 1.25 Abbe type with iris diaphragm and filter	
Focus	Micro and macrometric controls. Focusing scale 0.002 mm	
Illumination	LED 3W/4V, adjustable intensity	
Power	100-240V; 50-60Hz Rechargeable batteries 3x NiMH AA1400mAH 1.2 V	

** diopter adjustment in both eyepieces*

HBC - Professional

Series 107

1| Professional biological microscopes, handy and robust.
2| Head inclined 45º and rotary 360º with interpupillary distance adjustment and diopter correction.
3| Macro and micro coaxial controls with friction control ring and upper limit of focus.
4| Double-bedded mechanical stage with clamp to accommodate two slides.

Code	HBC002
Head	Binocular
Eyepieces	WF10x/18 mm (Ø23 mm) + WF16x/11mm (Ø23 mm)
Interpupillary dist.	-53-72 mm
Diopter correction	±2 diopters (both eyepieces)
Nosepiece	Quadruple
Objetives	Achromatic and antifungals 4x (NA:0.10); 10x (NA:0.25) 40x (R) (NA:0.65); 100x (R)(I)(NA:1.25)
Stage	130 x 140 mm double bed mechanics
Condenser	Abbe (AN: 1.25)
Diaphragm	Iris
Filters	Blue and Green (Ø 32 mm)
Lamp	LED
Power	100-240V, 50/60 Hz

Series 505

1| The biological microscopes Zuzi Serie 505 are an excellent election for whatever professional application field: Clinical or research laboratories, hospital, university, industry.
2| The Serie 505 microscopes built-in an excellent plan achromatic infinity optical system offering a perfect imagen with high re-solution and definition. Their robust and stable design made it ergonomic and the use is very comfortable.
3| We have available a whole range of accessories to multiple applications: Phase contrast, dark field, polarizing.

Code	HBC021	HBC022
Model	505	505T
Head	Binocular	Trinocular
	Rotable 360°; Inclined 30°	
Eyepieces	WF10x/20 mm (ø 23mm)	
Dioptric correction	± 5 in both eyepieces	
Interpupillary distance	48 – 75 mm	
Nosepiece	Quintuple inverted	
Objectives	Plan achromatic, infinity corrected 4x / 0.10 4x (AN:0.10); 10x (AN:0.25); 20x (AN: 0,40) 40x (R) (AN:0.65); 100x (R)(I)(AN:1.25)	
Stage	Double bed graduated, 175x145 mm Movement 78x55 mm	
Condenser	Abbe N.A. 1.25; Diafragma Iris	
Illumination	Koehler; 3W LED	
Filters	Blue (32 mm)	
Power	100-240 VAC /50-60 Hz	
Dimensions (WxDx H)	220x 370x480 mm	
Weight	8.6 Kg	

Code - HBC022

HBC - Professional

Plane achromatic microscope, P series

Code - HBC023

Code - HBC024

1| Quadruple inverted nosepiece to make changing the sample easier and more comfortable.
2| Double layer mechanical stage with coaxial translation knobs and a clamp to hold up to 2 slides at the same time; the microscope is equipped with a safety screw to fix the maximum upper position of the stage and avoid it to hit and damage the objectives.
3| Coarse and fine focusing coaxial knobs at an ergonomic position and equipped with tension adjustment ring.
4| Rechargeable batteries NOT INCLUDED, allowing the equipment to be used without being connected to the power grid.

Code	HBC023	HBC024
Model	Serie P	Serie P
Head	Binocular	Trinocular
	Siedentopf-type; 30º inclined and 360º rotary	
Eyepieces	WF10x/18 mm	
Dioptric correction	(± 5 dioptres) in both eyepiece holders	
Interpupillary distance	55-75 mm	
Nosepiece	Quadruple inverted and rotatable in both directions	
Objectives	Plane achromatic and antifungal 4x; 10x; 40 (R);100x (R) (I)	
Focus	Macrometric and micrometric with coaxial knobs	
Stage	132x142 mm Transverse movement 75 mm and longitudinal movement 50 mm	
Condenser	Abbe (A.N. 1.25) with diaphragm and portafilters	
Illumination	LED with intensity potentiometer	
Power	100/240V AC 50/60 Hz	
Batery	Rechargeable	

HBD - Digital

Series 148

1| Siedentopf binocular head inclined 30º and rotary 360º.
2| Double bed mechanical stage with translation controls in lowered position.
3| Macro and micro coaxial controls with friction control ring and enfique upper limit lock. Köhler type lighting system.
4| Image processing software included.

Code	HBD003
Model	148/7
Head	Binocular
Interpupillary dist.	55 - 75 mm
Diopter correction	Left eyepiece
Eyepieces	WF10x/22 mm (Ø30 mm)
Nosepiece	Inverted quadruple
Objetives	Plane achromatics corrected to the infinite 4x (NA:0,10) - 10x (NA:0,25) 40x (R) (NA:0,65) - 100x (R) (I) (NA:1,25)
Stage	180 x 150 mm Double bed mechanics
Focus	Macro/micro coaxial focusing
Condenser	Abbe (AN: 1,25)
Diaphragm	Graduated field and opening (Köhler type)
Filters	Blue, Green and yellow (Ø 32 mm)
Lamp	LED diode 1W (Regulable)
Power	100-240V, 50/60Hz
Camera	3,0 Mp, 2048 x 1536 resolution
Output	USB 2.0

HBD - Digital

Model 135/8

1| This model is the most basic equipment within Zuzi digital microscopes, being specially indicated for secondary schools and for those applications of initiation to the study of biology.
2| Monocular head inclined 45º, making it easier to use by students who are just starting out in microscopy.
3| Macro and micro coaxial focus controls for easier and more comfortable operation.
4| Height-adjustable Abbe condenser with iris diaphragm and filter holder.

Code	HBD004
Model	135/8
Head	Digital, Monocular, 45º 360º
Camera resolution	1280 x 1024 (1.3MPixel)
Software	ScopeImage 9.0
Operative system	Windows 2000 / XP / Vista / 10
Output	USB 2.0
Range of field of view	75%
Eyepieces	WF10/18mm (ø 23 mm)
Objetives	Achromatics 4x (0.10), 10x (0.25), 40x R (0.65), 100x Oil-R (1.25)
Focus control	Macro/micro coaxial focusing
Mechanical stage	125mm x 115mm (70mm x 20 mm)
Condenser	Abbe type 1.25 AN, with iris diaphragm and filter holder 32 mm
Filter	Green and white
Illumination	Lamp LED 1W, dimmable
Power	100-240v 50/60hz

Model 135/9

1| This is a model with slightly higher characteristics than the previous one, with a binocular head for applications that require longer observations, an inverted revolver that allows a more comfortable handling of the samples and with a larger mechanical platen surface to have a greater range of movement to explore the samples.
2| 30º inclined binocular head.
3| Macro and micro coaxial focusing controls for easier and more comfortable operation.
4| Height adjustable Abbe condenser with iris diaphragm and filter holder.

Code	HBD005
Model	135/9
Head	Digital, binocular; 30º; 360º
Camera resolution	1280 x 1024 (1.3MPixel)
Software	ScopeImage 9.0
Operative system	Windows 2000 / XP / Vista
Output	USB 2.0
Range of field of view	90%
Interpupillary Distance	48-75 mm
Eyepieces	WF 10/18mm (ø23 mm)
Eyepiece dioptric correction	Left eyepiece, ±5dpt
Objetives	Achromatics 4x (0.10), 10x (0.25), 40x R (0.65), 100x Oil-R (1.25)
Focus control	Macro/micro coaxial focusing
Mechanical stage	132mm x 142mm (74mm x 40mm)
Condenser	Abbe type 1.25 AN, with iris diaphragm and filter holder 32 mm
Filter	Green
Illumination	Lamp LED 1W, dimmable
Power	100-240v 50/60hz

HBD - Digital

Digital Microscope, series 300 NS

1| Equipment specially designed for high schools and universities, for the teaching of biology, bacteriology, histology, pathology, etc.
2| Finite optical system.
3| Both models are equipped with a digital monocular head.
4| Coaxial macro and micro focusing controls.
5| Double-layer mechanical stage.
6| Abbe condenser with diaphragm and filter.
7| They can be used with rechargeable batteries (not included).

Code	HBD010	HBD011
Model	300NS-130	300NS-500
Head	Digital monocular, inclined at 38°, rotatable at 360°	
Camera	Integrated CMOS camera, resolution 1280 x 1024 (1.3 MPixel) Integrated CMOS camera, resolution 2560 x 1920 (5.0 MPixel)	
Eyepiece	WF10X/18mm	
Revolving nosepiece	Four objectives	
Objectives	Achromatic 4X, 10X, 40Xs, 100Xs (oil)	
Stage	Double-layer mechanical stage Size: 110x125 mm	
Condenser	Abbe N.A. 1.25 with diaphragm and filter	
Focusing	Coaxial coarse and fine focusing adjustment	
Illumination	1W LED lamp, with intensity adjustment	

Digital Microscope, Model 400 NS

1| These models are ideal for clinical examinations, laboratory teaching, and research in biology, bacteriology, pathology, and pharmacology.
2| Available with a monocular or binocular head, and a 360° rotating head.
3| Double-layer mechanical stage allowing for two preparations.
4| With integrated camera of 1.3 MP or 5.0 MP.

Code	HBD007	HBD008
Model	400NS-130	400NS-500
Head	Monocular, inclined at 45° rotatable at 360	Binocular, inclined at 30° rotatable at 360
Camera	Integrated CMOS 1280x1024 (1,3MP)	Integrated CMOS 2560x1920 (5,0 MP)
Eyepiece	WF10X (20 mm)	
Revolving nosepiece	Quadruple	
Objectives	Semi-plan achromatic: 4X, 10X, 40Xs, 100Xs (oil)	
Stage	Double-layer mechanical stage, 125x110 mm	
Condenser	Abbe N.A. 1.25 with diaphragm and filter	
Focusing	Coaxial coarse and fine adjustment with rack and pinion mechanism	
Illumination	LED 1W	

HBD - Digital

Microscope with 7-inch Display, model 400SP

1| Model with integrated 7-inch screen and color CMOS image sensor.
2| Double-layer mechanical stage to accommodate two preparations.

Code	HBD006
Model	400SP
Head	With 7" screen, 360° rotatable
Camera	Integrated CMOS camera 1280x1024 (1.3 MP)
Eyepiece	WF10X (20 mm)
Revolving nosepiece	Quadruple
Objectives	Semi-plan achromatic: 4X, 10X, 40Xs
Stage	Double-layer mechanical stage, 130x130 mm
Condenser	Abbe N.A. 1.25 with diaphragm and filter
Focusing	Coaxial coarse and fine adjustment with rack and pinion mechanism
Illumination	LED 1W

Microscope with 7-inch Display, Model 300SP

1| Equipment specially designed for high schools and universities, for the teaching of biology, bacteriology, histology, pathology, etc.
2| Finite optical system.
3| 7-inch color screen, 360° rotatable.
4| Coaxial macro and micro focusing controls.
5| Double-layer mechanical stage.
6| Abbe condenser with diaphragm and filter.
7| Can be used with rechargeable batteries (not included).

Code	HBD012
Model	300SP
Screen	7" IPS color screen with an integrated CMOS camera for capturing microscope images and recording video
Revolving nosepiece	Four objectives
Objectives	Achromatic 4X, 10X, 40Xs
Stage	Double-layer mechanical stage Size: 110x125mm
Condenser	Abbe N.A. 1.25 with diaphragm and filter
Illumination	1W LED lamp with intensity adjustment

HBF - Fluorescence

Epi-fluorescence microscope

1| Wide and solid base for good stability.
2| 45º inclined head with interpupillary distance adjustment and diopter correction.
3| Nosepiece sixfold with 4 flat achromatic lenses corrected to the infinite specially designed for fluorescence.
4| Turret with different interchangeable positions to select the appropriate excitation and emission filters.
5| Köhler system for transmitted light with field and aperture diaphragms and Abbe condenser with sliding top lens.
6| Mercury lamp for fluorescence by reflected light with power supply with hours-of-use timer.

Code	HBF001
Model	158/358
Head	Triocular; 360º
Eyepieces	WF 10X/20 (ø30 mm)
Interpupillary dist.	50-75 mm with diopter correction
Nosepiece	Sixfold
Objetives	Plane apo-achromatic corrected to the infinite 4x, ∞ (A.N.: 0,15) - 10x, ∞ (A.N.: 0,35) 40x, ∞ (R) (A.N.: 0,75) - 100x, ∞ (R) (A.N.: 0,90)
Stage	180x160 mm. Double bed mechanics (80x50 mm)
Illumination	Köhler type, field diaphragm and graduated opening
Condenser	Abbe (AN: 1,25) deslizable
Lamp	
Epi-fluorescence	High pressure mercury lamp 20V, 100W
Transmitted	Halogen lamp 12V, 50W (adjustable)
Power	100-240V, 50/60Hz

Epi-fluorescence microscope LED

1| It has 5W LED lights, with power regulator, and blue and green filters.
2| Trinocular head inclined 30º rotatable 360º with interpupillary distance adjustment (48-75 mm).
3| Nosepiece sixfold with 4 flat achromatic lenses corrected to the infinite sepcialmete designed for fluorescence.
4| Turret with different interchangeable positions to select the excitation and emission filter cube of the most suitable wavelength for the fluorochrome used (filters included blue and green).
5| Köhler system for transmitted light with field diaphragms and aperture and Abbe condenser with sliding top lens.

Code	HBF002
Head	Triocular type Sidentopf. Inclined 30º and rotary 360º.
Eyepieces	WF 10X /20 mm
Nosepiece	Inverted quintuple
Objetives	Plane achromatics corrected to the infinite
	4×,∞ (0.10) - 10×,∞ (0.25) - 20×, ∞ (0.40) 40×(S), ∞ (0.66(S)) - 100×, 1.25(Oil) (S)
Stage	180 x 145 mm double-bedded Movement 90 x 60 mm
Condenser	Abbe N.A. 1.25 with diaphragm
Illumination	Lamp LED 3W
Filter	Blue
Epi-fluorescence	LED Lamps blue and green 5W

HBH - Metallurgical

Metallurgical microscope, 146 M

1| Siedentopf type triocular head.
2| Nosepiece quadruple with flat achromatic lens corrected to the infinite.
3| Lighting system by reflected light and transmitted light.

Code	HBH005
Head	Triocular Type Siedentopf, inclined 30° and rotary 360°
Eyepieces	2 pcs WF10x/22 mm (Ø23 mm)
	1 pc WF10x/20 mm with a grid of 0,1 mm
Interpupillary dist.	55-75 mm
Diopter correction	±5 diopters in the left eyepiece
Nosepiece	Quadruple
Objetives	Plane achromatics Corrected to the infinite
	4x, ∞ (A.N.: 0,10) - 10x, ∞ (A.N.: 0,25)
	20x, ∞ (A.N.: 0,40) - 40x, ∞ (R) (A.N.: 0,65)
Stage	160 x 180 Double bed
Reflected illumination	
Lamp	Halogen 12 V, 30 W
Diaphragms	Field (centrable) and opening
Filter holder	Rotary; green, blue, yellow and polarizing filters
Polarization system	Filter holder poralizer and slider analyzer of the optical and rotary line 360
Trasmitted illumination	
Lamp	Halogen 12 V, 30 W
Diaphragms	Field in pre-condenser and opening (graduated)
Condenser	Abbe (A.N. 1.25); height-adjustable
Filter holder	Mobile; green, blue and yellow filters
Power	85-220V, 50/60 Hz

HBJ - Inverted biological

Series 180

1| Inclined head with interpupillary distance regulation and diopter correction.
2| Nosepiece with long-distance flat achromatic lenses; one of the lenses is phase contrast
3| Long distance condenser, centrable and adjustable with iris diaphragms and filter holder.
4| Large rectangular stage.

Code	HBJ001
Head	Triocular, 30°
Eyepieces	WF10x/18mm (Ø23mm)
Interpupillary dist.	55-75mm
Diopter correction	±5 diopters (left eye)
Nosepiece	Quadruple
Objetives	Plane achromatics of long distance
	10x (A.N.: 0,25) Phase contrast
	10x (A.N.: 0,25); 25x (A.N.: 0,40); 40x (R) (A.N.: 0,65)
Stage	200 x 150 mm; Movement 70x30 mm
Condenser	Long distance with centring and contrast ring adjustment
Diaphragm	Field
Filter	Blue, yellow, green and neutral
Lamp	Halogen (6V, 20W) adjustable intensity
Power	220V/50 Hz

HBL - Accessories, condensers

Code	Descripción
Condenser accessories	
HBL001	Bright Field condenser with Iris Diaphragm For microscopes series 100 and 137 - Numerical aperture: 1.25
HBL002	Dry dark field condenser, series 122 For microscopes series 122 - Numerical aperture: 0.9 - Type dry
HBL003	Immersion dark field condenser, series 122 For microscopes series 122 - Numerical aperture: 1.25 - Type immersion
HBL005	Dark Field Condenser Oil, series 100 For microscopes series 100 - The images are displayed on a black background and highlighted by a border effect. 100x immersion objectives are used.
HBL006	Dry dark field condenser, series 505
HBL007	Inmersion dark field condenser, Series 505

HBP - Accessories, objectives

Code	Description
Achromatic objectives	
HBP001	Achromatic objectives 4X Numerical aperture (A.N.) 0.10
HBP002	Achromatic objectives 10X Numerical aperture (A.N.) 0.25
HBP003	Achromatic objectives 20X Numerical aperture (A.N.) 0.40
HBP004	Achromatic objectives 40x (R) Numerical aperture (A.N.) 0.65
HBP005	Achromatic objectives 60x (R) Numerical aperture (A.N.) 0.85
HBP006	Achromatic objectives 100x (R) (I) Numerical aperture (A.N.) 1.25
Plan achromatic objectives	
HBP007	Plan achromatic objectives 4x Numerical aperture (A.N.) 0.10
HBP008	Plan achromatic objectives 10x Numerical aperture (A.N.) 0.25
HBP009	Plan achromatic objectives 20x Numerical aperture (A.N.) 0.40
HBP010	Plan achromatic objectives 40x (R) Numerical aperture (A.N.) 0.65
HBP011	Plan achromatic objectives 100x (R) (I) Numerical aperture (A.N.) 1.25
HBP031	Objective plan achromatic corrected to infinite 4x
HBP032	Objective plan achromatic corrected to infinite 10x
HBP033	Objective plan achromatic corrected to infinite 20x
HBP034	Objective plan achromatic corrected to infinite 40x
HBP035	Objective plan achromatic corrected to infinite 60x
HBP036	Objective plan achromatic corrected to infinite 100x
Plan achromatic objectives	
HBP012	Semi-plan achromatic objectives 4X
HBP013	Semi-plan achromatic objectives 10X
HBP014	Semi-plan achromatic objectives.40x/R
HBP015	Semi-plan achromatic objectives. 100X R/I
Operational microcopes objectives	
HBP026	Objective F250, series 191
HBP027	Objective F400, series 191

HBQ - Accessories, eyepieces

Code	Description
HBQ001	Wide field eyepiece WF10x/18 mm. Diameter 23 mm
HBQ002	Wide field eyepiece WF16x/11 mm. Diameter 23 mm
HBQ003	Wide field eyepiece point WF10x. Diameter 23 mm
HBQ004	Wide Field eyepiece with micrometer WF 10x/18 mm. Diameter 23 mm
HBQ005	Photographic eyepiece 4x. Diameter 23 mm
HBQ006	Extra wide field eyepiece WF10x/21 mm. Diameter 23 mm
HBQ007	High point eyepiece WF10x/18,5 mm. Diameter 23 mm
HBQ008	Eyepiece WF10x /22 mm. Diameter 30mm
HBQ009	Eyepiece WF16x. Diameter 30 mm
HBQ010	Micrometric eyepiece WF10x/22 mm. Diameter 30 mm
HBQ011	Huygens eyepiece 10x. Diameter of 23 mm
HBQ012	Huygens eyepiece 5x. Diameter of 23 mm
HBQ013	Plain eyepiece 10x. Diameter of 23 mm
HBQ014	Eyepiece WF15x. Diameter of 23 mm
HBQ015	Wide filed eyepiece WF10x/20mm. Diameter 23 mm
HBQ017	Wide filed eyepiece WF20x/11mm. Diameter 23 mm

HBR - Accessories, others

Code	Description
Stages	
HBR010	Heating Stage Serie of RT at -50ºC for models 100/122
HBR014	Mechanical stage for models 119/116/128
Video-photography	
HBR006	Photographic attachment T mount
Condenser, diaphragm, lighting	
HBR004	Diaphragm iris for series 100
HBR005	Halogen Lamp 6V, 20W
HBR009	Filter for condenser, blue (Ø 32 mm)
HBR015	Epi-fluorescence lamp
HBR025	Halogen Lamp 12V 20W
For operating microscopes	
HBR022	Wall stand for microscope for model 191
HBR023	Table stand for microscope for model 191
Others	
HBR001	Microscope cover, Dimesions 300x307x400
HBR002	Lens tissues 110x85 mm, b/50
HBR003	Microscope cleaning kit
HBR011	Plastic dust cover for professional microscopes
HBR013	AC/DC adapter 230V/5.5V 200mA for model 116

HDB - Education

Series 200

1| For teaching in the observation of minerals or small animals.
2| Binocular head with interpupillary distance regulation and diopter correction.
3| Bilateral controls for focusing through a rack and pinion mechanism.
4| Black/white contrast stage and frosted glass stage.

Code	HDB002
Head	Binocular, inclined 45º
Eyepieces	WF10x/20mm (ø 30.5 mm)
Interpupillary dist.	55-75mm
Diopter correction	± 5 mm diopters
Objetives	2x/4x
Working distance	60 mm
Stage	B/W and frosted glass with clamps (95 mm)
Ilumination	Incident and transmitted
Power	220V, 50/60 Hz

Series 250

1| Compact stereo microscope with carrying handle
2| Binocular head with diopter correction
3| Incident and transmitted LED light adjustable in 5 intensities

Code	HDB005
Head	Inclined binocular 45º
Eyepieces	WF10x/20 (ø 30.5 mm)
Interpupillary dist.	54-76 mm
Diopter correction	± 5 mm diopters (left eye)
Objetives	2x y 4x
Working distance	76 mm
Stage	60 mm
Ilumination	Incident and transmitted adjustable, LED
Power	100V-240V/4.5V

** Code available until end of stock*

HDD - With zoom

'Z' Series

CODE - HDD012

CODE - HDD011

1| Stereo microscope with 0.7x to 4.5x zoom
2| Wide field eyepieces with diopter adjustment in both eyepieces
3| Fine but wide base with great stability. Double working distance. Rubber blinkers and eye caps

Code	HDD011	HDD012
Head	Binocular 45º; 360º	Triocular 45º; 360º
Eyepieces	WF10x/20 mm (ø 30 mm)	
Diopter correction	± 5 dps in the 2 eyepieces	
Interpupillary Distance	55-75 mm	
Objective	1x	
Zoom	0.7x-4.5x	
Working distance	35 y 100 mm	
Stage	Translucent and Black/White	
Plate size	60 mm, with clamps	
Ilumination	Incident and transmitted. LED 3W	

Chart of magnification series Z

Zoom	Objetives	Eyepiece WF10X		Eyepiece WF15X		Eyepiece WF20x	
		Magnification	Ø field (mm)	Magnification	Ø field (mm)	Magnification	Ø field (mm)
	0.5x	3.25x-22.5x	57.1-8.9 mm	4.8x-33.75x	42.8-6.7 mm	6.5x-45x	28.6-4.4 mm
	1.0x	6.5x-45x	28.6-4.4 mm	9.75x-67.5x	21.1-3.3 mm	13x-90x	14.3-2.2 mm
	1.5x	9.75x-67.5x	19-3 mm	14.62x-101.25x	14.3-2.2 mm	19.5x-135x	9.5-1.5 mm
	2.0x	13x-90x	14.3-2.2 mm	19.5x-135x	10.7-1.7 mm	26x-180x	7.1-1.1 mm

HDG - Accessories, objectives

Code	Description
HDG016	Objective 0,5x series Z
HDG017	Objective 1,5X series Z
HDG018	Objective 2X series Z

HDH - Accessories, eyepieces

Code	Description
HDH001	Eyepiece 5x for series 200/234
HDH002	Eyepiece 10x for series 200/234
HDH003	Eyepiece 15x for series 200/234
HDH004	Eyepiece 20x for series 200/234
HDH005	Eyepiece micrometer 10x for series 200/234
HDH010	Eyepiece foto 2.5x for series 230/240/Z

HDK - Accessories, others

Code	Description
Ilumination	
HDK002	21V 150W lamp for cold light source
HDK003	Halogen lamp 12V 10W for series 200/234
HDK020	Dicroic halogen lamp 12V 100W
HDK025	Fluorescent ring lamp
Others	
HDK005	White/Black Contrast stage plate for series 200/234, 95 mm
HDK006	Pair of blinkers for stereomicroscope
HDK007	Ground glass stage plate (95mm) for series 200/234
HDK009	Ground glass stage plate (60 mm) for model 220

HDK - Accessories, others

Cold light source

1| For microscopic examinations, illumination of specific regions, or examinations of light-sensitive samples.
2| High-power lamp with no color change or heat emission.
3| Double flexible arm, 50 cm in length, with a continuous intensity adjustment mechanism.
4| Includes two Köhler condensers and devices for placing color filters.
5| LED illumination.

Code	HDK001
Spectral range	450-700 nm
Halogen lamp	21 V / 150 W
Dimensions	208x105x124 mm
Weight	1 kg
Power	CA 220 V, 50-60 Hz

** Optional 110V on request; code V*

HGB - Eyepiece

Videocameras

Code	HGB004	HGB005
Sensor	1/2.2"CMOS	1/2.5"CMOS
Max. resolution	2592x1944 (5 MP)3264x2448 (8 MP)	
Speed at max resolution	<7 FPS	<1 FPS
Sensibility (v/lux-s a 550 nm)	1.2	1.3
Dynamic range	67 dB	75 dB
Wavelength	400-600 nm (with IR-cut filter)	
Eyepiece diameter	23 mm (adapters of 30 and 30.5 included)	
Dimensions	Cylindrical-shaped metal body, 50 mm diameter	
Auto exposure	Automatic/Manual	
Output	USB 2.0	

HGG - Accesories for tablets

Adapters

1| Microscope and stereo adapters.
2| HGG001* included with HGF001 and HGF002 tablets.

Code - HGG001

Code - HGG002

Code - HGG003

Code	**Adaptor for**
HGG001	23 mm
HGG002	30 mm
HGG003	30.5 mm

Calibration slides

1| Graduated slide for the calibration of digital cameras/tablets

Code	**Scales**
HGG004	Scales 1 mm / 100 Divisions 0.01mm
	Scales 1 mm / 100 Divisions 0.1 mm

HJB - Visible

Series 4100

CODE - HJB001

CODE - HJB002

1| Manual wavelength selector and digital display.
3| Absorbance and transmittance measurements in visible range.
4| Model 4111RS allows calculation of concentrations by taking a sample of known concentration as a reference or by entering the value of the factor F (Abs= F × conc). Application software based on Windows operating system is available.
5| Includes two glass cuvettes and a black cell for autozeroing.

Code	HJB001	HJB002
Model	4101	4111RS
Wavelength range	330 – 1000nm	
Optic system	Single beam, 1200 line/mm grid	
Bandwidth	6 nm	
Wavelength accuracy	±2 nm	
Wavelength resolution	±1 nm	
Photometric range	0-100%T; 0-1,999A; 0-1999 C; 0-1999 F	
Detector	Silicon photodiode	
Sample compartment	For 2 cuvettes of 10 mm	
Output	----	RS232
Power supply	110V 60Hz / 220V 50Hz by means of a manual changer	

Series 4201/20

1| Manual wavelength selector. White and auto zero easy to perform.
2| Absorbance, transmittance and concentration readings (factor method).
3| Includes EasyUV Basic Software to work via PC.
4| User assistance, indicating the steps to follow, ideal for education
5| Auto-calibration at startup.
6| 3.2" TFT color screen

Code	HJB003
Wavelength range	325-1050 nm
Optic system	Single beam, 1200 line/mm grid
Bandwidth	4 nm
Wavelength accuracy	±1nm
Wavelength resolution	±0.5 nm
Photometric range	-0,3-3 A; 0-200% T; 0-9999.9 C
Detector	Silicon photodiode
Sample compartment	For 4 cuvettes de 10 mm
Output	USB and parallel port (printer)
Light source	Tungsten
Power supply	100-240VAC; 50/60Hz (manual changer)

Series 4211/20

1| Memory for storing up to 200 absorbance and transmittance data
It also allows to save and retrieve up to 200 standard curves.
2| MWave basic software included. Compatible with MWave professional software that increases the functions of the equipment through the computer.
3| Photometric analysis (absorbance and transmittance) and quantitative mode (method of coefficient and standard curve).

Code	HJB004
Wavelength range	325-1000 nm
Optic system	Single beam, 1200 line/mm grid
Bandwidth	4nm
Wavelength accuracy	±2 nm
Wavelength resolution	±0,1 nm
Photometric range	-0,3-3 A | 0 - 200% T
Lamps	Tungsten
Detector	Silicon photodiode
Sample compartment	4 standard cuvettes with 10 mm light path
Output	USB and parallel port
Power supply	110 V 60 Hz / 220 V 50 HZ (manual changer)

HJB - Visible

Serie 4310/3

1| The 1200 l/mm holographic grating with low stray light and the optimized optical design ensure greater accuracy.
2| Increased strength and durability thanks to the cast aluminum base and molded plastic housing.
3| Improved precision and repeatability of the wavelength and noise reduction due to the new (patented) wavelength control mechanism.
4| The high-resolution TFT color LCD touch screen provides excellent display effect and simple operation.
5| Auto-calibration and preheating countdown on startup.
6| File management function. Automatic wavelength adjustment.
7| Can be connected to a printer for direct output of measurement results.

Code	HJB007
Wavelength range	315 – 1100 nm
Wavelength accuracy	±0.5 nm
Spectral bandwidth	4 nm
Photometric range	-0.3~3 A / 0~200 %T / 0~9999.9 C
Optical system	Simple beam 1200 line / mm
Functions	Photometry, Quantitative and scan
Screen	Colour touch screen (110x62 mm)
Sample compartment	10 mm manual 4-position cell holde
Lamps	Tugsteno
Output	1 printer port, 1 PC USB port, 1 USB output
Software	EasyUV Basic
Detector	Silicon photodiode
Power supply	AC 100-240 V; 50/60Hz
Dimensions (LxWxA)	450x370x187mm
Weight	10,5 Kg

Spectrophotometer 4265/50

1| Equipment specially developed for water analysis using Chemetrics brand instrumental kits.
2| The 1200 l/mm holographic grating with low stray light and the optimized optical design ensure greater accuracy.
3| Increased strength and durability thanks to the cast aluminum base and molded plastic housing.
4| Improved precision and repeatability of the wavelength and noise reduction due to the new (patented) wavelength control mechanism.
5| The high-resolution TFT color LCD touch screen provides excellent display effect and simple operation.
6| Auto-calibration and preheating countdown on startup. File management function. Automatic wavelength adjustment.
7| Can be connected to a printer for direct output of measurement results.

Code	HJB008
Wavelength range	315 – 1100 nm
Wavelength accuracy	±0.5 nm
Spectral bandwidth	2 nm
Photometric range	-0.3~3 A / 0~200 %T / 0~9999.9 C
Optical system	Simple beam 1200 line / mm
Functions	Photometry, quantitation, spectrum, user program 44 methods programmed to work with the CHEMetrics instrumental kits
Screen	5 - inch TFT color touch screen (110x62 mm)
Sample compartment	Two-position sample holder 1 tube 13 to 16mm Cuvettes 10 to 50mm
Lamps	Tugsteno
Output	port × 1 (printer), port x 1 USB (PC), port x 1 USB
Software	EasyUV Basic
Detector	Silicon photodiode
Power supply	AC 100-240 V; 50/60Hz
Dimensions (LxWxA)	450x370x187mm
Weight	10,5 Kg

HJD - UV - Visible

Model 4201/50

1| White and auto zero easy to perform.
2| Absorbance, transmittance and concentration readings (factor method)
3| You can display and store 50 groups of data, 3 per display.
4| Includes MWave Basic Software for working via PC.

Code	HJD001
Wavelength adjustment	Digital
Wavelength range	200-1000nm
Bandwidth	4nm
Optic system	Single beam, 1200 line/mm grid
Wavelength accuracy	±2nm
Wavelength resolution	±0.1nm
Photometric range	-0,3-3 A; 0-200% T
Detector	Silicon photodiode
Sample compartment	For 4 cuvettes of 10 mm
Output	USB and parallel port (printer)
Power	110 V 60 Hz / 220 V 50 HZ (manual switch)
Light source	Tungsten and deuterium

Model 4211/50

1| Memory for storing up to 200 absorbance and transmittance data It also allows to save and retrieve up to 200 standard curves.
2| Photometric (absorbance and transmittance) and quantitative analysis (coefficient and standard curve method)
3| MWave basic software included. Compatible with MWave professional software that supports the functions of the device through the computer.

Code	HJD002
Wavelength range	200-1000 nm
Optic system	Single beam, 1200 line/mm grid
Bandwidth	4nm
Wavelength accuracy	±2 nm
Wavelength resolution	±0.1 nm
Wavelength reproducibility	0,8 nm
Photometric range	-0,3-3 A; 0-200% T
Lamps	Tungsten and deuterium
Detector	Silicon photodiode
Sample compartment	4 standard cuvettes with 10 mm light path
Output	USB and parallel port
Power	110 V 60 Hz / 220 V 50 Hz (manual switch)

Model 4251/50

1| Memory for storing up to 200 absorbance and transmittance data It also allows to save and retrieve up to 200 standard curves.
2| Photometric (absorbance and transmittance) and quantitative (coefficient and standard curve method) and kinetic analysis
3| MWave basic software included. Compatible with MWave professional software that increases the functions of the device through the computer.

Code	HJD003
Model	4251/50
Wavelength range	190-1100nm
Optic system	Single beam, 1200 line/mm grid
Bandwidth	2nm
Wavelength accuracy	±0,5nm
Wavelength resolution	±0,1nm
Wavelength reproducibility	0,3nm
Photometric range	-0,3 - 3 A, 0 - 200% T
Lamps	Tungsten and deuterium
Detector	Silicon photodiode
Sample compartment	4 standard cuvettes with 10 mm light path
Output	USB and parallel port
Power	110 V 60 Hz / 220 V 50 Hz (manual switch)

HJD - UV - Visible

Model 4255/50

1| Memory for data and curve storage in the equipment.
2| Advanced and complete functions to cover the whole range of applications: photo-metric analysis (absorbance and transmittance), quantitative, kinetic, scanning, DNA/protein and multiple wavelength analysis.
3| Compatible with UV/Vis Analyst software (not included)

Code	HJD004
Wavelength range	190-1100nm
Optic system	Single beam, 1200 line/mm grid
Bandwidth	2nm
Wavelength accuracy	±0,5nm
Wavelength resolution	±0,1nm
Wavelength reproducibility	0,3nm
Scanning speed	High, medium and low (max 3000nm/min)
Photometric range	-0,3 - 3 A, 0 - 200% T, 0 - 9999 C
Lamps	Tungsten and deuterium
Detector	Silicon photodiode
Sample compartment	4 standard cuvettes with 10 mm light path
Output	USB and parallel port
Power	110 V 60 Hz / 220 V 50 Hz (manual switch)

Double beam model 4260/50

1| Double-beam optic system .
2| Quantitative analysis, kinetics, scanning, multi-component analysis and DNA/protein analysis .
3| Excellent measurement performance in the range of 190 to 1100 nm
4| Variable bandwidth (0.5/1/2/4/5nm) to maximize the balance between resolution, accuracy and precision in each application
5| Supplied with Windows-based UV/Vis Analyst application software

Code	HJD007
Wavelength range	190-1100 nm
Wavelength accuracy	± 0.3 nm
Wavelength reproducibility	0.2 nm
Spectral bandwidth	Variable: 0.5/1/2/4/5 nm
Photometric range	0-200% T, -0.3 – 3 A
Photometric accuracy	± 0.3% T o ± 0.003 A @ 1 A
Optic system	Double beam, rack 1200 lines/mm
Scanning speed	High, medium, low (max. 3000 nm/min)
Stray light	0.04% T @ 220 nm, 360 nm
Stability	0.0003 A/h @ 500 nm
Baseline flatness	± 0.0005 A
Screen	LCD 5 inch (320x240 points)
Sample compartment	10 mm single cell holder (sample and reference)
Cells	Includes 4 glass cuvettes and 2 quartz cuvettes
Light source	Tungsten and Deuterium Lamps (pre-aligned)
Outputs	USB type A port for USB memory stick (right side) USB type B port for PC connection (rear side) Parallel printer port
Power	AC 110/220 V, 50/60 Hz
Dimensions (LxWxA)	589x428x200 mm
Weight	22 Kg

HJD - UV - Visible

Series UV/Vis, model 4320/1

1| The 1200 l/mm holographic grating with low stray light and optimised optical design ensure greater accuracy.
2| Increased strength and durability due to cast aluminium base and moulded plastic housing.
3| Improved wavelength accuracy and repeatability and noise reduction due to new (patented) wavelength control mechanism.
4| High-resolution TFT colour LCD touch screen provides excellent viewing effect and easy operation.
5| Auto-calibration and pre-heating countdown at start-up. File management function.
6| Automatic wavelength adjustment.
7| Can be connected to a printer for direct output of measurement results.

Code	HJD008
Wavelength range	195 – 1050 nm
Wavelength accuracy	± 0.8 nm
Wavelength repeatability	≤ 0.4 nm
Spectral bandwidth	4 nm
Photometric range	-0.3~3 A; 0~200 %T; 0~9999.9 C
Optical system	Simple beam 1200 line/mm
Functions	Photometric and quantitative
Screen	Color touch screen (110x62 mm)
Sample compartment	4 standard cuvettes with 10 mm light path
Lamps	Tungsten and deuterium
Output	1 printer port, 1 PC USB port, 1 USB output
Power	100-240vAc 50/60Hz
Dimensions (LxWxA)	450x370x187mm
Weight	10,5 kg

Series UV/Vis, model 4320/2

1| Compatible with EasyUV software (HJH064), software must be purchased to use the scanning function.
2| 1200 l/mm holographic grating with low stray light and optimised optical design ensure greater accuracy.
3| Increased strength and durability due to cast aluminium base and moulded plastic housing.
4| Improved wavelength accuracy and repeatability and noise reduction due to the new (patented) wavelength control mechanism.
5| High-resolution TFT colour LCD touch screen provides excellent viewing effect and easy operation.
6| Auto-calibration and pre-heating countdown at start-up. File management function.
7| Automatic wavelength adjustment.
8| Can be connected to a printer for direct output of measurement results. EasyUV Basic software included.

Code	HJD009
Wavelength range	195 – 1050 nm
Wavelength accuracy	± 0.8 nm
Wavelength repeatability	≤ 0.4 nm
Spectral bandwidth	2 nm
Photometric range	-0.3~3 A; 0~200 %T; 0~9999.9 C
Optical system	Simple beam 1200 line/mm
Functions	Photometry and Quantitative
Screen	Color touch screen (110x62 mm)
Sample compartment	4 cuvettes of 10 mm
Lamps	Tungsten and deuterium
Output	1 printer port, 1 PC USB port, 1 USB output
Power	100-240vAc 50/60Hz
Dimensions (LxWxA)	450x370x187mm
Weight	10,5 kg

HJD - UV - Visible

Series UV-Vis model 4320/3

1| The 1200 l/mm holographic grating with low stray light and the optimized optical design ensure greater accuracy.
2| Increased strength and durability thanks to the cast aluminum base and molded plastic housing.
3| Improved precision and repeatability of the wavelength and noise reduction due to the new (patented) wavelength control mechanism.
4| The high-resolution TFT color LCD touch screen provides excellent display effect and simple operation.
5| Auto-calibration and preheating countdown on startup. File management function.
6| Automatic wavelength adjustment.
7| Can be connected to a printer for direct output of measurement results.

Code	HJD010
Wavelength range	190 – 1100 nm
Wavelength accuracy	± 0.5 nm
Wavelength repeatability	≤ 0.4 nm
Spectral bandwidth	4 nm
Photometric range	-0.3~3 A; 0~200 %T; 0~9999.9 C
Optical system	Simple beam 1200 line/mm
Functions	Photometric, quantitative, scanning
Screen	Colour touch screen (110x62 mm)
Sample compartment	4 cuvettes of 10 mm
Lamps	Tungsten and deuterium
Output	1 printer port 1 USB PC port, 1 USB output
Power	100-240vAc 50/60Hz
Dimensions (LxWxA)	450x370x187mm
Weight	10,5 kg

Series UV-Vis model 4320/4

1| The 1200 l/mm holographic grating with low stray light and the optimized optical design ensure greater accuracy.
2| Increased strength and durability thanks to the cast aluminum base and molded plastic housing.
3| Improved precision and repeatability of the wavelength and noise reduction due to the new (patented) wavelength control mechanism.
4| The high-resolution TFT color LCD touch screen provides excellent display effect and simple operation.
5| Auto-calibration and preheating countdown on startup. File management function.
6| Automatic wavelength adjustment.
7| Can be connected to a printer for direct output of measurement results.

Code	HJD011
Wavelength range	190 – 1100 nm
Wavelength accuracy	± 0.5 nm
Wavelength repeatability	≤ 0.4 nm
Spectral bandwidth	2 nm
Photometric range	-0.3~3 A; 0~200 %T; 0~9999.9 C
Optical system	Simple beam 1200 line/mm
Functions	Photometric, quantitative, scanning
Screen	Colour touch screen (110x62 mm)
Sample compartment	4 cuvettes of 10 mm
Lamps	Tungsten and deuterium
Output	1 printer port 1 USB PC port, 1 USB output
Power	100-240vAc 50/60Hz
Dimensions (LxWxA)	450x370x187mm
Weight	10,5 kg

HJD - UV - Visible

Series UV-Vis model 4330/6

1| The 1200 l/mm holographic grating with low stray light and the optimized split-beam optical system design ensure greater instrument accuracy.
2| Improved precision and repeatability of the wavelength and noise reduction due to the new (patented) wavelength control mechanism.
3| The external tablet (10.1-inch IPS color LCD touch screen) provides excellent display quality and simple operation.
4| Auto-calibration and preheating on startup. The powerful measurement and analysis functions and the open user-defined measurement methods can meet the measurement requirements of scientific research.
5| The optional software (UVstudio) has GLP/GMP functions, which can effectively track and manage instrument performance and measurement data.
6| File management function. Through various interfaces, keyboards, mice, scanners, and printers can be connected for data input and output, and network access for remote control, data transmission, and sharing.

Code	HJD012
Wavelength range	190-1100 nm
Wavelength accuracy	± 0.3 nm
Wavelength repeatability	≤ 0.1 nm
Spectral bandwidth	1.5 nm
Photometric range	0 to 400%T, -4 to 4A, 0 to 9999C
Optical system	Split beam, 1200 lines/mm grid
Functions	Photometry, multi-WL, Kinetics, Quantitative test, Dual component DNA/Protein, Time scan
Display	IPS colour capacitive touchscreen 10.1 inches
Sample compartment	10 mm manual 4-position cell holder
Lamps	Tungsten and deuterium
Output	1 printer port, 1 USB port for PC, 1 USB output, Connectivity via Bluetooth / 1 hub with 3+1 USB 3.0 ports + 1 type C
Power	100-240VAC, 50/60Hz, 120W
Dimensions (LxWxA)	450x370x187mm
Weight	11 kg

Series UV-Vis model 4330/9

1| The 1200 l/mm holographic grating with low stray light and the optimized dual-beam optical system design ensure greater measurement accuracy.
2| Improved precision and repeatability of the wavelength and noise reduction due to the new (patented) wavelength control mechanism.
3| The built-in computer (10.1-inch IPS color LCD touch screen) provides excellent display quality and simple operation.
4| Auto-calibration and preheating on startup.
5| The software (UVstudio) has GLP/GMP functions, which can effectively track and manage instrument performance and measurement data.
6| File management function. Through various interfaces, keyboards, mice, scanners, and printers can be connected for data input and output, and network access for remote control, data transmission, and sharing.

Code	HJD013
Wavelength range	190-1100 nm
Wavelength accuracy	± 0.3 nm
Wavelength repeatability	≤ 0.1 nm
Spectral bandwidth	Variable: 0.5,1,2,4,5nm
Photometric range	0 to 400%T, -4 to 4A, 0 to 9999C
Optical system	Double beam, 1200 lines/mm grid
Functions	Photometry, Quantitation, Spectrum, Kinetics, Time scanning Multi Wavelength, DNA/Protein, Custom Method
Screen	IPS colour capacitive touchscreen, 10.1 inches
Sample compartment	10 mm, 1-position cuvette holder
Lamps	Tungsten and deuterium
Output	1 VGA port, 1 WLAN port, 1 HDMI port 2x USB ports (left), 1 USB port (right) 1 rear USB B port
Power	100-240 VAC, 50/60 Hz, 140 W
Dimensions (LxWxA)	580x420x230 mm
Weight	15 kg

HJD - UV - Visible

Series UV-Vis model 4510/4

1| The 1200 l/mm holographic grating with low stray light and the optimized optical design ensure greater accuracy.
2| Increased strength and durability thanks to the cast aluminum base and molded plastic housing.
3| Improved precision and repeatability of the wavelength and noise reduction due to the new (patented) wavelength control mechanism.
4| The high-resolution TFT color LCD touch screen provides excellent display quality and simple operation. Auto-calibration and preheating countdown on startup.
5| File management function. Automatic wavelength adjustment.
6| Can be connected to a printer for direct output of measurement results. EasyUV Basic software included.

Code	HJD014
Wavelength range	190 – 1100 nm
Wavelength accuracy	± 0.5 nm
Wavelength repeatability	≤ 0.2 nm
Spectral bandwidth	2 nm
Photometric range	-0.3~4 A; 0~200 %T; 0~9999.9 C
Optical system	Split beam,1200 lines / mm grid
Functions	Photometry, Quantitation, Spectrum
Screen	TFT colour touchscreen, 5 inches (110x62 mm)
Sample compartment	For 4 x 10 mm cuvettes
Light source	Flashing Xenon lamp
Output	RS232 serial port × 1 (printer), USB-A 1 (USB storage), USB-B × 1 (PC)
Power	100-240vAc 50/60Hz
Dimensions (LxWxA)	450x370x187mm
Weight	10,5 kg

Series UV-Vis model 4510/5

1| The 1200 l/mm holographic grating with low stray light and the optimized split-beam optical system design ensure greater accuracy.
2| Improved precision and repeatability of the wavelength and noise reduction due to the new (patented) wavelength control mechanism.
3| The external tablet (10.1-inch IPS color LCD touch screen) provides excellent display quality and simple operation.
4| Auto-calibration and preheating on startup. The powerful measurement and analysis functions and the open user-defined measurement methods can meet the measurement requirements of scientific research.
5| The software (UVstudio) has GLP/GMP functions, which can effectively track and manage instrument performance and measurement data.
6| File management function. Through various interfaces, keyboards, mice, scanners, and printers can be connected for data input and output, and network access for remote control, data transmission, and sharing.

Code	HJD015
Wavelength range	190 – 1100 nm
Wavelength accuracy	± 0.3 nm
Wavelength repeatability	≤ 0.1 nm
Spectral bandwidth	2 nm
Photometric range	0 to 400%T, -4 to 4A, 0 to 9999C
Optical system	Split beam, 1200 lines / mm grid
Functions	Photometry, Quantitation, Spectrum, Kinetics Time scanning, Multi Wavelength, DNA/Protein, Custom
Screen	IPS colour capacitive touchscreen,10,1 inch External tablet (10.1" IPS colour LCD touch screen)
Sample compartment	For 4 x 10 mm cuvettes
Light source	Flashing Xenon lamp
Output	USB-A x1 (OTG function, expandable, connectable to printer storage, mouse, keyboard and other), USB-B x1 (PC) WIFI x1 (Internet), SD card x1, HDMI, Bluetooth
Power	100-240vAc 50/60Hz
Dimensions (LxWxA)	450x370x187mm
Weight	10,5 kg

HJD - UV - Visible

Series UV-Vis model 4510/7

1| The 1200 l/mm holographic grating with low stray light and the optimized dual-beam optical system design ensure greater accuracy.
2| Improved precision and repeatability of the wavelength and noise reduction due to the new (patented) wavelength control mechanism.
3| The built-in computer (10.1-inch IPS color LCD touch screen) provides excellent display quality and simple operation. Auto-calibration and preheating on startup.
4| The powerful measurement and analysis functions and the open user-defined measurement methods can meet the measurement requirements of scientific research.
5| The optional software (UVstudio) has GLP/GMP functions, which can effectively track and manage instrument performance and measurement data.
6| File management function. Through various interfaces, keyboards, mice, scanners, and printers can be connected for data input and output, and network access for remote control, data transmission, and sharing.

Code	HJD016
Wavelength range	190 – 1100 nm
Wavelength accuracy	± 0.3 nm
Wavelength repeatability	≤ 0.1 nm
Spectral bandwidth	1.8 nm
Photometric range	0 to 400%T, -4 to 4A, 0 to 9999C
Optical system	Double beam 1200 line/mm
Functions	Photometry, Quantitation, Spectrum, Kinetics, Time scanning, Multi Wavelength, DNA/Protein, Custom
Screen	IPS colour capacitive touchscreen,10,1 inches
Sample compartment	10 mm cuvettes (sample and reference)
Light source	Flashing Xenon lamp
Output	USB-A x3 (extensible, connectable to printer, storage, mouse, keyboard), USB-B (PC) x1, RJ-45 x1 (Ethernet) VGA x1, HDMI x1, Bluetooth (extensible, WIFI)
Power	100-240vAc 50/60Hz
Dimensions (LxWxA)	580x420x230 mm
Weight	15 kg

HJF - Microvolume nanodrop

Model Z-6500

1| Built-in computer with 7-inch high-definition, touch-screen display, included software for easy operation and no installation required.
2| ≥ 32GB storage for saving measurement result data and user-defined methods.
3| Measurement results are saved in spreadsheet format, can be exported via USB or transferred via network.
4| The material of the sensing base is stainless steel, and the centre point is quartz.
5| Two USB outputs for connecting devices such as mouse, keyboard, printer, etc.

Code	HJF001	HJF001
Model	Z-6500	Z-6500C
Wavelength range	190-900 nm	
Wavelength accuracy	± 1 nm	
Optical system	Split beam	
Bandwidth	1, 0.5, 0.05 mm (adjustable)	
Photometric range	0-300 A	
Sample volume	1-2.5 μl	
Detector	Linear silicified CCD array	
Nucleic acid measuring range	0.4-15000 ng/μl (dsADN)	
Protein measuring range	0.1-100 mg/ml (BSA)	
Detection cycle	≤ 5 s	
Power	29 W	
Power supply	100-240 V CA, 50/60 Hz	
Dimensions	300x200x180 mm	
Weight	3.2 kg	

HJG - Checking standards

Didimium glass filter

1| Solid filter for verification of wavelength accuracy in the range visible and UV (from 329 nm to 875 nm) and for verification of photometric accuracy.

Code	HJG001
Description	Didimium (F5)
Peak position (nm)	327, 473, 513, 684, 875
Nominal absorbance	5.0 (280 nm)
	3.0 (300 nm)
	0.5 (320 nm)
	0.2 (340 nm)

Neutral density glass filter

1| Grey glass filters for verification of photometric accuracy (absorbance) in the visible range (440 nm to 635 nm).
2| They show a relatively constant transmission along the visible spectrum being calibrated at certain wavelengths.
3| The glass filter thickness has been adjusted to give nominal absorbance values of 0.25 A, 0.5 A and 1 A.

Code	Des.	Nominal absorbance	Medium absorbance (nm)
HJG003	F2	0.25 A	440, 465, 546, 590, 635
HJG004	F3	0.5 A	440, 465, 546, 590, 635
HJG005	F4	1.0 A	440, 465, 546, 590, 635

HJH - Accessories

Accessories for spectrophotometers 4100, 4419, 4201/20, 4200, 4211/20, 4211/50, 4251/50, 4255/50'

Code	Description
Lamps	
HJH003	Halogen lamp 6 V 10 W, for model 4201/20
HJH006	Halogen lamp 12 V 20 W, for series 4201/4211/4251/4255
HJH007	Deuterium lamp, for series 4200
HJH034	Halogen lamp 12V 20W for model 4260/50
HJH060	Xenon lamp for models: 4510/4, 4510/5 y 4510/7
Software and printers	
HJH008	Software MWave Professional, for models 4201/50, 4211/20, 4211/50, 4251/50
HJH009	Software UV/Vis Analyst, for model 4255/50
HJH062	Stylus printer for spectrophotometers. For seriese 4211/20, 4201/50, 4211/50, 4251/50, 4255/50 and 4260/50.
HJH063	Thermal printer for spectrophotometers, For series 4201/20, 4310/3, 4320/1 to 4320/4 and 4510/4.
HJH064	EasyUV scanning software for codes HJB007, HJB008, HJD008, HJD009, HJD010, HJD011 and HJD014
HJH065	UV Studio data tracking software for codes HJD012, HJD015, HJD016 and HJD013
HJH066	Software of red wine for codes HJD003, HJB004, HJD001 and HJD002
HJH067	Software UVStudio GLP/GMP for HJD012, HJD013, HJD015 and HJD016

NEW

HJH - Accessories

Accessories for spectrophotometers 4100, 4419, 4201/20, 4200, 4211/20, 4211/50, 4251/50, 4255/50'

Code	Description
Supports	
HJH027	Support for 4 cells of 10 to 50mm
HJH031	Support for cylindrical tubes of Ø16 mm
HJH035	Support for 4 cuvettes of 10mm for 4211/20, 4201/20, 4201/50, 4211/50, 4251/50, 4255/50, 4260/50, 4310/3, 4320/1 to 4320/4, 4330/6, 4510/4 and 4510/5
HJH036	Support for 4 cuvettes up to 100 mm for 4211/20, 4201/20, 4201/50, 4211/50, 4251/50, 4255/50, 4260/50, 4310/3, 4320/1 to 4320/4, 4330/6, 4510/4 and 4510/5
HJH037	Support for 4 cuvettes up to 100 mm, double beam for series 4260/50, 4330/9 and 4510/7
HJH038	Support for 1x100mm cuvette, double beam for series 4260/50, 4330/9 and 4510/7
HJH039	Support for 1 cuvette of 10mm for series 4211/20, 4201/20, 4201/50, 4211/50, 4251/50 4255/50, 4260/50, 4310/3, 4320/1 to 4320/4, 4330/6, 4510/4 and 4510/5
HJH040	Support for 1 cylindrical cuvette Ø22 mm for series 4211/20, 4201/20, 4201/50, 4211/50 4251/50, 4255/50, 4260/50, 4310/3, 4320/1 to 4320/4, 4330/6, 4510/4 and 4510/5
HJH041	Support with water jacket for 1x10 mm cuvette for series 4201/20, 4251/50, 4255/50 4260/50, 4310/3, 4320/1 to 4320/4, 4330/6, 4510/4 and 4510/5
HJH042	Support with water jacket for 1x10 mm cuvette, double beam for series 4260/50, 4330/9 and 4510/7
HJH043	Support with water jacket for 4x10 mm cuvettes for series 4201/20, 4251/50, 4255/50 4260/50, 4310/3, 4320/1 to 4320/4, 4330/6, 4510/4 and 4510/5
HJH044	Support for microcuvette for series 4211/20, 4201/20, 4201/50, 4211/50, 4251/50, 4255/50 4260/50, 4310/3, 4320/1 to 4320/4, 4330/6, 4510/4 and 4510/5.
HJH045	Support cylindrical cuvette Ø8-22 mm for series 4211/20, 4201/20, 4201/50, 4211/50, 4251/50 4255/50, 4260/50, 4310/3, 4320/1 to 4320/4, 4330/6, 4510/4 and 4510/5.
HJH046	Solid sample holder (d1.5mm-3mm) 1 position for series 4211/20, 4201/20, 4201/50, 4211/50 4251/50, 4255/50, 4260/50, 4310/3, 4320/1 to 4320/4, 4330/6, 4510/4 and 4510/5.
HJH047	Solid sample holder (d1.5mm-3mm) 1 position, double beam for series 4260/50, 4330/9 and 4510/7
HJH048	Solid sample holder (d1.5mm-3mm) 2 positions for series 4211/20, 4201/20, 4201/50, 4211/50 4251/50, 4255/50, 4260/50, 4310/3, 4320/1 to 4320/4, 4330/6, 4510/4 and 4510/5
HJH049	Automatic 8-position holder for 10 mm cuvettes, type A HJH050 for series 4201/50, 4251/50 4255/50 and 4260/50
HJH051	Automatic 5-position holder for 10 mm cuvettes from 10mm to 100mm for series 4330/9 and 4510/7
HJH052	Automatic 8-position holder for 10 mm cuvettes, type B series 4310/3, 4320/1 to 4320/4 4330/6, 4330/9 and 4510/4 to 4510/7
HJH053	Support for 5° reflectance accessory for series 4201/20, 4211/20, 4201/50, 4211/50, 4251/50 4255/50, 4260/50, 4310/3, 4320/1 to 4, 4330/6, 4510/4 and 4510/7
Peltier systems	
HJH054	Peltier system type A for series 4251/50, 4255/50, 4260/50, 4330/9 and 4510/7
HJH055	Peltier system type B for series 4310/3, 4320/1 to 4320/4, 4330/6, 4510/4 and 4510/5
HJH056	Peltier system type A for series 4251/50, 4255/50, 4260/50, 4330/9 and 4510/7
HJH057	Peltier system type B for series 4310/3, 4320/1 to 4320/4, 4330/6, 4510/4 and 4510/5

HJK - Cells, glass

1| They are supplied in paired unit boxes and all have the following characteristics:

2| Material specifications: two types of material, optical glass (340-2500 nm) for the visible spectrum (vis) and synthetic quartz (190- 2500 nm) for the ultraviolet (UV)

3| Construction of the cells: they are made by tuning their walls, that is, following a process of heating, without reaching the temperature of fusion, of powder conglomerates to which it is modelled by pressure.

4| General characteristics:

- Resistance to alkali of 6mol/L of sodium hydroxide (NaOH), kept in the tank for 24 hours, without breakage or dripping.
- Resistance to acids of 6mol/L of hydrochloric acid (HCl), kept in the cuvette for 24 hours, without breakage or dripping.
- Resistance to organic solvents such as ethanol (C2H5OH), carbon trachloride (CCl4) or benzene (C6H6), kept separately in the cuvette for 24 hours, without breaking or dripping.

HJK - Cells, glass

Semi-micro glass cell (10 mm)

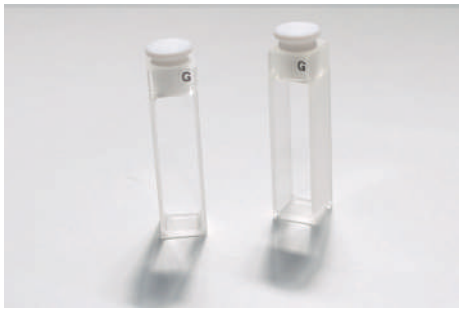
1| They are the most common in analytical chemistry.
2| They have two polished walls and have a cap (not airtight).
3| External dimensions 12.5 x B x 45 mm / Inlet beam width: 10 mm

Code	Light path	Volume
HJK001	1 mm	0.35 mL
HJK002	2 mm	0.70 mL
HJK003	5 mm	1.70 mL
HJK004	10 mm	3.50 mL
HJK005	20 mm	7.00 mL
HJK006	40 mm	14.00 mL
HJK007	50 mm	17.50 mL

Standard glass cell with stopper (10 mm)

1| They incorporate an airtight PTFE cap, recommended for volatile liquids.
2| External dimensions 12.5 x 12.5 x 48mm / Inlet beam width: 10 mm

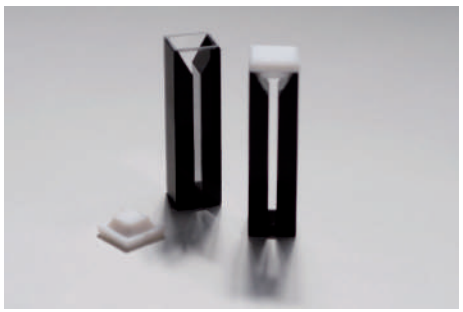
Code	Light path	Volume	Lot
HJK008	10 mm	3.50 mL	**2**



Semi-micro glass cell, black walls (4 mm)

1| To reduce the volume of the sample needed to make a measurement.
2| Its black faces improve sensitivity by eliminating stray light from the measurement.
3| External dimensions 12.5 x B x 45 mm / Input beam width: 4 mm
4| They have a cap (not watertight).

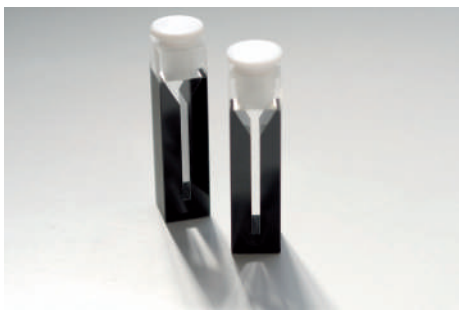
Code	Light path	Volume	Lot
HJK009	5 mm	0.50 mL	**2**
HJK010	10 mm	1.00 mL	**2**
HJK011	20 mm	2.00 mL	**2**



Semi-micro glass cell with stopper, black walls (4 mm)

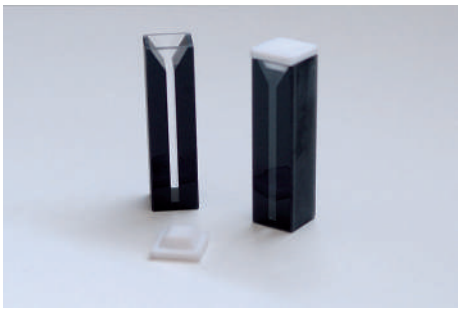
1| They incorporate an airtight PTFE cap, recommended for volatile liquids.
2| External dimensions 12.5 x 12.5 x 48mm / Inlet beam width: 4 mm.

Code	Light path	Volume	Lot
HJK012	10 mm	1.00 mL	**2**



HJK - Cells, glass

Micro glass cell, black walls (2 mm)



1| For small sample volumes.
2| Outside dimensions 12.5 x 12.5 x 48mm / Input beam width: 2 mm
3| Have a cap (not watertight)

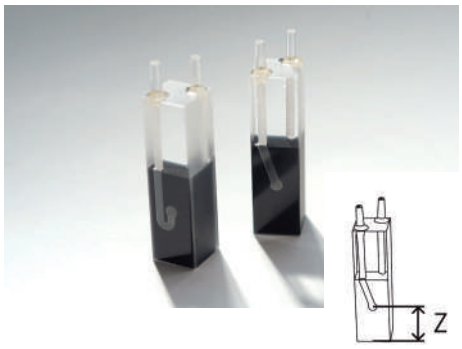
Code	Light path	Volume	Lot
HJK013	10 mm	0.50 mL	**2**

Micro glass cell with stopper, black walls (2 mm)

1| The same as the micro cuvettes except that they include a PTFE stopper that seals them hermetically, making them better for preventing the evaporation of volatile liquids.
2| External dimensions 12.5 x B x 48mm / Inlet beam width: 2 mm

Code	Light path	Volume	Lot
HJK014	5 mm	0.25 mL	**2**
HJK015	10 mm	0.50 mL	**2**

Flow through cell



1| Made of optical glass (G).
2| Used in applications requiring a measuring range of 340 nm to 2.5 mm.
3| Cuvettes have sample inlet and outlet tubes and two polished circular opening windows for the passage of the light beam.
4| Each model is supplied in a case with two units. External dimensions 12.5 x 12.5 x 45mm / Ø inlet beam: 3 mm

Code	Height Z	Light path	Volume	Lot
HJK016	8.5 mm	10 mm	0.07 mL	**2**
HJK017	15 mm	10 mm	0.07 mL	**2**

HJL - Cells, quartz

Standard quartz cell (10 mm)

1| They are the most common in analytical chemistry.
2| They have two polished walls and have a cap (not airtight).
3| External dimensions 12.5 x B x 45 mm / Inlet beam width: 10 mm

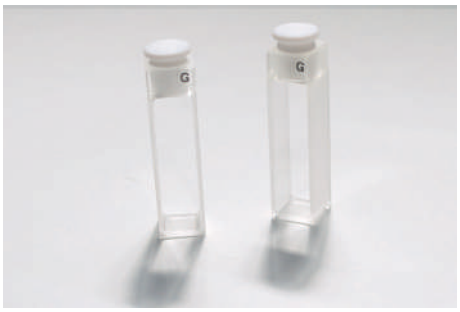
Code	Light path	Volume	Lot
HJL001	1 mm	0.35 mL	**2**
HJL002	2 mm	0.70 mL	**2**
HJL003	5 mm	1.70 mL	**2**
HJL004	10 mm	3.50 mL	**2**
HJL005	20 mm	7.00 mL	**2**
HJL006	40 mm	14.00 mL	**2**
HJL007	50 mm	17.50 mL	**2**

HJL - Cells, quartz

Standard quartz cell with stopper (10 mm)

1| They incorporate an airtight PTFE cap, recommended for volatile liquids.
2| External dimensions 12.5 x 12.5 x 48mm / Inlet beam width: 10 mm

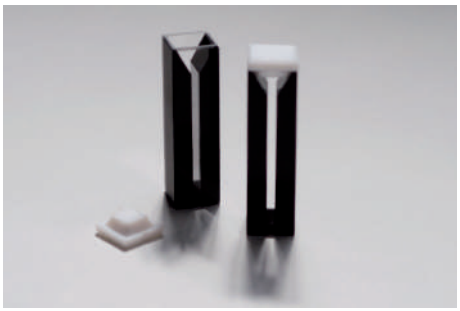
Code	Light path	Volume	Lot
HJL008	10 mm	3.50 mL	**2**



Semi-micro quartz cell, black wall (4 mm)

1| To reduce the volume of the sample needed to make a measurement.
2| Its black faces improve sensitivity by eliminating stray light from the measurement.
3| External dimensions 12.5 x B x 45mm / Input beam width: 4 mm
4| They have a cap (not watertight).

Code	Light path	Volume	Lot
HJL009	5 mm	0.50 mL	**2**
HJL010	10 mm	1.00 mL	**2**
HJL011	20 mm	2.00 mL	**2**



Semi-micro quartz cell with stopper, black walls (4 mm)

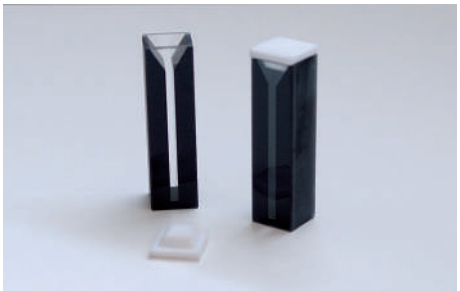
1| They incorporate an airtight PTFE cap, recommended for volatile liquids.
2| External dimensions 12.5 x 12.5 x 48mm / Inlet beam width: 4 mm.

Code	Light path	Volume	Lot
HJL012	10 mm	1.00 mL	**2**

Micro quartz cell, black walls (2 mm)

1| For small sample volumes.
2| External dimensions 12.5 x 12.5 x 48mm / Input beam width: 2 mm
3| They have a cap (not watertight).

Code	Light path	Volume	Lot
HJL013	10 mm	0.50 mL	**2**



HJL - Cells, quartz

Micro quartz cell with stopper, black walls (2 mm)

Zuzi

1| The same as the micro cuvettes except that they include a PTFE stopper that seals them hermetically, making them better for preventing the evaporation of volatile liquids.
2| External dimensions 12.5 x B x 48mm / Inlet beam width: 2 mm

Code	Light path	Volume	Lot
HJL014	5 mm	0.25 mL	**2**
HJL015	10 mm	0.50 mL	**2**

HJM - Cells, others

Cuvette macro PS

Kartell

1| External dimensions 12x12x45 mm

Code	Description	Cap.	Pack
HJM004	Macro	4.5 mL	100 pcs
HJM005	Semi-micro	1.5 mL	100 pcs
HJM007	Semi-micro	2.5 mL	100 pcs
HJM010	4 clear faces	4.5 mL	100 pcs

Spectr. UV cuvette PMMA

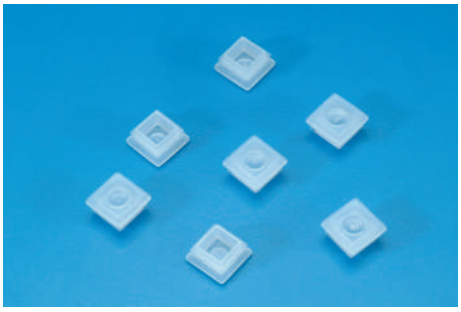
Kartell

1| External dimensions (mm): 12x12x45
2| Light path: 10

Code	Description	Cap.	Pack
HJM006	Macro	4.5 mL	100 pcs
HJM008	Semi-micro	2.5 mL	100 pcs
HJM009	Semi-micro	1.5 mL	100 pcs
HJM011	4 clear faces	4.5 mL	100 pcs

Caps for cuvettes

Kartell



1| Polyethylene pressure cap to close the cells with square section mouth (10x10 mm).
2| Ideal for shaking the sample eventually or as safety in case of accidental spillage.

Code	Dimensions	Pack
HJM012	10x10 mm	1.000

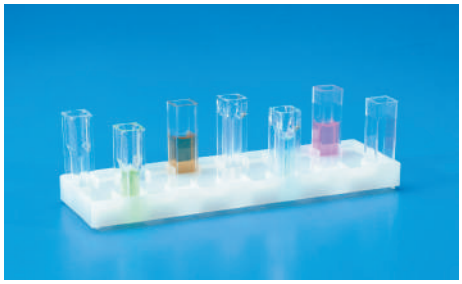
HJM - Cells, others

Tray

Kartell

1| It can hold 12 x 10 mm cells in an upright position for preparation and in a horizontal position for conservation and protection.

Code	Positions	Cuvette type	Dimensions
HJM002	12	2x12	170x50x15

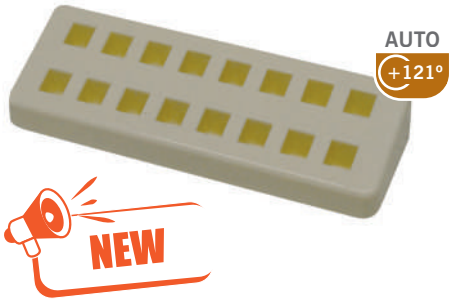


PP cuvette rack, 16 positions

ENDO plasticware

1| The wells hold standard spectrophotometer cuvettes with a 13mm cross-section. Sloped top makes the second tier more accesssible

Code	Dimensions (LxWxH)	Array
HJM020	210x70x35mm	2 rows x 8 cuvettes



HMB - Polarimeters

404 and 404-LED models

Zuzi

1| Inclined sample compartment that can accommodate tubes up to 220 mm
2| Double reading scale by means of Vernier to avoid differences due to eccentricity.
3| Eyepiece with diopter adjustment.
4| Two lateral magnifying glasses of 4 magnifications to facilitate the reading of the scale.
5| Supplied with two tubes for samples of 100 and 200 mm respectively.

Code	HMB001	HMB002
Model	404	404-LED
Ilumination	Sodium vapour lamp	LED + filter
Wavelength lenght	589,4 nm	589,4 nm
Number of scales	2	
Meassurement range	Two quadrants (0-180º)	
Scale division	1º	
Legibility (Vernier)	0,05º	

CODE - HMB001

CODE - HMB002

HMB - Polarimeters

Model 412

1| Photoelectric detection, RS 232 output.
2| Repeats the measurement 3 times and calculates the average value.
3| High sensitivity, used with samples of low optical rotation that are difficult to analyze in the optical polarimeter.
4| Supplied with two tubes for 100 and 200 mm samples.
5| Measurement of optical rotation.

Code	HMB003
Model	412
Range	From +45º to -45º
Accuracy	±(0,001+ meassured value ×0,05%)
Minimum transmittance of the sample	10%
Ilumination	LED + filter (589,4nm)
Speed	1,3º/s

Model 418

1| Advanced digital circuit and microprocessor control, RS 232 output
2| Repeats the measurement 3 times and calculates the average value.
3| Performs readings on dark samples with a transmittance close to 1%
4| Supplied together with two sample tubes of 100 and 200mm
5| Optical rotation and sugar degree measurement

Code	HMB004
Model	418
Range	From +45º to -45º/ From +130ºZ to -130ºZ
Accuracy	±0,001º
Minimum transmittance of the sample	1%
Ilumination	LED + filter (589,4nm)
Speed	1º/s

Model 430

1| Photoelectric detection and microprocessor control. RS232 output.
2| Measurement of specific rotation, optical rotation, sugar level and concentration
3| Repeat the measurement 6 times and calculate the main value and RMS value.
4| Supplied with two sample tubes of 100 and 200mm.

Code	HMB005
Model	430
Range	From +45º to -45º / From +130ºZ to -130ºZ
Accuracy	±0,01º + (measured value ×0,05%)/n10000 ±0,03ºZ + (measured value ×0,05%) /n10000
Min transmittance of the sample	10%
Ilumination	Sodium lamp + filter (589,4nm)
Speed	1º/s

HMF - Calibration pieces

1| To check the accuracy of the polarimeter measurements.
2| Quartz piece with metal mount. Supplied in a case.

Code	Description
HMF001	Quartz piece for calibration of polarimeter +5°
HMF002	Quartz piece for calibration of polarimeter -5°
HMF003	Quartz piece for calibration of polarimeter +17°
HMF004	Quartz piece for calibration of polarimeter -17°
HMF005	Quartz piece for calibration of polarimeter +35°
HMF006	Quartz piece for calibration of polarimeter -35°

HMG - Accessories

Code	Description
HMG001	Sodium vapor lamp 589,3 nm
HMG002	Rubber joint for polarimeter
HMG003	Test tube with stopper for polarimeter
HMG004	Test tube circular glass disk 15 mm
HMG005	Test tube for polarimeter 100 mm
HMG006	Test tube for polarimeter 200 mm
HMG007	Polarimeter kit. Composed of: - HMG002, Rubber joint for Test Tubes - HMG003, Test Tube Stopper - HMG004, Test tube circular glass disk 15 mm
HMG008	Glass for polarimeter lamp protector model 404

CODE - HMG005

CODE - HMG006

HPB - Abbe

Model Abbe 315RS, digital

1| Application in the chemical, oil, food, pharmaceutical and scientific industries universities, etc.
2| Measurement of the refractive index (nD) of transparent and translucent solids and liquids, as well as the sugar (or Brix) concentration in solutions
3| Automatic temperature compensation for the Brix scale

Code	HPB001
Range	
Refractive index	1,3000-1,7000 nD
Brix	0-95%
Accuracy	
Refractive index	±0,0002 nD
Brix	± 0,1
Dimensions	330 x180x380 mm
Temperature correction	15/45 °C
Weight	10 kg
Power	CA 220 V, 50-60 Hz

HPB - Abbe

Model Abbe 325

1| To measure refractive indices and sugar concentration (Brix).
2| Metal construction equipment ready to be coupled to a circulation thermostat, with digital thermometer
3| The scale is illuminated by natural light and the lighting can be incident or transmitted
4| Optical system magnification: 2x. Magnification of the reading system: 30x

Code	HPB002
Range	
Refractive index	1,3000 - 1,7000 nD
Brix	0-95%
Accuracy	
Refractive index	±0,0005 nD
Brix	± 0,25%
Dimensions	100x200x240 mm
Weight	2,6 kg

HPC - Digital refractometers

1| These equipements have automatic temperature compensation (ATC) that make temperature corrections between 0 to 40 ºC (32~104ºF).
2| These refractometers use the standardised brix scale which is accurate and easy to read.
3| More specific refractometers are available for measuring sugar concentration in wine, must and juices and also to measure various scales in colostrum.
4| With digital display. Quick to obtain and easy to read measured values

Wine

1| To measure both the sugar content and alcohol level in wine and the density of grape must (Oechsle degree - Oe).

Code	HPC004		
	Range	**Resolution**	**Accuracy**
Brix %	0.0 - 45.0	0.10	±0.2
% VOL ap	0.0-22.0	0.1	±0.2
Oe	0-150	1	±2.0
KMW	0.0-25.0	0.1	±0.2

Milk

1| To measure different scales in colostrum from milk.

Code	HPC005		
	Range	**Resolution**	**Accuracy**
Milk concentration	0 - 50	0.10	±0.2
Total serum immoglobulin content g/dl	0 - 12	0.1	0.2

HPC - Digital refractometers

Brix

1| To measure the sugar content in various samples such as fruit juice, syrups, puree, coffee drinks, cocoa drinks, soft drinks, water-soluble cutting oil, water-soluble washing solution, etc.
2|These devices feature Automatic Temperature Compensation (ATC) that makes temperature corrections between 0 to 40ºC (32~104ºF).
3| These refractometers use the standardized Brix scale, which is accurate and easy to read.
4| Availability of more specific refractometers to measure the sugar concentration in wine, must, and juices, as well as to measure different scales in colostrum.
5| With a digital display. Quick measurement values that are easy to read.

Code	HPC001			HPC002			HPC003		
	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Range	Resolution	Accuracy
Brix %	0.0 - 50.0	0.10	±0.2	0.0 - 90.0	0.10	±0.2	-	-	-
Index refraction nD	1.3330 - 1.4200	0.0001	±0.0003	1.3330 - 1.5177	0.0001	±0.0003	1.3330 - 1.4200	0.0001	±0.0003
Dextrose %	-	-	-	-	-	-	0.0 - 10.6	0.10	±0.2
Fructose %	-	-	-	-	-	-	0.0 - 68.9	0.10	±0.2
Glucose %	-	-	-	-	-	-	0.0 - 59.9	0.10	±0.2
Lactose %	-	-	-	-	-	-	0.0 - 16.5	0.10	±0.2
Maltose %	-	-	-	-	-	-	0.0 - 15.6	0.10	±0.2

HPD - Hand, Brix scale

1| Supplied in plastic case with pipettes for sampling, cover, screwdriver, rubber blinkers and rubber handle.

Brix

Code	Range	Accuracy
HPD012	0-10% Bx	0.1%
HPD013	0-20% Bx	0.1%
HPD026 *	0-20% Bx	0.1%
HPD014	0-32% Bx	0.2%
HPD027*	0-32% Bx	0.2%
HPD015	28-62% Bx	0.2%
HPD028*	28-62% Bx	0.2%
HPD016	45-82% Bx	0.5%
HPD029*	45-82% Bx	0.5%
HPD017	58-92% Bx	0.5%
HPD019	0-50% Bx	0.5%
HPD031*	0-50% Bx	0.5%
HPD009	0-80% Bx	0.5%
HPD020	0-80% Bx	0.5%
HPD032*	0-80% Bx	0.5%

*LED refractometer

58-92% Brix | 38-43 º Baume | 12-27% Water

1| This refractometer is specially suited for analyzing the three main values in honey; sugar content, Baumé degrees and water content.
2| Calibration is performed with a test piece and bromonaphtalene, both included.

Code	Range	Accuracy
HPD018	58-92% Bx	0.5%
	38-43 ºBé	0.5%
	12-27% Water	0.5%
HPD030*	58-92% Bx	0.5%
	38-43 ºBé	0.5%
	12-27% Water	0.5%

LED refractometer

HPD - Hand, Brix scale

0-80% Brix (2 scales)

1| Refractometer consisting of a 0-80% Brix scale. The separation line in this model is white/blue.
2| It is used for the determination of all kinds of substances such as fruits, juices, non-alcoholic beverages, and even for the determination of industrial oils.

Code	Range	Accuracy	ATC (10-30ºC)
HPD021	0-80% Bx (0-50%; 50-80%)	1%	No

0-90% Brix | 0-90% Brix (3 scales)

1| Has a wide range 0-90% Brix, it allows the measurement of very different types of samples.
2| Calibration is performed with distilled water (model HPD011)

Code	Range	Accuracy	ATC (10-30ºC)
HPD011	0-90% Bx	0.5%	No
HPD010	0-90% Bx (0-42% 42-71%; 41-90%)	0.2%	No

HPF - Hand, salinity

0-100‰ Sal

Code	Range	Accuracy
HPF005	0-28% Salt	0.2%
HPF004	0-100‰ Salt 1,000-1,070 g/L	1‰ 0.001
HPF007	0-100‰ Salt 0-10% Bx 1,000-1,070 g/L	1‰ 0.1% 0.001
HPF010*	0-100‰ Salt 1,000-1,070 g/L	1‰ 0.001
HPF012	0-40‰ Salt 1,000 - 1,030 sg	0,1‰ 0,001 sg
HPF013	20-40‰ Salt 1,015 - 1,030 sg	0,1‰ 0,001 sg

**LED refractometer*

HPH - Hand, oenology

0-25% probable alcohol and 3 scales

Code	Range	Accuracy
HPH002	0-25%*	0.2%
HPH003	0-25% probable alcohol 0-22º Bé; 0-40% Bx	0.2% 0.2º 1%
HPH013	0-25%*	0.2%
HPH014*	0-25% probable alcohol 0-22º Bé; 0-40% Bx	0.2% 0.2º 1%
HPH015	0-190º Oe 0-38º KMW Babo 0-44% mash sacch	±2º ±0,4º ±0,4%

** probable alcohol . Code. HPH013 LED refractometer*

HPK - Hand, batteries

Code	Solution	Range	Accuracy
HPK002	Antifreeze Electrolytic solution Cleaning liquid	-50 a 0 ºC (EG/PG) 1.15-1.30 sg -40 a 0 ºC	5 ºC 0.01 sg 5ºC
HPK005	Antifreeze Electrolytic solution Cleaning liquid	-50 a 0 ºC (EG/PG) 1.10-1.40 Kg/L -40 a 0 ºC	5ºC 0.01 Kg/L 10ºC
HPK008	Antifreeze Electrolytic solution Cleaning liquid UreaAddblue	-50 a 0 ºC (EG/PG) 1.10-1.40 Kg/L -40 a 0 ºC 30-35 %	5ºC 0.01 Kg/L 10ºC 0.2%
HPK006	Antifreeze Electrolytic solution	-50 a 0 ºC (EG/PG) 1.15-1.30 sg	5 ºC 0.01 sg

HPM - Hand, clinical

Clinical hand refractometer, 3 scales

1| Model that has three scales, the first for serum protein, the second indicates the specific weight of urine and the third the refractive index.
2| Calibration is performed with distilled water by matching the separation line with the value 1.333 of the refractive index scale.

Code	Range	Accuracy
HPM002	0 - 12 g/dl 1.000-1.050 sg 1.333-1.360 nD	0.2 % g/dL 0.002 sg 0.005 nD
HPM005	0 - 12 g/dl 1.000-1.050 sg 1.3330-1.3600 nD	0.2 % g/dL 0.002 sg 0.0005 nD

**LED refractometer*

URIVET, hand refractometer

1| Specially designed for veterinary applications and in particular for dog and cat urine analysis. Simple, fast and easy to use, it allows immediate readings with just a drop.

Code	Range	Accuracy
HPM003	2-14 g/100 mL 1.000-1.060 sg	0.1 g/100 mL 0.001 sg

HPP - Hands, others

Hand refractometer for milk

1| Refractometer indicated to know the concentration of water in the milk.
2| Calibrated with distilled water.

Code	Range	Accuracy
HPP002	-1%-20%	0.2%

Refractometer 1.333-1.520 nD, 3 scales

1| Handheld refractometers are very useful to know the concentration of dissolved solids (%Brix) or the refractive index (nD) of aqueous solutions.
2| They allow a wide variety of samples to be analyzed thanks to their division into three scales that cover a wide measuring range.

Code	Range	Accuracy
HPP003	1.333-1.515 nD (3 scales) (1.333-1.400 nD 1.400-1.470 nD 1.470-1520 nD)	0.0005 nD

Beer refractometer

Code	Range	Accuracy
HPP017	0-32% Brix	±0,2% Brix
	Wort Specific Gravity: 1,000-1,130	±0,001
HPP018	0-18 Plato	±0,1 Plato

Milk refractometer

1| Refractometer suitable for determining the water concentration in milk.
2| It is calibrated with distilled water.

Code	Range	Accuracy
HPP019	0-25% Soja	±0,5% Soja
	0-32% Brix	±0,2% Brix

HPP - Hands, others

Hand refractometer, accessories

Code	Description
HPP004	Cover prism plate, two pieces
HPP005	Blinker for hand refractometers
HPP006	Plastic box for hand refractometers
HPP007	Test piece for the calibration of ABBE Refractomet
HPP009	Digital thermometer f/refractometer 325
HPP008	Lamp 6.3v, 2.5w for ABBE Refractometer 315
HPP015	Portable bag for hand refractometer

HRB - Hand

Metal ring magnifying glass

1| Black metal ring handle that can be unscrewed and separated from the rest of the magnifying glass. The lens is glass.

Code	Diameter	Magnification
HRB010	50 mm	5x
HRB011	75 mm	3x

J HEATING - COOLING

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JBB - Incubators

Incubator series 636 Plus

YouTube

1| Made of painted and oven-dried steel, epoxy coated metal exterior cabinet and stainless steal interior.
2| Door with double glass window for external control without temperature variations in the inner chamber.
3| Air circulation system by natural convection.
4| Supplied with two height-adjustable grille trays.

Code	JBB005	JBB001	JBB002	JBB003	JBB004
Capacity	18 L	30 L	45 L	65 L	125 L
Temperature range	RT+5 at 80ºC				
Resolution	1 ºC (configurable to 0.1ºC)*.				
Temperature fluctuation	± 1.0 ºC				
Homogeneity	2%				
Power	0.3 Kw	0.3 Kw	0.3 Kw	0.4 Kw	0.5 Kw
Dimensions (cm)					
external	44x38x55	46x51x69	50x55x73	55x55x84	64x68x91
internal	26x26x26	31x31x31	35x35x35	40x36x45	50x45x55
Weight	20 Kg	39 Kg	42 Kg	53 Kg	58 Kg

** consult*

High precision incubators, 642

1| Inner chamber and shelves are made of mirror-like stainless steel, suitable for cleaning and disinfection. The outside of the incubator is coated with Akzo powder which gives it a better appearance and high resistance to corrosion..
2| Has special design heating method, high precision temperature uniformity even without fan inside and can also prevent the culture solution from being blown dry..

Code	JBB006	JBB007	JBB008
Capacity	43 L	63 L	124 L
Load capacity per tray	15 kg		
Temperature range	RT +5 ~ 65ºC		
Temp. resolution	0.1ºC		
Temp. fluctuation	± 0.5ºC		
Temp. uniformity	± 1.0ºC		
Power	0.25 kw	0.25 kw	0.5 kw
Timer	0 ~ 9999 minutes		
Internal dim. (LxAxH cm)	35x35x35	40x35x45	50x45x55
External dim. (LxAxH cm)	50x47.5x61.5	55x47,4x71,5	65x57,5x81,5
Weight	29/32 kg	33/38 kg	49/53 kg

"Incubat"

1| Natural convection.
2| Temperature thermostat control with digital thermometer.
3| Adjustable temperatures from ambient +5 °c up to 80 °c.
4| Stability: ±0.1 °c, up to 37 °c. homogeneity: ±0.5 °c, up to 37 °c
5| Internal glass door.

Code	JBB565	JBB566	JBB567	JBB568	JBB569
Capacity	19L	36L	52L	80L	150L
Dimensions (cm)					
external	51x57x49	60x62x54	53x79x57	70x72x74	70x92x74
internal	30x25x25	40x30x30	33x47x33	50x40x40	50x60x50
Positions	5	7	5	8	8
Power	165 W	245 W	275 W	325W	545W
Weight	26 Kg	36 Kg	46 Kg	54 Kg	78 Kg

JBB - Incubators

"Incudigit-TFT"

1| Natural convection.Digital control and display of temperature and time.
2| Adjustable temperature from ambient +5 °c up to 80 °c.
3| Stability: ±0.1 °C, up to 37 °c. Homogeneity: ±0.5 °C, up to 37 °C. Set error: ±2% of the working temperature, resolution 0.1 °C
4| Internal tempered glass door.

Code	JBB560	JBB561	JBB562	JBB563	JBB564
Capacity	19 L	36 L	52 L	80L	150L
Dimensions (cm)					
external	51x57x49	60x62x54	53x79x57	70x72x64	70x92x74
internal	30x25x25	40x30x30	33x47x33	50x40x40	50x60x50
Positions	5	5	5	8	8
Power	170 W	225 W	275 W	300W	525W
Weight	26 Kg	36 Kg	46 Kg	54 Kg	75 Kg

"Incubator CO2"

1| External case of steel coated with epoxy with insulated chamber.
2|Two doors; one interior of tempered glass with silicon gasket and a heated external steel door with magnetic seal to prevent condensation on the glass door.
3| Smooth door action, to prevent jolts or vibrations.
4| 4 Adjustable temperature from ambient +5°C to 50°C.

Code	JBB545
Capacity	150 L
Shelves positions	9
Power	1100 W
Dimensions (cm)	
external	95x65x73
internal	65x50x46
Weight	110 Kg

JBD - Drying ovens

Drying oven, series 631 PLUS

1| Epoxy coated metal exterior cabinet and stainless steel interior. Adjustable legs to facilitate the installation and leveling of the stove.
2| Door with 180º opening window with double thermal safety glass for external control, without temperature variations in the interior chamber.
3| Air circulation system by natural convection (by changing densities).
4| Supplied with two height-adjustable grid trays.
5| Two heating speeds that can be selected with a button (except in ref.JBD009).

Code	JBD009	JBD001	JBD002	JBD003	JBD004
Capacity	18 L	30 L	45 L	65 L	125 L
Temperature range	80ºC a 250 ºC				
Resolution	1 ºC (configurable at 0.1ºC)*				
Fluctuation temperature	± 1.0 ºC				
Homogeneity	2%				
Power	0.6 Kw	0.8 Kw	1.0 Kw	1.5 Kw	2.3 Kw
Approx. dimensions (cm)					
external	44x38x55	46x51x69	50x55x73	55x55x84	64x68x91
internal	26x26x26	31x31x31	35x35x35	40x36x45	50x45x55
Weight	20 Kg	39 Kg	42 Kg	53 Kg	58 Kg

** consult*

JBD - Drying ovens

Forced air ovens, series 632 PLUS

1| Forced air circulation by means of a fan.
2| Fan on/off switch.

Code	JBD005	JBD006	JBD007	JBD008	JBD010
Capacity	30 L	45 L	65 L	125 L	230 L
Temperature range	80 - 250ºC				RT+10 - 300ºC
Resolution	1ºC (configurable at 0.1ºC)*				0.1 ºC
Fluctuation temperature	±1,0ºC				
Homogeneity	2%				±2,5%
Power	0.8 Kw	1.0 Kw	1.5Kw	2.3Kw	
Approx. dimensions cm					
external	46x51x69	50x55x73	55x55x84	64x68x91	74x70x127
internal	31x31x31	35x35x35	40x36x45	50x45x55	60x50x75
Weight	39 Kg	42 Kg	53 Kg	58 Kg	84 Kg

** consult*

Code	Description
JBG014	Tray and fastening guides 47x42 cm for ovens 30 L (new type)
JBG015	Tray and fastening guides 47x42 cm for ovens 45 L (new type)
JBG016	Tray and fastening guides 47x42 cm for ovens 65 L (new type)
JBG017	Tray and fastening guides 47x42 cm for ovens 125 L (new type)
JBG018	Tray and fastening guides 47x42 cm for ovens 230 L (new type)
JBG019	Tray and fastening guides 47x42 cm for ovens 43 L, model 642
JBG020	Tray and fastening guides 47x42 cm for ovens 63 L, model 642
JBG021	Tray and fastening guides 47x42 cm for ovens124 L, model 642

"Conterm"

1| Natural convection. Temperature thermostat control with digital thermometer.
2| For adjustable temperatures from 40 °c up to 250 °c.
3| Stability: ±0.5 °C up to 150 °c. Homogeneity: ±1.5 °C up to 150 °c.

Code	JBD540	JBD541	JBD543*	JBD544
Capacity	19L	36L	52L	80L
Dimensions (cm)				
external	50x60x44	60x65x49	53x82x52	70x74x59
internal	30x25x25	40x30x30	33x47x33	50x40x40
Shelves	5	7	5	8
Power	580 W	870 W	980 W	1150 W
Weight	27 Kg	35 Kg	44 Kg	54 Kg

** Type Poupinel*

JBD - Drying ovens

"Digitheat-TFT"

1| Natural convection.Microprocessor control with tft touch screen.
2| Adjustable temperature from ambient +5 °c up to 250 °c.
3| Stability: ±0.3 °c, up to 150 °c. homogeneity: ±1 °c, up to 150 °c.
4| Set error: ±2 % of the working temperature. resolution: 1 °c.

Code	JBD546	JBD547	JBD548*	JBD549	JBD550*
Capacity	19 L	36 L	52 L	80 L	150 L
Shelves positions	5	7	5	8	8
Power	600 W	900 W	1000 W	1200 W	2100 W
Dimensions (cm)					
external	50x60x44	60x65x49	53x82x52	70x74x59	70x95x68
internal	30x25x25	40x30x30	33X47X33	50x40x40	50x60x50
Weight	24 Kg	35 Kg	44 Kg	59 Kg	73 Kg

** model poupinel*

JBB - Incubators

"Digitronic TFT"

1| TFT touch screen. Inner chamber made of AISI 304 stainless steel.
2| Pre-mixing chamber made of AISI 304 stainless steel.
3| Homogeneously distributed shielded heating elements with complete air circulation throughout. Low external temperature due to excellent thermal insulation.
4| Flexible silicon door gasket around the entrance of the chamber.
5| Excellent door seal due to the floating inner door that adjusts and absorbs the thermal expansion. Turbo fan made of AISI 304 stainless steel that makes to circulate the air at the working temperature.
6| Diagram showing the air flow from the pre-mixing chamber around the heating elements prior to entry to the oven's chamber.
7| Independent insulated control box. Epoxy coated outer case.
8| Adjustable temperature from ambient +5°C to 250°C

Model Digitronic type Poupine
CODE: JBB539 and JBB543

Code	JBB537	JBB538	JBB539
Capacity	33 L	47 L	47 L
Door type	Glass	Metal	Glass
Heating rate (100°C)	15 min	16 min	16 min
Recovery time	7 min	7 min	7 min
Comp.air exchange	16/hr	16/hr	16/hr
Shelves positions	7	5	5
Power	1200W	1200W	1200W
Dimensions (cm)			
external	60x65x55	53x81x58	53x81x58
internal	40x28x30	33x45x32	33x45x32
Weight	40 Kg	46 Kg	50 Kg

Model Digitronic with solid metal door.
CODE: JBB540

(With toughened glass window door
CODE: JBB537 and JBB541)

Code	JBB540	JBB541	JBB542	JBB543
Capacity	76 L	76 L	145 L	145 L
Door type	Metal	Glass	Metal	Glass
Heating rate (100°C)	17 min	17 min	17 min	17 min
Recovery time	9 min	9 min	10 min	10 min
Comp.air exchange	14/hr	14/hr	12/hr	12/hr
Shelves positions	8	8	9	9
Power	1600W	1600W	2000W	2000W
Dimensions (cm)				
external	70x75x65	70x75x65	70x95x72	70x95x72
internal	50x38x40	50x38x40	50x58x50	50x58x50
Weight	58 Kg	64 Kg	74 Kg	79 Kg

Model Digitronic type Poupinel, door with toughened double glass window
CODE: JBB538 and JBB542

JBD - Drying ovens

Digital oven DRYBIG

1| Rapid temperature attainment and recovery in minimal time.
2| With forced air circulation.
3| Digital regulation and display of temperature and time.
4| Adjustable temperatures from 40°C to 250°C. Stability ±0.4°C at 100°C. Homogeneity ±2°C at 100°C. Setpoint error ±2.5% at working temperature. Resolution: 1°C.

Code	JBD530	JBD532
Capacity	216 L	288 L
Setpoint time 100°/min	16	18
Recovery time min	10	10
Air renewal per hour	12	11
Dimensions (height x width x depth) (cm)		
internal	60x60x60	80x60x60
external	87x112x84	107x112x84
Power	4000 W	5000 W
Shelves	6	8
Weight	150 Kg	161 Kg

Code	JBD534	JBD535
Volume	400 L	720 L
Setpoint time 100°/min	18	19
Recovery time min	13	13
Air renewal per hour	6	6
Dimensions (height x width x depth) (cm)		
internal	100x80x50	120x100x60
external	128x132x74	150x152x80
Power	5250 W	6000 W
Shelves	10	12
Weight	200 Kg	264 Kg

Drying oven for glassware “Dryglass”

1| Hydraulic thermostat for temperature control. Air circulation by turbo fan. Inner chamber made of AISI 304 stainless steel with shelf runners. Removable tempered glass sliding doors. Ventilation port for steam. Epoxy coated external case.
2| Supplied with 2 shelves and 4 shelf guides.
3| Dual heating power selector switch. Mains indicator lamp. Hydraulic thermostat for temperature control. Locking system of thermostat knop. Heater “ON” operation indicator lamp. Analogue thermometer. Adjustable over temperature safety thermostat, that cuts off the power if the control thermostat fails, manual reset with “on” indicator lamp.
4| Adjustable temperature from 40°C to 170°C.

Code	JBD512
Capacity	126 L
Shelves positions	8
Power	3000 W
Dimensions (cm)	
external	66x94x54
internal	45x70x40
Weight	65 Kg

JBD - Drying ovens

Poupinel dry heat sterilizer “Dryterm”

1| Heating by shielded elements in the base that provides a rapid rise in temperature. Flap door. Inner chamber made of AISI 304 stainless steel, complete with a heater cover, three shelf runners and two perforated shelves 10 mm high.Epoxy-coated outer casing.
2| Hydraulic thermostat temperature control. Locking device for thermostat knob. Timer 0 to 120 min. with automatic switch off. Heater “ON” indicator. Analogue temperature reading thermometer.

Code	JBD513
Capacity	19 L
Temperature range	From 60 ºC up to 250 ºC
Power	770 W
Dimensions (cm)	
external	37x54x34
internal	25x32x23
Weight	19 Kg

Poupinel dry heat sterilizer “Drytime II”

1| Heating by shielded elements in the base which provide a rapid temperature rise.
2| Flap door.
3| Inner chamber in AISI 304 stainless steel.
4| Removable tank with extraction clamps.
5| Adjustable temperature from 50°C to 220°C.

Code	JBD518
Capacity	1,5 L
Dimensions (cm)	
external	15x31x20
internal	6,5x25x12
Power	300 W
Weight	4 Kg

JBJ - Refrigerated incubators

Biochemical refrigerated incubator

1| The shell is made of cold rolled steel plate, and the working chamber and shelves are made of mirror stainless steel, convenient for cleaning and disinfection.
2| Control panel with color LCD screen and 4 buttons. With over-temperature alarm, and additional independent digital limiter to ensure temperature accuracy. Multi-stage program configuration to meet different experimental requirements.
3| Parameters
- High quality compressor to ensure long running time
- The dual evaporator switch works to prevent the formation of ice sheets or frost.
- The special design of the conduit guarantees the uniformity of the temperature inside as well as avoiding the dehydration of the culture media.

4| Includes two height adjustable shelves. Up to 10 different heights to choose from.

Code	JBJ004	JBJ005
Capacity	70 L	150 L
Temperature range	0-65 ºC	
Resolution	0,1 ºC	
Temperature fluctuation	±0,5ºC	
Temperature accuracy	±1ºC (to 37 ºC)	
Power	600 W	800 W
Dimensions		
external	58x67x1210 cm	68x72x1410 cm
internal	42x35.5x55 cm	50x40.5x75 cm
Weight	85 Kg	120 Kg

JBJ - Refrigerated incubators

Refrigerated cabinets “Medilow-S”

1| With forced air fan circulation. With digital electronic temperature control.
2| Temperature range controllable from +2 °c to +40 °c. With a stability of ±1.5 °C.
3| Resolution 1 °c.

Code	JBJ501
Capacity	180 L
Dimensions (cm)	
external	85x60x85
internal	70x51x44
Shelves	3
Internal power points	2
Power	250 W
Weight	36 Kg

*CODE: JBB562**

JBN - Vacuum ovens

Vacuum ovens

1| Natural convection stoves feature an interior chamber constructed from stainless steel and an LCD screen.
2| The JBN001 model comes with one tray, while the JBN002 model comes with two trays.

Code	JBN001	JBN002
Capacity	25 L	53 L
Temperature range	RT to 250 ºC	
Resolution	0,1 ºC	
Temperature fluctuation	± 1.0 ºC	
Maximum vacuum	<= 133 Pa (1.33 mbar)	
Vacuum gauge range	From 0 to -0,1 MPa (from 0 to -15 psi)	
Dimensions (cm)		
internal	30x30x27,5 cm	41,5x37x34,5 cm
external	58x45x45 cm	72x52,5x53,5 cm
Power	220 V / 50 Hz	

JBP - Muffle furnaces

Serie 642

1| Outer metal housing with epoxy paint protective. Inner built with low density refractory bricks and isolating fibers that provides great temperature uniformity.
2| Drop down door that allow loading and removal of the materials easily (except 642/16).
3| Digital automatic pyrometer regulation, microprocessor, alarm, PID parameters and non-volatile memory.
4| Accessories: regulation ramps: 1 program of 8 steps or 4 programs of 16 steps; smoke extractor chimney, forced smoke extractor chimney.

Code	JBP001	JBP002	JBP003	JBP004	JBP005
Model	642/3	642/6	642/8	642/12	642/16
Capacity	3.6 L	6 L	7.6 L	12 L	18 L
Maximum temperature			1200ºC		
Tªmax limited working			1100ºC		
Potency (W)	1200W	2000W	3800W	3800W	4500W
Thermocouple			K Type		
Control			Digital		
Heater			Thread Kanthal AF		
Heating place	2	3	3	2	3
Door	Down	Down	Down	Down	Side
Controller	Bottom	Bottom	Bottom	Bottom	Side
Dimensions					
interior (AxAnxF)	12x15x20 cm	15x20x20 cm	16x20x24 cm	20x25x28 cm	23x26x30 cm
exterior (AxAnxF)	45x35x43 cm	40x50x45 cm	50x55x55 cm	49x44x50 cm	60x70x60 cm
Voltage (V)			220V		
Weight (kg)	30 Kg	45 Kg	45 Kg	45 Kg	60 Kg

JDB - Water/Oil baths, analogical

Water and oil baths "Termobat"

1| Adjustable temperature from ambient+5 °c to 110 °c. Stability ±2 °c to 200 °c. Stability ±3 °c.
2| Tank interior made of AISI 304 stainless steel,with an epoxy coated base.

Code	JDB503	JDB504
Maximum temp	110 °C	200 °C
Capacity	11 L	11 L
Ø (usable) xHeight	29x17 cm	29x17 cm
Ø (exterior) xHeight	29x25 cm	29x25 cm
Power	2100 W	2100 W
Weight	5,5 Kg	5,5 Kg

Compatible accessories Termobat - NOT included with the equipment

Perforated shelf
Code JDG512

Reducing discs
Code JDG525

Code	Description
JDG512	Perforated s.s.shelf
JDG525	Reducing discs

Water and oil baths "Univeba"

1| Water bath: adjustable temperature from ambient +5 °C to 110 °C stability ±2 °C.
2| Oil bath: adjustable temperature from ambient +5 °C to 200 °C stability ±3 °C.

Code	JDB501	JDB502
Maximum temp	110 °C	200 °C
Capacity	2,5 L	2,5 L
ØxHeight	18x13 cm	18x13 cm
Exterior dimensions	19x22x27 cm	19x22x27 cm
Power	390 W	640 W
Weight	4 Kg	4 Kg

Water and oil baths "Precisterm"

1| Double skinned tank of AISI 304 stainless steel with an exterior case of AISI 304 stainless steel.
2| Heating elements embedded in INCOLOY heat and corrosion resistant stainless steel.

Code	JDB506	JDB507	JDB508	JDB509	JDB510
Max. temp.	110 °C	110 °C	110 °C	110 °C	110 °C
Capacity	2 L	5L	12L	20 L	45 L
Dimensions					
Usable	15x15x13	15x30x14	15x30x30	15x48x30	15x62x50
Exterior	20x20x27	20x37x27	20x40x42	20x58x42	22x69x62
Power	390 W	600 W	1110 W	1500 W	2400 W
Weight	3,5 Kg	6 Kg	8 Kg	10 Kg	18 Kg

CODE: JDB509
CODE: JDB510
CODE: JDB506
CODE: JDB507
CODE: JDB508

JDB - Water/Oil baths, analogical

Water and oil baths “Precisterm”

1| Double-walled reservoir made of AISI 304 stainless steel with an outer casing in AISI 304 stainless steel.
2| Integrated heating elements made of heat- and corrosion-resistant stainless steel of the INCOLOY type.

Code	JDB511	JDB512	JDB513	JDB514	JDB515
Max. temp.	200 °C	200 °C	200 °C	200 °C	200 °C
Capacity	2 L	5L	12L	20 L	45 L
Dimensions					
Usable	15x15x13	15x30x14	15x30x30	15x48x30	15x62x50
Exterior	20x20x27	20x37x27	20x40x42	20x58x42	22x69x62
Power	640 W	1110 W	1400 W	2100 W	3800 W
Weight	3,5 Kg	6 Kg	8 Kg	10 Kg	18 Kg

JDD - Water-oil baths digital

Water and oil baths “Precisdig”

1| Double skinned tank of AISI 304 stainless steel with an exterior case of AISI 304 stainless steel.
2| Heating elements embedded in INCOLOY heat and corrosion resistant stainless steel.

Code	JDD531	JDD532	JDD533	JDD534
Max. temp.	99,9 °C	99,9 °C	99,9 °C	99,9 °C
Capacity	5 L	12 L	20 L	45 L
Dimensions				
Usable	15x30x14cm	15x30x30cm	15x48x30cm	15x62x50cm
Exterior	20x37x27cm	20x40x42cm	20x58x42cm	20x69x62cm
Power	600 W	1100 W	1500 W	2400 W
Weight	6 Kg	8 Kg	10 Kg	18 Kg

Code	JDD535	JDD536	JDD537
Max. temp.	99,9 °C	99,9 °C	99,9 °C
Capacity	12 L	20 L	45 L
Dimensions			
Usable	15x30x30cm	15x48x30cm	15x62x50cm
Exterior	40x40x42cm	40x58x42cm	40x69x62cm
Power	1100 W	1500 W	2400 W
Weight	8 Kg	10 Kg	18 Kg

Sand baths “Combiplac-Sand”

1| Electronic energy heater controller.
2| The steel hotplate surface has an evenly distributed heater element providing homogeneous heat distribution.

Code	JDB516	JDB517
Dimensions		
Usable	5x18x38 cm	5x30x30 cm
Exterior	18x22x41 cm	21x32x35 cm
Power	2300 W	2800 W
Weight	13 Kg	15 Kg

JDD - Water-oil baths digital

Digital water bath

1| New design of stainless steel inner tank made in a single piece free of welds, coupled to an outer metal cabinet with epoxy coating.
2| Acoustic signal at the end of the selected time, in continuous mode or in scheduled periods. Acoustic signal indicating bath overheating (>5ºC above the selected temperature).
4| Electric drainage pump with drainage outlet (except model 601/3).
5| Removable lid with holes and reducing rings. Support tray covering the heating element.

Code	JDD001	JDD002	JDD003	JDD004
Model	601/3	601/5	601/12	601/19
Capacity	3 L	5 L	12 L	19 L
Temperature range	RT+5-100ºC			
Resolution	0.1 ºC			
Timer	1 - 9999 min			
Holes	1	2	4	6
Dimensions (mm)	160x160x130	300x150x150	320x300x150	500x300x150
Weight	3 kg	4 kg	6 kg	8 kg

Digital oil bath

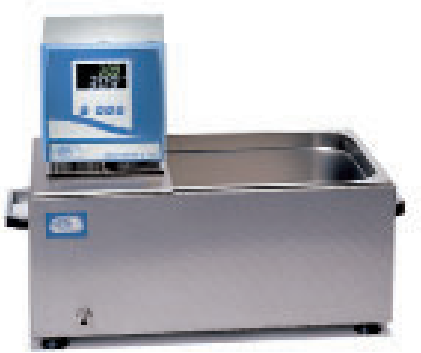
1| Stainless steel tank in a single piece free of welds, coupled to an exterior metal cabinet with epoxy coating.
2| Acoustic signal at the end of the selected time, in continuous mode or in scheduled periods. Acoustic signal indicating bath overheating (>5ºC above the selected temperature). Removable lid with holes and reducing rings. Support tray covering the heating element.

Code	JDD005	JDD006
Model	602/3	602/5
Capacity	2,5 L	5 L
Temperature range	RT+5-200ºC	
Resolution	0,1ºC	0,1ºC
Timer	1 - 9999 min	1 - 9999 min
Holes	1	2
Dimensions*	145x130x100 mm	295x145x100 mm
Weight	4 kg	7 kg

** approx. useful dimensions*

Bath circulators "Digiterm-S-150"

1| Cuvettes set of 20 and 27 l. capacity, with thermostatic equipment included. For temperatures from amb+5 to 150 °c.Stability: ±0,1 °c. resolution: 0.1 °c.



Code	JDD513	JDD514
Temp range	150 ºC	150 ºC
Capacity	20 L	27 L
Dimensions		
Interior	15x30x29 cm	20x30x29 cm
Exterior	36x55x35 cm	41x55x35 cm
Pump		
Pressure	150 mbar	150 mbar
Pump rate	12 l/min	12 l/min
Power	2000 W	2000 W
Weight	9,2 Kg	10,8 Kg

JDD - Water-oil baths digital

Bath circulators “Digiterm-TFT-200”

1| With immersion thermostat digiterm-tft-200.
2| Cuvettes set of 20 and 27 l. From ambient +5 °c to 200 °c. stability ±0.1 °c. set error ±2 °c. resolution 0.1 °c.

Code	JDD515	JDD516
Temp range	200 ºC	200 ºC
Capacity	20 L	27 L
Dimensions Interior	15x30x29 cm	20x30x29 cm
Dimensions Exterior	36x55x35 cm	41x55x35 cm
Pump		
Pressure	150 mbar	150 mbar
Pump rate	12 l/min	12 l/min
Power	2060 W	2060 W
Weight	10 Kg	12 Kg

Compatible accessories Digiterm - Not included wit the equipment

Code	Description
JDL501	Support-frame thermostat baths
JDL502	Constant level for cuvettes 20 cm
JDN504	Thermostat inmers.Digiterm S-150
JDN505	Thermostat inmers.digiterm TFT-200

Viscometer Precision Bath “VB-1423”

1| For controllable temperatures from amb.+5 °C to 100 °c. stability ±0.1 °C. homogeneity ±0.1 °C. reading error ±0.09 °C. resolution 0.1 °C.
2| Temperature sensor PT100 thermo-resistor, stainless steel aisi 304 lid with three viscometer locations ports, three independent lids and an additional location port for the control thermometer.

Code	JDD522
Control range	amb.+5ºC up to 100 ºC
Capacity	20 L
Height / Ø	
Tank	32x30 cm
Total	47x30 cm
Power	1000 W
Weight	8 Kg

JDG - Water/Oil baths, accessories

Refrigeration units FRIGEDOR and FRIGEDOR-REG

1| Device designed to cool liquids in thermostatic baths when a temperature lower than ambient is needed. For temperatures -20°C to +20°C. Epoxy-coated outer casing.
2| Equipped with a hermetic compressor, ventilated condenser, and refrigeration coil made of stainless steel AISI 304. Cord length: 900 mm. Coil Ø: 45 mm. Coil length: 150 mm.
3| FRIGEDOR model: Without temperature regulator. Continuous compressor operation. Main switch with indicator light.
4| FRIGEDOR-REG model: Equipped with an electronic temperature controller with digital display. Includes Pt 100 sensor. Resolution: 1 digit. Main switch with indicator light. Digital electronic temperature regulator. Connection for Pt 100 sensor.

Code	JDG528	JDG530
Temperature	Fixed at 20 ºC	-20 to +20 ºC
Stability	-	± 1,5 ºC
External dimensions (height x width x depth)	41x21x34 cm	41x21x34 cm
Power consumption	285 W	285 W
Cooling capacity at -20ºC	50 W	50 W
Weight	14 Kg	14 Kg

JDN - Immersion thermostats

Frigiterm-TFT-10" and "Frigiterm-TFT-30"

1| Maximum working volume to maintain maximum temperature: 8 litres.
2| AISI 304 stainless steel top and lid with an inner tank of AISI 304 stainless steel.
3| Complete with a pump for internal and external liquid circulation with inlet and outlet connectors.

Code	JDN507	JDN508
Model	Frigiterm 10	Frigiterm 30
Capacity	8 L	8 L
Control range	-10ºC + 100 ºC	-30 ºC + 100 ºC
Dimensions		
Usable	12x20x14 cm	12x20x14 cm
Exterior	36x66x44 cm	36x66x44 cm
Pump		
Pressure	150 mbar	150 mbar
Flowrate	12 l/min	12 l/min
Power	1150 W	1460 W
Compresser power	1/8 HP	3/8 HP
Weight	28 Kg	30 Kg

JDQ - Immersion thermostats, accessories

Methacrylate bath

1| Can with stand temperatures up to 60 ºC.

Code	Capacity	Dimensions	Thickness
JDQ501	8 L	15x18x31cm	6 mm
JDQ502	13 L	15x23x40cm	8 mm
JDQ503	30 L	20x30x50cm	8 mm
JDQ505	9,5 L	14,5x16,5x39	6 mm

Stainless steel baths.

1| Double skinned with an AISI 304 stainless steel exterior and internal bath of AISI 304 stainless steel.

Code	Capacity	Dim. usable	Dim exterior	Weight
JDQ506	9 L	15x29x22cm	20x34x28cm	3.5 Kg
JDQ507	12 L	15x30x31cm	20x37x35cm	4,3 Kg
JDQ508	20 L	15x48x30cm	20x55x35cm	6,6 Kg
JDQ509	27 L	20x48x30cm	25x55x35cm	7,6 Kg
JDQ513	45 L	15x62x50cm	23x70x56cm	11 Kg

Stainless steel baths.

1| Thermally insulated. Ideal for low temperatures. Suitable for J.P. Selecta refrigerated units.
2| Similar to our other bath but with additional internal expanded foam insulation that prevents external condensation or heat loss, working temperature range from –40ºC to +90ºC.

Code	Capacity	Dim. usable	Dim exterior	Weight
JDQ510	9 L	15x29x22cm	24x40x34cm	6 Kg
JDQ511	20 L	15x48x30cm	24x61x41cm	9 Kg
JDQ512	27 L	20x48x30cm	29x61x41cm	11 Kg

JDS - Thermoblocks

Thermoblock model 705

1| Manufactured with a metal base, rubber feet, and a plastic top cover. High-contrast black/white LCD screen.
2| Dimensions of the block holes: 70 x Ø 16.7mm. Conical bottom.
3| Easy to operate, with alarm and automatic shutdown due to overtemperature as well as rapid forced cooling.

Code	JDS010
Capacity	6x15 mL
Temperature range	RT+5 - 100ºC
Heating-up time (25º to Tª max.)	<15min
Timer	1-999 sec o 1-999 min
Sensor	PT100
Dimensions	140x115x210 mm
Weight	1,3 Kg

Mini 'T'

1| Designed in compact size. Simultaneous view of actual and programmed time and temperature on the LCD screen.
3| Various aluminum blocks (not included) available to cover a wide range of tubes (from 0.2 mL to 50 mL) and other types of containers. See table below and JVD section

Code	JDS001
Temperature range	RT+5 - 80ºC
Temp. accuracy control	0,5ºC
Screen resolution	0,1ºC
Heating time (20º to Tª max.)	<12 min
Timer	0-999 seg o 0-999 min
Approx. dimensions	110 x 150 x 80 mm
Weight	0,5 Kg

Accessories - mini 'T' metal bath blocks - NOT included with the equipment

Bloc
Code JDV001

Bloc
Code JDV002

Bloc
Code JDV003_4

Bloc
Code JDV005

Bloc
Code JDV006

Bloc
Code JDV007

Code	Capacity
JDV001	40 tubes of 0,2 mL
JDV002	24 tubes of 0,5 mL
JDV003	15 tubes of 1,5 mL

Code	Capacity
JDV004	15 tubes of 2 mL
JDV005	8 cells of 12,5x12,5 mm
JDV006	4 tubes of 15 mL
JDV007	2 tubes of 50 mL

JDS - Thermoblocks

Model 603/3

1| Simultaneous view of actual and programmed time and temperature on the LED display.
2| Various blocks (not included) available to cover a wide range of tubes (from 0.2 mL to 1.5 mL). See table below and JVD section

Code	JDS002
Temperature range	RT +5 - 100ºC
Temp. accuracy control	±0,5ºC
Screen resolution	0,1ºC
Heating time (20º to Tª max.)	<25 min
Timer	1 min – 99h 59min
Approx. dimensions	225 x 160 x 197 mm
Weight	3 Kg

Accessories - metal bath blocks model 603/3 - NOT included with the equipment

Bloc
Code JDV012

Bloc
Code JDV013

Bloc
Code JDV014

Bloc
Code JDV015

Bloc
Code JDV016

Code	Capacity
JDV012	96 tubes of 0,2 mL
JDV013	29 tubes of 0,5 mL, 32 tubes of 1,5 mL
JDV014	61 tubes of 0,5 mL
JDV015	41 tubes of 1,5 mL
JDV016	28 tubes of 12 mm Ø

Model 603/10 and 603/20

1| Simultaneous view of actual and programmed time and temperature on the LCD screen.
2| Several blocks (not included) available to cover a wide range of tubes (from 0.2 mL to 2 mL). See table below and JVD section

Code	JDS003	JDS004
Temperature range	RT+5 - 100ºC	-10ºC - 100ºC
Temp accuracy	± 0,5 ºC	± 0,5 ºC
Screen resolution	0,1 ºC	0,1 ºC
Heating time (from 20ºC to 100ºC)	<12 min	<20 min
Cooling time (from 20ºC to -10ºC)	-	<30 min
Timer	1 min – 99h 59min	
Approx. dimensions	300 x 210 x 180 mm	
Weight	2,5 Kg	4,6 Kg

Accessories - metal bath blocks model 603/10 and 603/20 - NOT included with the equipment

Bloc
Code JDV008 a JDV011

Code	Capacity
JDV008	96 microtubes of 0,2 mL
JDV009	54 microtubes of 0,5 mL
JDV010	35 microtubes of 1,5 mL
JDV011	35 microtubes of 2 mL

JDS - Thermoblocks

Thermoshaker, model 603/100

1| Simultaneous display of time, temperature and actual and programmed speed on the LCD screen.
2| You can heat and shake simultaneously or operate independently
3| Several blocks (not included) available to cover a wide range of tubes (from 0.2 mL to 2 mL).

Code	JDS005
Temperature range	RT+5 - 100ºC
Temp. accuracy control	±0,5ºC
Screen resolution	0,1ºC
Heating time (from 20ºC to 100ºC)	<20 min
Stirring speed	200-1500 rpm
Shaking Orbit	2 mm
Timer	1 min – 99h 59min
Approx. dimensions	354 x 240 x 170 mm
Weight	8,5 Kg

Accessories - metal bath blocks model 603/100 - NOT included with the equipment

Code	Capacity
JDV008	96 microtubes of 0,2 mL
JDV009	54 microtubes of 0,5 mL
JDV010	35 microtubes of 1,5 mL
JDV011	35 microtubes of 2 mL

Block bath RS-120S

1| Dry heating system for metal blocks of 150x95 mm.
2| Two operating modes: continuous or timer (1'-99h59').
3| Overheating protection.
4| Various applications thanks to the variety of interchangeable (optional) blocks.

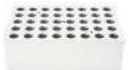
Code	JDS007
Tempreature range	Ambient to 120 ºC
Temperature accuracy (at 37º) ±0.5ºC	±0,5 ºC
Heating rate (from 20ºC to T max) 5.5 ºC/min	5.5 ºC/min
Over-temperature protection	140 ºC
Timer	1 min – 99h 59 min
Power	160 W
Dimensions	290x175x85 mm
Weight	3 Kg

Accessories - metal blocks - NOT included with the equipment

Code: JDV017
Heating block for 54 tubes of 0,2 mL

Code: JDV018
Block for 40 tubes of 0,5 mL

Code: JDV019
Block for40 tubes of 1,5 mL



Code: JDV020
Block for 40 tubes of 2 mL

Code: JDV021
Block for 28 tubes of 5/15 mL

Code: JDV022
Block for8 tubes of 50 mL

Code: JDV023
Microplate block 96/384 positions

Code: JDV024
Block 0.2 mL; 0.5 mL; 1.5/2 mL, 18 orifices of each volume

JDS - Thermoblocks

Thermoblock HC-110-Pro / HM 100-Pro / HCM100-Pro

1| Compact, programmable and overheating protection for safe sample handling.
2| Precise temperature control for heating and cooling -5 ºC to 110 ºC for all major lab applications.
3| Interchangeable sample blocks available. Most common application includes reagent warming/cooling, DNA extractions, enzymatic reactions and reactions that need to processed at or near room temperature.

Code JDS008

Code JDS009

Code JDS011

Code	JDS011	JDS008	JDS009
Functions	Heating, cooling and mixing	Heating and mixing	Heating and cooling
Temperature range	Below room temp 15º / 100 ºC	RT to 100 ºC	Below room temp 25º / 110 ºC
Temperature accuracy		± 0.5 ºC	
Max heating speed (20 ºC to T max.)		5.5 ºC/min	
Max Cooling speed			
100 ºC - RT	-	-	2.5ºC /min
below room RT	-	-	0.5ºC/min
Mixing speed	200-1500 rpm	200-1500 rpm	-
Mixing orbit	3 mm	3 mm	-
Timer		0-99 h 30 min	
Program		9	
Display		TFT	
Overheating protection		150 ºC	
Power	120-240V,50/60 Hz	200-240V,50/60 Hz	200-240V,50/60Hz
Dimensions without block (LxAxH)		235x200x120 mm	
Weight		7.3 kg	

Accessories - Inlcuded with equipment

Code JDV044

Code	Capacity	Speed	Dim. (Øxdeep)
JDV044	24x1.5 mL	1500 rpm	10,9x30,8 mm

Accessories - NOT inlcuded with equipment

Code JDV032

Code JDV033

Code JDV034

Code JDV035

Code JDV036

Code JDV037

Code JDV038

Code JDV039

Code	Capacity	Speed	Dim. (Øxdeep)
JDV032	24x0.5 mL	1500 rpm	8,1x26 mm
JDV033	24x2 mL	1500 rpm	10,9x30,8 mm
JDV034	8x5mL (round bottom)	1500 rpm	13,6x42 mm
JDV035	Bloque 8x5mL (conical bottom)	1400 rpm	17x51,5 mm
JDV036	8x15 mL	800 rpm	16,9x80 mm
JDV037	4x50 mL	600 rpm	29,6x80 mm
JDV038	8 strips PCR 0,2 mLx96	1500 rpm	5,7x13,2 mm
JDV039	Microplate ELISA	1500 rpm	127x 5 mm

JGD - Mantles without stirring

Analogical, series 655

1| External casing made of painted steel and interior thermal insulation by mineral fiber wool, they have chromonickel heating elements.
2| It has a device for holding rods. Maximum temperature: 380ºC.

Code	Capacity	Ø intern	Depth
JGD001	50 mL	55 mm	40 mm
JGD002	100 mL	70 mm	45 mm
JGD003	250 mL	90 mm	55 mm
JGD004	500 mL	105 mm	60 mm
JGD005	1000 mL	140 mm	85 mm
JGD006	2000 mL	180 mm	105 mm
JGD007	3000 mL	210 mm	115 mm
JGD008	5000 mL	240 mm	140 mm

Battery of analog heating mantles

1| Continuous operating mode with temperatures up to 450 °C on the surface of the blanket. Battery of heating blankets with individually adjustable positions. Includes an aluminum support rod and mounting clip.

Code	Capacity	Positions	Ø intern	Depth
JGD010	250 mL	4	95 mm	75 mm
JGD011	250 mL	6	95 mm	75 mm
JGD012	500 mL	4	110 mm	80 mm
JGD013	500 mL	6	110 mm	80 mm

JGB - Mantles with stirring

Heating mantle, series 656

1| External casing made of painted steel and interior thermal insulation by mineral fiber wool, they have chromonickel heating elements.
2| Maximum stirring speed: 1400 rpm. Maximum temperature: 380ºC.
3| Supplied with stirring rod, support and magnet.

Code	Capacity	Ø intern	Depth
JGB001	100 mL	70 mm	45 mm
JGB002	250 mL	90 mm	55 mm
JGB003	500 mL	105 mm	60 mm
JGB004	1000 mL	140 mm	85 mm

Digital heating mantle, series 658

1| External casing made of painted steel and interior thermal insulation by mineral fiber wool, they have chromonickel heating elements
2| Analogical regulation of the speed by means of potentiometer and digital regulation of the temperature with LED display.
3| Maximum stirring speed: 1400 rpm. Maximum temperature: 380ºC.
4| Supplied with stirring rod, support and magnet and Pt100 temperature probe.

Code	Capacity	Ø intern	Depth
JGB005	250 mL	90 mm	55 mm
JGB006	500 mL	105 mm	60 mm
JGB007	1000 mL	140 mm	85 mm
JGB008	2000 mL	180 mm	105 mm

JGD - Mantles without stirring

"Fibroman HT-W"

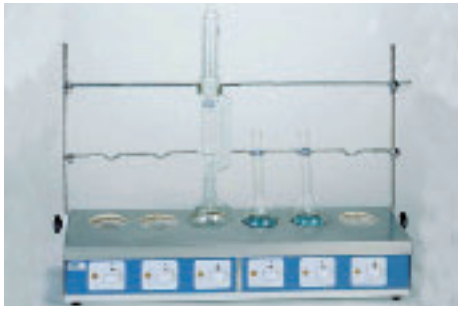
1| For adjustable temperatures from ambient +5 °c to 400 °c.
2| Stability ±0,5 to 1 °c according to temperature.

Code	Cap. mL	Ø Flask cm	Dimensions cm	Sensor Ø Leng mm	Stability ºC	Power W	Weight Kg
JGD510	100	65 to 67	13x22x26	4x170	±0.5 to 1	130	1,5
JGD511	250	83 to 87	13x26x29	4x170	±0.5 to 1	216	3
JGD512	500	102 to 105	13x26x29	4x170	±0.5 to 1	220	3,5
JGD513	1000	132 to 139	14x30x33	4x170	±0.5 to 1	500	4
JGD514	2000	164 to 170	16x31x34	4x200	±0.5 to 1	760	5

Banks of heating mantles for digestion

1| Independent heating control for each position.
2| 2 height and angle adjustable bars to support condensers or other glassware for digestion or extraction.

Code	For flask	Flask vol	Places	Dimensions	Power	Weight
JGD524	Kjeldahl / Soxhlet	300-500 mL	4	18x76x25 cm	1500 W	12 Kg
JGD525	Kjeldahl / Soxhlet	300-500 mL	6	18x105x25 cm	2200 W	16 Kg
JGD526	Micro-Kjeldahl	100 mL	4	16x59x21 cm	510 W	9 Kg
JGD527	Micro-Kjeldahl	100 mL	6	16x81x21 cm	900 W	12 Kg



JGJ - Hot plates

Round Hotplates

1| Cast steel plate with embedded heating elements throughout the plate surface.
2| Fast heating rate at maximum power setting.
3| Enamelled outer casing that is resistant to high temperatures and corrosive agents.

Code	JGJ501	JGJ502	JGJ503
Plate Ø	12 cm	15 cm	19 cm
Dimensions	8x20x20 cm	8x22x22 cm	8x26x26 cm
Power	800 W	1600 W	2100 W
Weight	2,1 Kg	3 Kg	4,5 Kg

Position hot plate digital RSLAB500-Pro

1| The body is coated with highly resistant epoxy paint..
2| Heating plate with one position and adjustable thermostat with 5 temperature settings and overheat protection. It also includes a pilot light.

Code	JGJ002	JGJ003
Average temp.	250 ºC	1500 W: 400 ºC 750 W: 250 ºC
Plate	Ø 187 mm - 1500 W	Ø 157 mm - 750 W Ø 87 mm - 1500 W
Voltaje	230 V	230 V
Power	230 V	2250 V
Weight	6,3 kg	

JGJ - Hot plates

Digital Hotplate RSLab 500-Pro

1| Glass ceramic square work plate provides excellent chemical resistance and more efficient heat transfer. LCD Display for precise monitoring of temperature.
2| Temperature control is possible by connecting an external PT1000 temperature sensor (not included). The “HOT” warning will flash when the work plate temperature is above 50ºC, even when the hotplate is turned off.
3| Data port where to insert a Micro SD card to record the running data in real time.

Code	JGJ001
Work plate dimensions (L x A)	254x254mm
Work plate material	Glass ceramic
Display (temperature, time)	LCD
Timer	1min-99h59min
Temperature range	RT-500ºC, increment 1ºC
Temperature control accuracy	±1ºC (<100ºC), ±1% (>100ºC)
Overheating protection	540ºC
Temperature readability	0,1ºC
External temperature sensor	PT1000 (±0,2ºC)
Protection class	IP21
Power	1550W
Voltage frequency	100-120/200-240V, 50/60Hz
Dimensions (LxAxH)	424x328x138 mm
Weight	6,3kg

Hotplate-Rectangular “Combiplac”

1| Electronic energy temperature control.
2| The non warping steel hotplate has heating elements embedded throughout the hotplate surface maintaining the heat distribution.
3| For adjustable temperatures on plate up to 400 ºC.

Code	JGJ506	JGJ507
Plate	20x40 cm	30x30 cm
Dimensions	12x22x55 cm	13x33x46 cm
Power	2300 W	2800 W
Weight	9 Kg	13 Kg

Rectangular hotplate “Placfin”

1| Temperature control by a hydraulic thermostat.
2| Protected thermometer from 0 °C to 130 °C.
3| Hotplate surface protected by chemically treated aluminium, with heating elements distributed throughout the hotplate’s surface.
4| For adjustable temperatures on plate from RT+5 to 130°C.

Code	JGJ513
Plate	23x22 cm
Dimensions	11x22x30 cm
Power	1500 W
Weight	3,7 Kg

JGJ - Hot plates

Bank of circular hotplates “Uniplac”

1| Independent hotplate control using pulsed energy regulators.
2| Cast steel hotplates with embedded heating elements distributed throughout the hotplate’s surface.
3| Adjustable height and angle stand bars for supporting condensers and other glassware etc.
4| For adjustable temperatures on plate up to 400°C.

Code	JGJ514	JGJ515
No Places	4	6
Plate Ø	12 cm	12 cm
Dimensions	23 77 27 cm	23 105 27 cm
Power	2200 W	3300 W
Weight	15 Kg	22 Kg

JJB - Refrigerated cabinets

Chassis with metal drawers

1| With forced air circulation. Internal air circulation turbine for greater homogeneity. For adjustable temperatures from +0°C to +15°C.
2| Pt100 sensor with probe error alarm.
3| External unit and metallic door, lacquered in white, and interior chamber made of white sheet metal with non-toxic finish.
4| Double-glazed glass door and interior light for the M model.
5| Hermetic compressor unit. Automatic defrosting with water evaporation. Adjustable front support legs.
6| Reversible door opening and door with lock. Supplied with PVC-coated steel shelves.

Code	Model	Capacity	HxLxP (interior)	HxLxP (exterior)	Consu.	Weight
JJB505	PHARMALOW-L	350 L	145x47x44	164x60x61	180	56

JJD - Refrigerated cabinets accessories

Chassis with metal drawers and shelves

1| Modular system with sliding drawers featuring perforated bottoms, each drawer divided into three fixed compartments, and each compartment equipped with four removable methacrylate dividers.

Code	For model
JJD501	PHARMALOW-S. With 4 drawers and a total of 48 dividers (maximum capacity: 6 drawers)
JJD502	PHARMALOW-L. With 5 drawers and a total of 60 dividers (maximum capacity: 10 drawers)
JJD503	Drawer supplement with 3 compartments and 12 dividers
Shelves	
JJD504	Shelf support (x4) for PHARMALOW code JJD510
JJD505	Shelf for PHARMALOW code JJD510 (for each shelf, 4 shelf guides are required)

JJG - Freezers

Chest Freezers “Combatemp”

1 | Epoxy covered external case. Interior of aluminium, with guide supports for baskets or trays.

Code	JJG501	JJG502	JJG503	JJG504
Models	S-30	L-30	S-40	L-40
Capacity	206 L	343 L	215 L	352 L
Freezing cap.	28 Kg	38 Kg	30 Kg	40 Kg
Temperature	-28 ºC	-28 ºC	-40 ºC	-40 ºC
Dimensions				
Interior	74x63x53cm	74x100x53cm	63x89x41cm	65x117x50cm
Exterior	92x75x71cm	92x113x71cm	92x113x76cm	92x137x81cm
Power	160 W	200 W	230W	400W
Weight	38 Kg	56 Kg	57 Kg	72 Kg

JZB - Heating elements

Water recirculators “Interheater”

1 | Water circulation unit, designed to feed closed water loop circuits for condensers, distillation columns, reactor jackets, viscometers, electrophoresis baths etc. designed specifically for:

- Constant temperature.
- Constant pump rate of refrigerated fluid.
- Closed loop circuit, avoids the build up of scale in cooling coils,and cooling circuits.

Code	JZB510
Dimensions	70x43x56 cm
Reg. Range	Amb + 5 to 90 ºC
Power	4100 W
Weight	22 Kg

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NAHITA-BLUE balances icons

CAL EXT — *AUTOMATIC INTERNAL ADJUSTMENR CAL:* Adjustment through internal calibration weight driven by motor.

UNDER — *UNDER WEIGHT:* Through a hook on the bottom of the scale.

FORCE — *ELECTROMAGNETIC FORCE COMPENSATION:* Coil on a permanent magnet, for the most accurate weighing

DMS — *STRAIN GAUGES*

BATT — *POWER SUPPLY BY BATTERIES:* For batteries operation, the battery type is indicated on each device.

PERCENT — *PERCENTAGE DETERMINATION:* Determination of the deviation in % from the theoretical value (100%)

UNIT — *WEIGHTING UNITS:* By pressing the unit key.

CAL INT — *AUTOMATIC INTERNAL ADJUSTMENT:* Adjustment through internal calibration weight driven by motor.

230 V — *POWER CABLE* Integrated into the EU standard 230 V/50 Hz balance.

PCS — *PIECE COUNTING:* Selectable number of references. Switching from unit display to weight display.

RS 232 — *DATA INTERFACE RS-232:* To connect the machine to a printer, computer, or network.

USB — *USB:* To connect the equipment to a printer, computer, or other peripheral device.

ACCU — *POWER SUPPLY BY ACCUMULATOR*

110/220 V — *POWER ADAPTER:* 110/220 V as standard in the EU.

KBB - Electronic, precision 1/0.1 g

Series 5171

nahita blue

1| High-precision load sensor and overload protection
2| Large, easy to read backlit LCD display
3| Plastic housing and stainless steel plate.
4| Weighing, parts counting and hook functions for bottom weighing.
5| Automatic calibration by external weight, weight included only in ref. KBB008

balances icons - series 5171

CAL EXT | DMS | UNIT | PCS | BATT | 110/220 V

Code	KBB008	KBB009	KBB010	KBB011
Capacity max. (g)	1000	2000	3000	5000
Readability (g)	0.1	0.1	0.1	0.1
Accuracy (g)	± 0,2	± 0,2	± 0,2	± 0,2
Pan size (mm)	Ø 135	Ø 135	155x143	155x143
Weighting units	g, oz, ct, lb			
Calibration weight (kg)	0.5 (Included)	1 (Not included)	2 (Not included)	2.5 (Not included)
Dimensions (mm)	265x200x80			
Power	AC110-220V / 4 battery 1.5V (AA) (Not included)			

KBB - Electrónicas, precisión 1 - 0,1 g

Series 5161

1| High-precision load sensor. Large and easy to read display with backlit LCD. Plastic housing and stainless steel plate. Polyethylene cover.
2| Weighing and counting functions. Automatic calibration by external weight (see table), weight only included in the KBB004 model. With integrated rechargeable battery.

balances icons - series 5161

Code	KBB025	KBB004	KBB005	KBB006	KBB007	KBB024
Max. capacity (g)	500	1000	2000	3000	5000	6000
Readability (g)	0.1	0.1	0.1	0.1	0.1	0.1
Accuracy (g)	± 0,2	± 0,2	± 0,2	± 0,2	± 0,2	± 0,2
Pan size (mm)	143x192					
Weighting units	g, kg, ct, T, TAR, dr, PKT, GN, TMR, gsm, tIJ, mo dwt, oz, lb, tlT, ozt, tlH, %					
Calibration weight (kg)	0.5 (included)	0.5 (included)	1 (not included)	2 (not included)	2 (not included)	2 (not included)
Dimensions (mm)	280x180x80					
Power	110-220VAC, 50/60Hz					

balances icons - series 5161-LED

Code	KBB012	KBB013
Capacity max. (g)	10000	20000
Readability (g)	0.1	
Repeatability	± 0,2 g	
Non linearity	± 0,2 g	
Pan size (mm)	337x237 mm	
Weighting units	gr, kg, lb	
Dimensions (mm)	370x370x125 mm	
Power	100-240V, 50-60 Hz / 4V4AH/20HR	

KBC - Electronical, precision 0.01 g

Series 5162

balances icons - series 5162

Code	KBC001	KBC002	KBC003	KBC004
Max capacity. (g)	300	500	1000	2000
Readability (g)	0.01	0.01	0.01	0.01
Accuracy (g)	± 0,01	± 0,01	± 0,01	± 0,01
Pan size (mm)	120x155			
Weighting units	g, kg, ct, T, TAR, dr, PKT, GN, TMR, gsm, tIJ mo, dwt, oz, lb, tlT, ozt, tlH, %			
Calibration weight(kg)	0.2 (Included)	0.5 (Included)	0.5 (Included)	1 (Not included)
Dimensions (mm)	280x180x80			
Power	110-220VAC, 50/60Hz			

KBC - Electronical, precision 0.01 g

Serie 5172

nahita blue

1| High-precision load sensor and overload protection.
2| Large, easy to read backlit LCD display. Plastic housing and stainless steel plate.
3| Weighing and piece counting.
4| Automatic calibration by external weight, included except for references KBC008 and KBC009.

balances icons - series 5172

Code	KBC005	KBC006	KBC007	KBC008	KBC009
Max. capacity (g)	300	500	1000	3000	5000
Legibility (g)	0.02				
Accuracy (g)	± 0,01				
Pan size (mm)	155x143				
Weighting units	g, oz, ct, lb				
Calibration weight (kg)	0.2 (Incl.)	0.5 (Incl.)	0.5 (Incl.)	2 (No incl.)	3 (No incl.)
Dimensions (mm)	265x200x80				
Power	110-220VAC / 4 batteries 1.5V (AA) (Not included)				

KBD - Electronical, precision 0.001 g

Series 5133

nahita blue

1| Electromagnetic force compensation technology.
2| Adjustment of the sensitivity level and weighing speed. Overload protection.
3| Large, easy-to-read backlit LCD display.
4| Aluminium housing and stainless steel plate.
5| Weighing, parts counting, percentage and hook functions for lower weighing.
6| Automatic calibration by external weight (included). RS232 and USB outputs.

balances icons - series 5133

Code	KBD001	KBD002	KBD003
Accuracy Class	Class II	Class II	Class I
Max capacity. (g)	100	300	500
Min capacity (g)	0.020	0.020	0.020
Readability (g)	0.001	0.001	0.001
Value verification scale (g)	0.01		
Repeatability (g)	±0.001		
±0.5e	0 ≤ m ≤ 5000		
±1.0e	5000 ≤ m ≤ 20000		
±1.5e	20000 < m		
Stabilization time (s)	≤5		
Pan size (mm)	Ø 90		
Weighting units	g, mg, ct, oz		
Calibration weight (kg)	0.1 (inclu.)	0.2 (inclu.)	0.2 (inclu.)
Total dimensions (mm)	340x215x350		
Power	110-220VAC, 50/60Hz		

KBD - Electronical, precision 0.001 g

Series 5173

1| High-precision load sensor and overload protection
2| Aluminium housing and stainless steel plate.
3| Large, easy to read backlit LCD display.
4| Weighing, parts counting and hook functions for bottom weighing.
5| Automatic calibration by external weight (included).

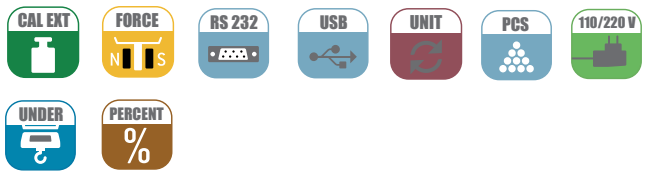
balances icons - series 5173

Code	KBD004	KBD005
Max capacity. (g)	100	300
Readability (g)	0.001	0.001
Repeatability (g)	±0.002	±0.002
Linearity (g)	±0.002	±0.002
Error (g)	±0.002	±0.002
Stabilization time (s)	1-1.5	
Pan size (mm)	90	
Weighting units	g, ct, oz, lb, ozt	
Calibration weight(kg)	0.05 (Included)	0.2 (Included)
Total dimensions (mm)	295x192x280	
Power	220-240VAC/50Hz	

Serie 5183

1| Micro analytical balances have a removable antistatic screen with high brightness for better data visualization..
2| It has an electromagnetic force load cell, automatic external calibration and a personalized weighing unit. External calibration and internal calibration models available (5144 and 5183 series).
3| With bidirectional RS232/USB interface to export data to any spreadsheet, integrated autonomous dual program.
4| Very fast weighing speed and high precision.
5| With spirit level, adjustable feet for leveling and glass hood with sliding side and top doors.
6| Hydrostatic weighing from the bottom of the balance.

balances icons - series 5183



Code (ext. calibration)	KBD015	KBD016	KBD017
Code (int. calibration)	KBD018	KBD019	-
Volume	500 g	1000 g	2000 g
Readability	1 mg		
Stabilization time	1-2 s		
Preheating time	30-60 min		
Units of weight	g/oz/ct/mg		
Min. weight	5 mg		
Repeatability	±1 mg		
Linearity	±2 mg		
Interface	RS232/USB		
Pan size	Ø 90 mm	Ø 110 mm	Ø 110 mm
Weight	6,5 kg		
Power	FTE AC 110-240V; 9VDC 2A		

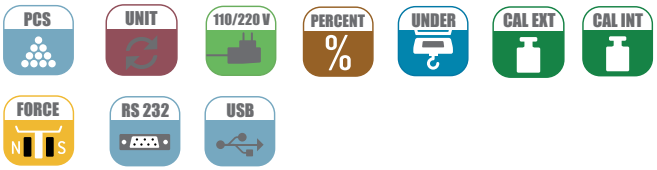
KBF - Analytical, precision 0.0001 g

Series 5134

nahita blue

1| Electromagnetic force compensation technology.
2| Adjustment of the sensitivity level and weighing speed.
3| Overload protection. Large, easy-to-read backlit LCD display.
4| Aluminium housing and stainless steel plate. Weighing, parts counting, percentage and hook functions for lower weighing.
5| Automatic calibration by external weight (included) or internal depending on the model.

balances icons - series 5134



Series 5134 EX; External calibration	KBF001	KBF003
Series 5134 INT; Internal calibration	KBF002	KBF004
Accuracy Class	Class I	Class I
Max capacity. (g)	120	220
Min capacity (g)	0,010	0,010
Readability (g)	0.0001	0.0001
Scale verification value (g)	0.001	
Repeatability (g)	±0.0002	
±0.5e	0≤m≤50000	
±1.0e	50000 <m≤200000	
±1.5e	20000 <m	
Stabilization time (s)	≤8	
Pan size (mm)	Ø 80	
Weighting units	g, mg, ct, oz	
Total dimensions (mm)	340x215x350	
Power	110-220VAC, 50/60Hz	

Serie 5144

nahita blue

1| Balances have a removable antistatic screen with high brightness for better data visualization.
2| It has an electromagnetic force load cell, automatic external calibration and a personalized weighing unit. External calibration and internal calibration models available (5144 and 5183 series).
3| With bidirectional RS232/USB interface to export data to any spreadsheet, integrated autonomous dual program.
4| Very fast weighing speed and high precision.
5| With spirit level, adjustable feet for leveling and glass hood with sliding side and top doors.
6| Hydrostatic weighing from the bottom of the balance.

Code (ext. calibration)	KBF010	KBF011	KBF012
Code (int. calibration)	KBF013	KBF014	KBF015
Capacity	120 g	320 g	520 g
Readability		0,1 mg	
Stabilization time	1,5 s	2,5 s	2,5 s
Preheating time		30-60 min	
Units of weight		g/oz/ct/mg	
Min. weight		1 mg	
Repeatability	±0,1 mg	±0,2 mg	±0,2 mg
Linearity	±0,2 mg	±0,3 mg	±0,3 mg
Interface		RS232/USB	
Pan size		Ø 90 mm	
Weight		6,5 kg	
Power	FTE AC 110-240V; 9VDC 2A		

KBH - Pocket balances

Series 5043

1| Compact and robust design with protective cover.
2| Backlit touch screen for easy reading
3| Stainless steel weighing pan.
4| Weighing, parts counting and tare function by direct access key.
5| One-point calibration (calibration weight not included).

Code	KBH001	KBH002	KBH003
Capacity (g)	100	200	500
Readability (g)	0.01	0.01	0.01
Pan size (mm)		60x60	
Weighting units		g, ct, dwt, oz, ozt	
Calibration weight	0,1 kg	0.2 kg	-
Dimensions (mm)		70x115x20	
Power		2 battery 1.5 V (AAA)	

KBK - Analitycal, precision 0.00001 g

Series 5145

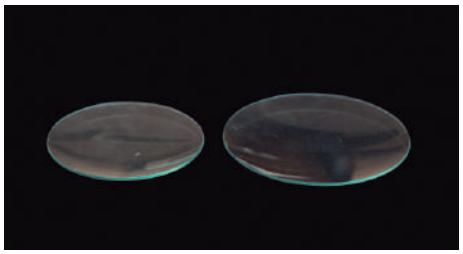
1| Micro analytical balances have a removable antistatic screen with high brightness for better data visualization.
2| It has an electromagnetic force load cell, automatic external calibration and a personalized weighing unit.
3| With bidirectional RS232/USB interface to export data to any spreadsheet, integrated autonomous dual program.
4| Very fast weighing speed and high precision. With spirit level, adjustable feet for leveling and glass hood with sliding side and top doors. Hydrostatic weighing from the bottom of the balance.

balances icons - series 5145

Code	KBK002
Capacity	200 g
Readability	0,01 mg to 51 g and 0,1 mg to 200 g
Repeatability	±0,03 mg / ±0,1mg
Linearity	±0,03 mg / ±0,2 mg
Min. weight	0,5 mg / 1mg
Plate diameter	90 mm
Units of weight	g / oz / ct / mg
Weight	6,5 kg
Power	110-240VAC; 9VDC 2A

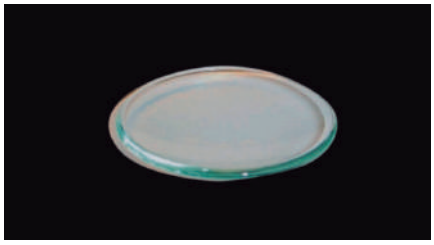
KBN - Weighing accessories

Watch glass, ground edge



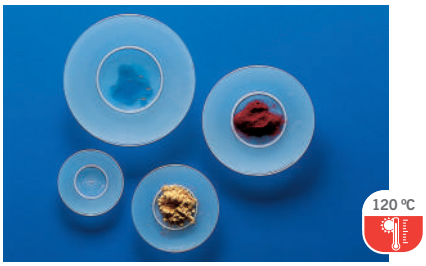
Code	Diameter (mm)	Lot
KBN001	45	10
KBN002	50	10
KBN003	60	10
KBN004	70	10
KBN005	80	10
KBN006	90	10
KBN007	100	10
KBN008	120	10
KBN009	150	10
KBN010	180	10

Watch glass, burnt edge



Code	Diameter (mm)	Lot
KBN011	40	10
KBN012	50	10
KBN013	60	10
KBN014	70	10
KBN015	80	10
KBN016	100	10
KBN017	120	10
KBN018	140	10
KBN019	160	10
KBN059	200	10

Watch glasses, PP



1| Equipped with a support base that prevents it from turning.

Code	Diameter (mm)	Lot
KBN030	60	10
KBN031	75-80	10
KBN032	100	10
KBN033	125	10

KBN - Weighing accessories

Watch glasses, PTFE

1| Excellent chemical and mechanical resistance. Will withstand temperatures up to +260ºC and for short intervals up to +340ºC.

Code	Diameter (mm)
KBN065	60
KBN066	80
KBN067	100
KBN068	120
KBN069	150

1| Exceptional chemical and thermal resistance.

Code	Diameter (mm)
KBN034	52
KBN035	76
KBN036	99
KBN037	126
KBN038	153

Weighing bottles

1| Lightweight, autoclavable and reusable. Airtight snap-on lid. Optimum acid resistance.

Code	Cap.	Dim. (ØxH)	Tare	Lot
KBN023	23 mL	30x48 mm	8 g	10
KBN024	20 mL	40x29 mm	8 g	10
KBN025	60 mL	40x69 mm	14 g	10
KBN026	30 mL	49x29 mm	10 g	10
KBN027	50 mL	59x34 mm	18 g	10
KBN028	190 mL	59x88 mm	28 g	10
KBN029	360 mL	70x118 mm	40 g	10

KBN - Weighing accessories

Code	Cap.	Dim. (ØxH)t
KBN515	65 mL	60 x 40 mm
KBN516	50 mL	30 x 50 mm
KBN517	65 mL	35 x 60 mm
KBN518	200 mL	90 x 60 mm

Weighing trays

Code	Cap.	Colour	Dim. (mm)	Pack
Square				
KBN039	7 mL	White	43x43x8	B/1000
KBN040	100 mL	White	78.5x78.5x23	B/1000
KBN041	250 mL	White	134x134x23	B/1000
Rhomboidal				
KBN042	5 mL	White	31x53x5.3	B/1000
KBN044	30 mL	White	56x85x14.5	B/500
KBN045	30 mL	Black	56x85x14.5	B/500
KBN046	100 mL	White	96x134.5x18.5	B/250
KBN047	100 mL	Black	96x134.5x18.5	B/250

KBP - Spring balances

Plastic

Code	Range	Sensibility
KBP003	250 g / 2.5 N	5 g / 0.05 N
KBP004	500 g / 5 N	10 g / 0.1 N
KBP005	1000 g / 10 N	20 g / 0.2 N
KBP006	2000 g / 20 N	50 g / 0.5 N
KBP007	3000 g / 30 N	50 g / 0.5 N
KBP008	5000 g / 50 N	100 g / 1 N

KBQ - Mechanicals

Roberval series 5001

1| Oven-painted steel with treated steel blades and agate bearings
2| Frontal scale for additions from 5g to 50g (depending on model).Weight set included.

Code	KBQ003	KBQ004
Capacity (g)	1000	2000
Readability (g)	1	2
Scale range (g)	0-10	*
Scale division (g)	1	-
Pan size (mm)	Ø 134	Ø 170
Dimensione (cm)	35x14x20	40x18x30

** No front scale*

Equal-arm balances

1| Weighing system in steel with treated steel blades and blocking system. Removable for storage (wooden box included). Includes a complete set of weights.

Code	KBQ005
Cap./Sensibility (g)	100 / 0.02
Pan size (mm)	Ø 80
Dimensions (mm)	300x160x80

Monoplate balance 4 beams

1| Light metal casting, with agate bearings and hardened steel blades.
2| It has 4 arms with sliding weights of 100g, 10g, 1g and 0.1g
3| With platform for hydrostatic weighing. With magnetic cushioning

Code	KBQ006
Capacity (g)	311
Sensibility (g)	0.01
1a beam	1g divided each 0.01g
2a beam	10g divided each 1g
3a beam	100g divided each 10g
4a beam	200g divided each 100g
Pan size (mm)	Ø100
Dimensions (mm)	420x180x360

KBQ - Mechanicals

Monoplate balance 3 beams

1| Light metal casting, with agate bearings and hardened steel blades.
2| It has 3 arms with sliding weights.
3| Incorporates a support for additional weights supplied with the equipment:
- 2 weights of 295g that increase the capacity by 1000g.
- 1 weight of 147.5g that increases in 500g the capacity.
4| With magnetic cushioning

Code	KBQ007
Capacity (g)	610 || 2610, with aditional weights
Sensibility (g)	0.1
1a beam	10g divided each 0.1g
2a beam	500g divided each 100g
3a beam	100g divided each 10g
Pan size (mm)	150 mm
Dimensions (mm)	420x180x360

KBR - Mechanical, weight set

Set of weights, 200 g

Code	KBR001	
Composed of	1 weight of 100 g	1 weight of 10 g
	1 weight of 50 g	1 weight of 5 g
	2 weight of 20 g	1 clamp

Set of weights, 500 g

Referencia	KBR002	
Composed of	1 weight of 200 g	2 weight of 20 g
	2 weight of 100 g	1 weight of 10 g
	1 weight of 50 g	1 clamp

KBR - Mechanical, weight set

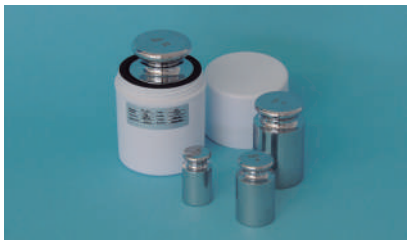
Set of weights, 1000 g

Code	KBR003	
Composed of	1 weight of 500g	1 weight of 50 g
	1 weight of 200g	2 weight of 20 g
	2 weight of 100g	1 weight of 10 g

Set of weights, 2000 g

Code	KBR004	
Composed of	1 weight of 1 kg	1 weight of 50 g
	1 weight of 500 g	2 weight of 20 g
	1 weight of 200 g	1 weight of 10 g
	2 weight of 100 g	

KBS - Weights E2



1| High-precision test and adjustment weights for high-resolution analytical balances in verification class I with a maximum resolution of more than 100,000 d. Made of non-magnetic stainless steel
2| Supplied with individual storage box.

Code	Weight (nominal value)	Tolerance (mg)
KBS002	1 g	± 0.03
KBS003	2 g	± 0.04
KBS004	5 g	± 0.05
KBS005	10 g	± 0.06
KBS006	20 g	± 0.08
KBS007	50 g	± 0.10
KBS008	100 g	± 0.15
KBS009	200 g	± 0.30
KBS010	500 g	± 0.75
KBS011	1 Kg	± 1.50
KBS012	2 Kg	± 3.00
KBS013	5 Kg	± 7.50
KBS014	10 Kg	± 15.00
KBS015	20 Kg	± 30.00
KBS001	Set 12 fractions E2 of 500mg to 1mg**	-----

*** Set of fractions: 1x1mg, 2x2mg, 1x5mg, 1x10mg, 2x20mg, 1x50mg, 1x100mg, 2x200mg and 1x500mg.*

KBT - Weights E2

1| High-precision weights indicated for control, calibration and adjustment of analytical balances in verification class I, with a maximum resolution of approximately 100,000 d
2| Made of stainless steel. Supplied with individual storage box.

Code	Weight (nominal value)	Tolerance (mg)
KBT002	1 g	± 0.10
KBT003	2 g	± 0.12
KBT004	5 g	± 0.15
KBT005	10 g	± 0.20
KBT006	20 g	± 0.25
KBT007	50 g	± 0.30
KBT008	100 g	± 0.50
KBT009	200 g	± 1.00
KBT010	500 g	± 2.50
KBT011	1 Kg	± 5.00
KBT012	2 Kg	± 10.00
KBT013	5 Kg	± 25.00
KBT014	10 Kg	± 50.00
KBT015	20 Kg	± 100.00
KBT001	Set 12 fractions F1 from 500 mg to 1mg**	-----

*** Set of fractions: 1x1mg, 2x2mg, 1x5mg, 1x10mg, 2x20mg, 1x50mg, 1x100mg, 2x200mg and 1x500mg.*

KBV - Weights F2

1| High-precision weights suitable for high-precision scales in verification class II, with a maximum resolution of up to approx. 50,000 d
2| Made of stainless steel. Supplied with individual storage box.

Code	Weight (nominal value)	Tolerance (mg)
KBV002	1 g	± 0.3
KBV003	2 g	± 0.4
KBV004	5 g	± 0.5
KBV005	10 g	± 0.6
KBV006	20 g	± 0.8
KBV007	50 g	± 1.0
KBV008	100 g	± 1.5
KBV009	200 g	± 3.0
KBV010	500 g	± 7.5
KBV011	1 Kg	± 15.0
KBV012	2 Kg	± 30.0
KBV013	5 Kg	± 75.0
KBV014	10 Kg	± 150.0
KBV015	20 Kg	± 300.0
KBV001	Set 12 fractions F2 from 500 mg to 1mg	-----

*** Set of fractions: 1x1mg, 2x2mg, 1x5mg, 1x10mg, 2x20mg, 1x50mg, 1x100mg, 2x200mg and 1x500mg.*

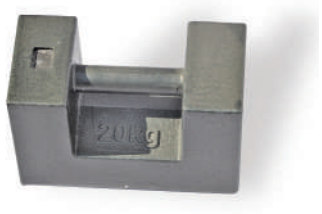
KBW - Weights M1

1| Precision weights for commercial and industrial scales in verification class III, with a maximum resolution of up to 10,000 d.
2| Made of A3 steel. Supplied with individual storage box.

Code	Weight (nominal value)	Tolerance (mg)
KBW001	Set 12 fractions M1 of 500mg to 1mg**	-----
KBW002	1 g	± 1.0
KBW003	2 g	± 1.2
KBW004	5 g	± 1.5
KBW005	10 g	± 2.0
KBW006	20 g	± 2.5
KBW007	50 g	± 3.0
KBW008	100 g	± 5.0
KBW009	200 g	± 10.0
KBW010	500 g	± 25.0
KBW011	1 Kg	± 50.0
KBW012	2 Kg	± 100.0
KBW013	5 Kg	± 250.0
KBW015	10 Kg	± 500.0
KBW017	20 Kg	± 1000.0

*** Set of fractions: 1x1mg, 2x2mg, 1x5mg, 1x10mg, 2x20mg, 1x50mg, 1x100mg, 2x200mg and 1x500mg.*

Block Weight class M1



1| According to OIML-R111.
2| Made of painted cast iron.
3| Density 7.2g/cm^3.

Code	Weight (nominal value)	Tolerance (mg)
KBW014	5 Kg	±250
KBW016	10 Kg	±500
KBW018	20 Kg	±1000

Certification ENAC for weights

Code	Description
KBS016	ENAC E2, from 1 mg to 500 g
KBT016	ENAC F1 from 1 mg to 10 kg
KBV016	ENAC F2, from 1 mg to 10 kg
KBW019	ENAC M1, from 1 mg to 10 kg

KCD - Analyzer

Halogen Moisture Analyzer

1| Easy-to-use and intuitive moisture analyzer with 5-inch high-definition touch screen. Silent double action opening. It has an RS232 port to connect a printer. Possibility to print up to 9 data log groups stored in memory. Equipped with a level gauge and two adjustable leveling feet to compensate for slight unevenness on the operating table.
3| Includes:
- 100 g weight
- 50 g weight
- 20 g weight
- 180 mm long metal clamp

Code	KCD001
Maximum weighing value	100g (readability 0,001 g)
Readability of moisture content	0,01%
Moisture measurement accuracy	±0,5% (for samples = 3 g)
Temperature adjustment tolerance	±1ºC
Temperature range of analysis	50ºC - 180 ºC
Analysis time range	0 - 99 min
Sample drying parameters	9 types
Moisture content measurement range	0 - 100%
Communication	RS232 port
Weighing pan size	Ø 100 mm
Heat source	High-efficiency halogen lamp
Ambient relative humidity	50 - 75% (non-condensing at 30ºC)
Dimensions (LxAxH)	350x185x140 mm
Weight	3 kg
Power	220VAC, 50 Hz

KDB - Testers

Mini pH-tester

1| Ideal for laboratory and field practice. With two-point calibration.

Code	KDB003
Range	0-14 pH
Resolution	0.01 pH
Accuracy	± 0.05 pH
ATC	0-60 ºC
Dimensions (mm)	150x29x15
Power	4 batteries x 1.5V

KDB - Testers

pH pocket tester, Premium series

1| Parameters: pH, ORP, Temperature. With different types of replaceable and interchangeable electrodes. With automatic temperature compensation.
2| Triple colour backlit display with indicative icons. IP67 water and dust resistant. Compatible probes: KDG014 (bulb glass), KDG015 (flat), KDG016 (spear).

Code	KDB004	KDB005	KDB006
Parameter	pH/ORP/ºC	pH/ORP/ºC	pH/ORP/ºC
Range	-2.00-16.00 pH ±1000 mV ORP 0-50ºC	-2.00-16.00 pH ±1000 mV ORP 0-50ºC	-2.00-16.00 pH ±1000 mV ORP 0-50ºC
Accuracy	±0.01 pH ±0.2%Fs	±0.01 pH ±0.2%Fs	0.01 pH / ±0.01 ±0.2%Fs
Calibration	1 to 3 points	1 to 3 points	1 to 3 points
Electrode	Bulb glass	Flat	Spear

pH pocket tester, Smart series

1| New generation smart analysers, the Smart Series enables recording of measured parameters on mobile devices (Android or iOS) using the ZenTest application via Bluetooh 5.0.
2| Compatible probes: KDG017 (bulb glass), KDG018 (flat), KDG019 (spear) and KDG044* (ORP electrode).

Code	KDB007	KDB008	KDB009
Parameter	pH/ORP/ºC	pH/ORP/ºC	pH/ORP/ºC
Range	-2.00-16.00 pH ±1000 mV ORP 0-50ºC	-2.00-16.00 pH ±1000 mV ORP 0-50ºC	-2.00-16.00 pH ±1000 mV ORP 0-50ºC
Accuracy	±0.01 pH ±0.2%Fs	±0.01 pH ±0.2%Fs	0.01 pH / ±0.01 ±0.2%Fs
Calibration	1 to 3 points	1 to 3 points	1 to 3 points
Electrode	Bulb glass	Flat	Spear

KDB - Testers

Digital pocket pH meter

1| It is not necessary to keep the electrode immersed in 3M KCl.
2| Automatic temperature compensation. Buttons for: ON/OFF switch, HOLD button, CAL button for calibration.
3| Acidic or basic pH range calibration. 3-point calibration. Includes carrying case, manual and 3 sachets of pH 4.01, 6.86 and 9.18 pH buffer solutions. 6.86 and 9.18.

Code	KDB011
Display	LCD
Replaceable electrode	Code KDG046
Range	0,00 – 14,00 pH
Resolution	0,01 pH / 0,1 pH *(can be changed)* 0,1 ºC / 0,1 ºF
Accuracy	± 0,05 pH
Power	3 button cell bateries type 1,5V LR44 *(included)*
Operating temperature	0ºC~50ºC (32~122ºF)

pH pocket tester Premium

1| Replaceable combined probe design. Multi-color backlight display, easy to read data in diferent modes.
2| Buffers solutions: CH, USA, NIST standards are selectable. Auto shut-off time, customized backlight display time. Supplied with standard solution, sample vials and lanyard for convenient field test.
3| Protection class IP67.

Code	KDB012	KDB013
Model	DPH1	DPH1+
Bluetooh conexion	-	Yes
Parameter	pH/ORP/ºC	
Range	-2.00-16.00 pH; ±1000 mV ORP; 0-50ºC	
Accuracy	±0.01 pH; ±0.1%Fs	
Power	3x1,5V AAA *(included)*	
Calibration	1 to 3 points	
Electrode	DPH1-S standard; DORP1-S optional	

KDB - Testers

pH pocket tester PH20

1| Easy Auto. calibration; Auto. Temp. Compensation (ATC) ensures accuracy in variant temperatures (32-122˚F).
2| Complete kit with ready-to-use calibration solutions, batteries, and a lanyard in a rugged carrying case
3| IP67 waterproof protection.

Code	KDB014
Range	0,00 – 14,00 pH; 0-50 ºC
Resolution	0,1 pH; 0,1 ºC
Calibration	Automatic 1 to 3 points
Power	4xAAA batteries; DC3V
Electrode	Bulb (glass)

KDD - Laboratory pH-meters

Portable pH-meter, 850 series

1| Supplied with pH combination electrodes with integrated temperature probe. Automatic temperature compensation (electrode KDG021).
2| Large LCD display with automatic locking and shut-off.

Code	KDD007
Model	pH850
Parameters	pH/mV/Temp
pH	
Range	0-14
Resolution	0.1/0.01 pH
Accuracy	±0.01 pH ± 1 digit
Temp. compensation	0-100ºC
Calibration	1 to 3 points (USA/NIST)
mV	
Range	±1000 mV
Resolution	1 mV
Accuracy	± 0.2% FS ± 1 digit
Temperature	0 – 100ºC

KDD - Laboratory pH-meters

Benchtop meters, 700 series

APERA INSTRUMENTS

1| Equipped with long-lasting 3-in-1 pH combination electrode and conductivity combination electrode, with integrated temperature probe
2| Automatic recognition of 6 types of pH standard solutions. Electrode: KDG021

Code	KDD008
Model	pH700
Parameters	pH/mV/°C
pH	
Range	0 – 14 pH
Resolution	0.1/0.01 pH
Accuracy	±0.01 pH ± 1 digit
Temp. compensation	0-100ºC
Calibration	1 to 3 automatic points
mV	
Range	± 1999 mV
Resolution	1 mV
Accuracy	±0.1 % FS ± 1 digit
Temperature	0 – 100ºC

Benchtop meters, 820 series

APERA INSTRUMENTS

1| They are supplied with a long-life premium glass pH electrode and a brush-resistant plat num back (BPB) conductivity and temperature combination electrode.
2|Their intelligent processor automatically recognises up to 15 types of pH buffer solutions and up to 8 types of conductivity standard solutions. BNC connector for pH electrode and RCA for temperature. Compatible electrodes: KDG022 (pH routine electrode) and KDG039 (Temperature probe).

Code	KDD009
Parameters	pH/mV/°C
pH	
Range	-2.000 – 19.999 pH
Resolution	0.1/0.01/0.001 pH
Temp. compensation	0-100ºC
Calibration	1 to 5 automatic points
mV	
Range	± 1999 mV
Resolution	1 mV
Accuracy	±0.1 % FS ± 1 digit
Temperature	0 – 100ºC

KDD - Laboratory pH-meters

Portable pH/mV/Temperature meter

Hanna

1| pH meter with advanced electronic technology and high quality components. Very constant and highly accurate measurements. Calibration at one or two points.
2| The instrument is supplied in a plastic case including: 1 bottle of 6.86ph solution and 1 bottle of 4.003ph solution, 1 pH electrode (gel-filled and non-refillable) with small-format coaxial connection, 1 temperature probe, 1 9v. 6LR61 battery, 2 plastic holders that attach on one side to hang the electrode and temperature probe.

Code	KDD010
Range	0.00/14.00 pH; 0/±1999 mV; 0/100º C
Resolution	0.01 pH; 1 mV; 0.1 ºC
Accuracy	±0.01 pH; ±0,1% F-S *(±1 digit);* ±0.4 ºC
Power / Battery	1 x 9V (6LR61)
Dimensions	123 x 72 x 33 mm

Portable pH meter DPH10

DLAB

1| 3.5" TFT Color Display, easy to read. The new UI interface, easy operation.
2| Intelligent function with Auto. timing datalogger, parameter setting, data holder. Data storage up to 3000 groups.
3| Charging socket: USB/Type-C, in line with the European new regulations. Protection class: IP57

Code	KDD011
Range	2.000/20.000 pH; -1999,9 / +1999,9 mV; 0/100º C
Resolution	0.1/ 0.01/ 0.001 pH; 0.1/1 mV; 0.2 ºC
Accuracy	±0.01 pH; ±0,1% F-S *(±1 digit);* ±0.4 ºC
Power supply	Rechargeable lithium battery
Dimensions	80 x 360 x 270 mm

KDD - Laboratory pH-meters

Bench top pH meter DPH100

1| High-res 7" display screen with white backlight, easy to read
2| Automatic calibration, ATC measurement, parameter setup. Automatic reading stable indication, calibration indication.
3| Data export: Flash disk/ Wireless printer (the printer is optional).
4| Equipped with a flexible probe holder and pH buffer solutions for convenient use.
5| Protection class: IP54.

Code	KDD012
Range	2.0/20.0 pH; -1999,9 / +1999,9 mV; 0/100º C
Resolution	0.1/ 0.01 pH; 0.1/1 mV
Accuracy	±0.01 pH; ±0,1% F-S *(±1 digit);* ±0.2 ºC
Power supply	DC 12V
Dimensions	80 x 360 x 270 mm

Bench top "Touch screen" pH meter DPH100T

1| High-res 7" touch screen, easy for operation. Intelligent functions such as automatic calibration, automatic temperature compensation, timing, data logger, parameter setup, etc.
2| 1 to 5-point calibration for pH mode.
3| Data export: Flash disk/PC/Wireless printer (the printer is optional).
4| Equipped with a flexible probe holder, magnetic stirrer and standard calibration solution.
5| Protection class: IP54

Code	KDD013
Range	2.000/20.000 pH; -1999,9 / +1999,9 mV; 0/100º C
Resolution	0.01/ 0.001 pH; 0.1/1 mV
Accuracy	±0.01 pH; ±0,1% F-S *(±1 digit);* ±0.2 ºC
Power supply	DC 12V
Dimensions	80 x 360 x 270 mm

KDG - Electrodes and accessories

Electrode stand

1| Painted steel base. 3-point articulated plastic arm.
2| Holds up to 3 electrodes simultaneously. Easy adjustments in various angles and directions. Head with 1 central hole.

Code	KDG045

KDG - Electrodes and accessories

LabSen pH electrodes

1| pH probe connector, BNC type. Temperature probe connector, RCA type
2| Compatible with all Apera portable and benchtop pH analysers.

Code	KDG020	KDG021	KDG022
Model	201-C	201T-F	211
Range	0-14 pH	0-14 pH	0-14 pH
Body	PC	PC	Glass
Membrane	Glass, spherical	Glass, spherical	Glass, hemispherical
Probe temp.	No	NTC 30KΩ	No
Junction	Ceramic	Ceramic	Ceramic
Dims. (øxL)	12x160 mm	12x160 mm	12x120 mm

** For more options, consult*

Code	KDG024	KDG029
Model	331	223
Range	0-14 pH	0-14 pH
Body	POM	Glass
Probe temp.	No	NTC 30kΩ
Membrane	Spherical	Glass, cylindrical
Junction	1 pore	Ceramic
Dims. (øxL)	12x120 mm	12x130 mm

** For more options, consult*

KDG - Electrodes and accessories

Standard solution pH

APERA INSTRUMENTS

1| High Accuracy (±0.01 pH): standardized against NIST certified pH references within 0.01 pH at 25°C (77°F). Ideal for the calibration of all kinds of pH meters.

Code	Volume	pH	Colour
KDG040	50 mL	4.00	Red
KDG041	50 mL	7.00	Green
KDG042	50 mL	10.01	Blue

Protelyte pH Electrode Storage Solution

APERA INSTRUMENTS

1| Protelyte pH Electrode Storage Solution is used for storage and refilling of pH electrodes containing Protelyte electrolytes, such as in LabSen 821 and LabSen 823 electrodes. The solution can also be used for storage of LabSen 753 electrodes. and LabSen 763.

Code	Volume
KDG048	250 mL

KDJ - pH paper

Universal

Nahita

Code KDJ037

Code	pH	Format
KDJ002	0-10	Box of 200 strips
KDJ003	0-10	Roll 5 meters
KDJ037*	0-14	Box of 100 strips
KDJ005	1-14	Box of 200 strips
KDJ007	1-14	Box of 80 strips
KDJ006	1-14	Roll of 5 meters
KDJ032	1-14	3 rolls of 5 meters< *refill for for code KDJ006*

** with 4 pads*

KDD - Laboratory pH-meters

pH-meter and moisture tester for soil

Nahita

1| Portable and resistant for use in agriculture and gardening.
2| Sensor integrated in the conical end.
3| No power required.

Code	KDD004
Range pH	3-8 pH
Humidity Range (%)	1-8 (10-80%)
Resolution pH - %	0.2 pH - 10%
Probe	Fixed (30 cm)
Dimensions (mm)	410x50

KGB - Pocket tester

EC/TDS/CF Soil Tester with Probe

1| Soil meter with high quality probes. Too high or too low carbon content in the soil hinders plant growth. Fertilisers also produce different ECs in the soil that are involved in the different stages of plant growth. The TDS value indicates the presence of Total Soluble Solids in water. The lower the TDS value, the higher the solubility of heavy ions in water.

Code	KGB014
Range	
CE	0,00 - 4,00 mS/cm
CF	0,00 - 4,00 CF
TDS	0 / 100º C
Resolution	
CE	0,01 mS/cm
CF	0,01 CF
TDS	10 ppm
Accuracy	±2%FS
ATC	0ºC-50ºC
Weight	219 g

Pocket conductimeter tester, premium series

1| Automatic recognition of 5 types of buffer solutions. Triple-colour backlit display with icons indicator. Compatible probe: KGG007

Code	KGB011
Parameters	EC/ °C
Conductivity	
Range	0-200.0 µS/cm; 0-2000 µS/cm 0-20.00 mS/cm; 0-50.0ºC
Resolution / Accuracy	0.1/1 µS, 0.01 mS / ±1%Fs
Calibration	1 to 3 points
Salinity	0 to 10.00 ppt

KGB - Pocket tester

Pocket conductimeter tester, smart series

1| Step-by-step operation guide, calibration reminders, self-diagnostics, measurement. Calibration status and electrode status message. Compatible probe: KGG008

Code	KGB012
Parameters	EC/ °C
Conductivity	
Range	0-200.0 µS/cm; 0-2000 µS/cm 0-20.00 mS/cm; 0-50.0ºC
Resolution / Accuracy	0.1/1 µS, 0.01 mS / ±1%Fs
Calibration	1 to 3 points
Salinity	0 to 10.00 ppt

Pocket conductimeter tester, smart series

1| Replaceable combined probe design. Multi-color backlight display, easy to read data in different modes.

2| Buffers solutions: CH, USA, NIST standards are selectable Auto shut-off time, customized backlight display time. Supplied with standard solution, sample vials and lanyard for convenient field test.

3| Dual-control mode with mobile APP connection to achieve powerful data storage The mobile APP provides four types of measurement display for different situations, including Graph mode, Table mode, Dial mode, and General mode. Protection class: IP67.

Code	KGB015	KGB016
Model	DEC1	DEC1+
Bluetooh conexion	-	Yes
Parameter	Cond/TDS/Sal./Res./ºC	
Temperature range	0-60 ºC (32-140 ºF)	
Temperature Accuracy	±0.2 ºC	
Conductivity range	0-19.99 ms/cm	
TDS	0.0 mg/L-10.0 g/L	
Salinity	0-10 ppt	
Res	50 Ω cm-20M Ω cm	

KGD - Laboratory conductivity-meters

850 Series

APERA INSTRUMENTS

1| Supplied with combined conductivity electrodes with integrated temperature probe. Automatic temperature compensation
2| Large LCD display with automatic locking and shutdown
3| Compatible probes: KZD026 (Conductivity electrode with temperature probe (k=1), 2301T-S)

Code	KGD004
Model	EC850
Parameters	Cond/TDS/Temp
Conductivity	
Range	0 – 19.99 µS/cm; 20.0 – 199.9 µS/cm 200-1999 µS/cm; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 µS, 0.01/0.1 mS
Accuracy	± 1.0% FS ± 1 digit
Temp. compensation	0 – 50ºC
Calibration	1 to 3 points
Temperature	0 – 100ºC

700 Series

APERA INSTRUMENTS

1| Equipped with a combined conductivity electrode with integrated temperature probe. Automatic detection of 8 types of conductivity. Automatic calibration mode, calibration guide and automatic verification.
3| Automatic temperature compensation, 50 data storage groups.
4| Electrode support arm and calibration standard solutions included.
5| IP54 protection rating. BNC connector for conductivity and RCA for temperature probe.

Code	KGD005
Model	EC700
Parameters	Cond./ºC
Conductivity	
Range	0 – 19.99 µS/cm; 20.0 – 199.9 µS/cm 200-1999 µS/cm; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 µS, 0.01/0.1 mS
Accuracy	± 1.0% FS ± 1 digit
Temp. compensation	0 – 50ºC
Calibration	1 to 3 points
Temperature	0 – 100ºC

KGD - Laboratory conductivity-meters

820 Series

APERA INSTRUMENTS

1| Large LCD display with simultaneous display of pH/Cond and temperature, icons for stable readings and calibration completion stable readings and calibration completion.
2| Storage of 500/1000 data sets for Good Laboratory Practice (GLP).
3| USB data output, cable and 820 Series PC-link software (Windows only) included. Combined conductivity (BPB) and temperature electrode. Flexible 3-electrode holder included.
4| Calibration solutions for conductivity (84µS/cm, 1413 µS/cm, 12.88 mS/cm). Dust and splash protection rating IP54.

Code	KGD006
Parameters	Cond/TDS/Sal/ºC
Conductivity	
Range	0 – 19.99 µS/cm; 20.0 – 199.9 µS/cm 200-1999 µS/cm; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 µS, 0.01/0.1 mS
Accuracy	± 0.5% FS ± 1 digit
Constant electrode	0.01/0.1/1.0/10.0 cm-1
Compensation temp.	0 – 50ºC
Calibration	1 to 4 points, automatic
Temperature	-10 – 110ºC

Benchtop conductimeter with stirring, EC9500

DLAB

1| GLP data management (incl. time, date, sample ID, electrode, user) with data output via USB.

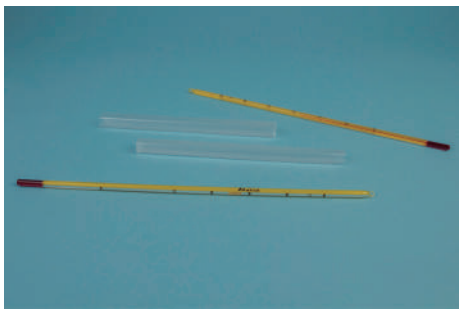
Password protected operation; GLP printer support. Including magnetic stirrer and electrode holders. Multilingual operating system (English, German, Chinese, Spanish)

2| Large backlit LCD display. Thanks to the integrated microprocessor chip, the meter features intelligent functions such as automatic calibration, automatic temperature compensation, function adjustment, self-diagnostics and data logger

Code	KGD007
Parameters	Cond/TDS/Sal/ºC
Conductivity measuring range	EC: 0 to 2000 mS/cm / TDS: 0 to 500 g/l Salinity: 0 to 100 ppt Resistivity: 0 to 20 MOcm.
Resolution	0.01/0.1/1 µS/cm; 0.01/0.1/1 mS/cm / 0.1 °C
Accuracy	±0.5 % F.S. ± 1 digit / ±0.5 °C ± 1 digit
Temp. measuring range	-10 to 110.0 °C

KJB - Solid stem

Solid stem



1| Brown graduation resistant to the action of physical-chemical agents. Filled with non-contaminating or dangerous coloured organic liquid. Ring to suspend the thermometer. Supplied in individual protective plastic case.

Code	Range	Divisions	Lenght
KJB003	-10 / 50 ºC	0.5 ºC	30 cm
KJB004	-10 / 110 ºC	0.5 ºC	30 cm
KJB009	-10 / 250 ºC	1 ºC	30 cm
KJB010	-10 / 50 ºC	1 ºC	30 cm
KJB011	-10 / 110 ºC	1 ºC	30 cm
KJB012	-10 / 150 ºC	1 ºC	30 cm
KJB013	-10 / 200 ºC	1 ºC	30 cm
KJB014	-10 / 250 ºC	2 ºC	30 cm
KJB017*	-10 / 50 ºC	0.2 ºC	55 cm
KJB018	-10 / 50 ºC	0.1 ºC	55 cm
KJB019	-10 / 110 ºC	0.2 ºC	55 cm
KJB020	-10 / 110 ºC	0.1 ºC	55 cm
KJB021	-50 / 50 ºC	1 ºC	30 cm
KJB022	-100 / 50 ºC	1 ºC	30 cm
KJB023	- 20 / 150	2ºC	30 cm

** without a glass ring*

KJD - Enclosed scale

Coloured spirit filled

1| Internal scale graduated in black. Ring to suspend the thermometer.
2| Filled with non-contaminating or dangerous coloured organic liquid. Supplied in individual protective plastic case.

Code	Range	Divisions	Lenght
KJD001	-10/50 ºC	0.5 ºC	30 cm
KJD002	-10/110 ºC	0.5 ºC	30 cm
KJD005	-10/50 ºC	1 ºC	30 cm
KJD006	-10/110 ºC	1 ºC	30 cm
KJD007	-10/150 ºC	1 ºC	30 cm
KJD008	-10/200 ºC	1 ºC	30 cm
KJD009	-10/250 ºC	2 ºC	30 cm

KJJ - With metal probe

Digital thermometer withmetallic probe

1| 180 mm long metal probe in food grade stainless steel 304 and 1 metre long steel mesh cable.
2| Clock (12/24H), stopwatch, and alarm functions. Powered by 1.5V AAA battery (included).

Code	KJJ002
Range	0/300 ºC (32/572 ºF)
Resolution	0.1ºC

Digital thermometer with removable metal probe

1| ABS plastic housing. Probe made of stainless steel 304, 115 mm..
2| LCD display. Within 5 seconds the actual temperature of the measured object can be read.

Code	KJJ005
Range	-50 / 300 ºC (-58/572 ºF)
Resolution	0.1 ºC (0.1 ºF)
Battery*	1x1.5V (AAA)
Dimensions	150x35x20 mm

** Not included*

Digital

1| Temperature measurement in solids and semi-solids (food, soil, etc.). LCD screen for convenient and quick data reading.
2| Fixed stainless steel penetration probe of 150 mm.

Code	KJJ004
Functions	Memory of maximum and minimum.
Range	-50/300ºC - 58/572ºF
Accuracy	0.1 ºC - 0.1 ºF
Battery	1x1.5V (AG13)

KJM - Room temperature

Digital

Code - KJM016

1| Thermometer with digital LCD display for measuring both indoor and outdoor temperatures at the same time with a 1.5 meters outdoor temperature sensor. For changing between Celsius and Fahrenheit degree just pressing a key. The thermometer recorded daily maximum or minimum value of indoor and outdoor temperature.

Code	KJM016	KJM017
R.T^{a} indoor	-10/50ºC;14/122ºF	-0/50ºC;32/122ºF
R.T^{a} outdoor	-40/70ºC;-40/158ºF	-40/70ºC; -40/158ºF
R.HR	-	10%-99%
Resolution	0.1 ºC; 0.1 ºF	±1 ºC;±2 ºF
Accuracy	±1 ºC; ±2 ºF	±1 ºC;±2 ºF;±5 %HR

Plastic

Code-KJM006

Code-KJM015

Code	Range	Resol.	Dimensions
KJM006	-40/50 ºC -40/120 ºF	1 ºC 2 ºF	400x65 mm
KJM015	-15/50 ºC 8/120 ºF	1º C 2 ºF	200x45 mm

Relative humidity thermometer (Psychrometer)

1| Made of plastic with protective canopy for outdoors.
2| With double wet-bulb and dry-bulb thermometer. Built-in correlation table to extrapolate relative humidity reading.

Code	Range	Resolution	Dimensions
KJM014	-10/50 ºC	1 ºC	300x75 mm

KJM - Room temperature

Thermometer Hygrometer

1| It has a 12/24h clock function with alarm. Material: ABS

Code	KJM025
Measurement range	
Temp. / Humidity	-10ºC ~ +50ºC / 10% ~ 90% RH
Accuracy	
Temp. / Humidity	± 1 ºC (1,8ºF) / ± 5% HR
Resolution	
Temp. / Humidity	0,1 ºC (0,2 ºF) / 1% HR
Power supply	1 x 1,5V AAA (included)

Maximum-minimum

Code-KJM019

Code-KJM020

Code	Range	Resolution	Lenght
KJM019	-40/50 ºC	1 ºC	240 mm
KJM020	-40/50 ºC	1º C	240 mm

Waterproof thermometer with maximum and minimum values

1| The thermometer has digital display, maximum and minimum temperature memory function, with hook hole, can be hung on windows or walls. It is waterproof, can be placed directly outside.

Code	KJM024
Measuring range	-20ºC / +50ºC
Accuracy	± 1 ºC (1.8ºF)
Resolution	0.1 ºC (0.2 ºF)
Power supply	1 x 1.5V AAA (not included)
Dimensions	132 x 80 x 30 mm

KJP - For refrigerators

Low temperatures

Code - KJP005

1| Filled with colored organic liquid..

Code	Description	Range	Divi.
KJP001	Solid steam, 150 mm	-40/40 ºC	1 ºC
KJP005	With hook, 200 mm	-40/45 ºC	1 ºC

KJR - Others

Thermometer with ring

1| With a ring to suspend the thermometer.
2| Non-polluting or dangerous coloured organic liquid.

Code	Range	Resolution
KJR002	0/50 ºC	1 ºC

Thermometer for wine

1| Wooden head that allows it to be attached to the bottle mouth.
2| Non-polluting or dangerous coloured organic liquid.

Code	Range	Resolution
KJR003	0/40 ºC	1 ºC

KJR - Others

Soil thermometer

1| Inserted in protective aluminium housing.
2| Non-polluting or dangerous coloured organic liquid.

Code	Range	Resolution
KJR006	-10/110 ºC - 20/220 ºF	1 ºC

Digital Thermo-Hygrometer with Thermocouple Type K

1| HD LCD screen with backlight display for clear display. The temperature measuring line is resistant to high temperature, corrosion, fear of bending and repeated use.
2| Made of high-quality rubber material, it comfortable handfeel and not easy to fall off.
3| K-type thermocouple contact temperature measurement, unique contact temperature measurement.

Code	KJR015
Temperature	
Range	-10,00~+50,00 ºC *(K-type probe: -20.00~+1000,00 ºC)*
Resolution	0,1ºC *(K-type probe: 1º C)*
Accuracy	±1,5 ºC
Humidity	
Range	5 ~ 98 %HR
Resolution	0,1 % HR
Accuracy	±5% HR *(5-40% HR)*; ±3% HR *(41-80% HR)*
Power	1 x 9V *(6F22 PP3)*
Dimensions	156x66x33 mm

KKB - Stopwatches

Digital

1| With stopwatch, clock and calendar functions. Supplied with a cord.

Code	KKB001
Watch	12/24 h
Stopwatch	23 h 59 min 59 s
Resolution	1/100 s (≤30 min) / 1 s (>30 min)
Power	Lithium battery

KKF - Timers

Pocket timer

1| With robe pocket clip, magnet for metal surfaces and ring for vertical positioning.

Code	KKF002
Watch	Mode 12/24 h
Timer	Máx. 23 h 59 min 59 s, with thinl alarm of 1 min
Memory	1
Stopwatch	23 h 59 min 59 s
Dimensions	52x67x25 mm
Power	1 button cell

Code	KKF005
Watch	12/24 h
Timer	19h 59' (alarm)
Case	ABS white
Type	Support/Clip/Magnet
Dimensions	50x62x23 mm

KKF - Timers

Alarm timer

1| They are designed to be places on the desk or to be hanged, and they are provided with a magnet to fix them on metallic surfaces.

Code	Max. time	Divisions	Dimensions
KKF001	60 min	1 min	70x70x40 mm

KLB - Alcoholometers

1| Glass body. Presentation in individual case. Calibrated at 20ºC except KLB015* at 15ºC. In Gay Lussac scale (% alcohol volume) and Cartier scale (KLB014 and KLB015).

Code	Range (%V)	Divisions	Lenght	Diameter
KLB004	0-10 %	1/10	330 mm	31 mm
KLB005	10-20 %	1/10	330 mm	31 mm
KLB006	20-30 %	1/10	380 mm	31 mm
KLB007	30-40 %	1/10	315 mm	30 mm
KLB008	40-50 %	1/10	315 mm	30 mm
KLB009	50-60 %	1/10	315 mm	28 mm
KLB010	60-70 %	1/10	380 mm	25 mm
KLB011	70-80 %	1/10	380 mm	25 mm
KLB012	80-90 %	1/10	380 mm	22 mm
KLB013	90-100 %	1/10	380 mm	23 mm
KLB001	0-30 %	1/10	290 mm	25 mm
KLB002	0-50 %	1/10	260 mm	22 mm
KLB003	50-100 %	1/10	280 mm	16 mm
KLB014	0-100 % vol. 10-44 ºCartier	1/10 1/2	290 mm	15 mm
KLB015*	0-100 % vol. 10-44 ºCartier	1/1 1/2	290 mm	-
KLB016	0-100%	1/1	290 mm	31 mm
KLB017	0-20 %	1/1	305 mm	26 mm
KLB018	20-40 %	1/1	305 mm	26 mm
KLB019	40-60 %	1/1	305 mm	26 mm
KLB020	60-80 %	1/1	305 mm	26 mm
KLB021	80-100 %	1/1	305 mm	26 mm
KLB022	94-104 %	1/1	305 mm	26 mm

KLD - Areometers

1| Glass body. Presentation in individual case. In density scale (Kg/m³). Calibrated at 20ºC.

Code	Range (%V)	Divisions	Lenght	Diameter
KLD001	0-10	1/10	290 mm	16 mm
KLD005	10-20	1/10	310 mm	20 mm
KLD007	20-30	1/10	280 mm	18 mm
KLD008	30-40	1/10	310 mm	18 mm
KLD009	40-50	1/10	290 mm	22 mm
KLD010	50-60	1/10	310 mm	16 mm
KLD011	60-70	1/10	310 mm	15 mm
KLD002	0-30	1/10	310 mm	15 mm
KLD003	0-50	1/10	240 mm	14 mm
KLD004	0-70	1/10	290 mm	12 mm
KLD006	5-15	1/10	310 mm	20 mm
KLD012	0-20	1/10	285 mm	18 mm
KLD013	20-40	1/10	285 mm	18 mm
KLD014	40-60	1/10	290 mm	21 mm
KLD015	30-60	1/10	300 mm	15 mm
KLD016	0-40	1/10	290 mm	15 mm

KLG - Hydrometers

Code	Range (g/mL)	Div.	Lenght(total)xØ
KLG001	0,600-0,700	1	310x16 mm
KLG002	0,700-0,800	1	310x16 mm
KLG003	0,800-0,900	1	310x17 mm
KLG004	0,900-1,000	1	310x17 mm
KLG005	1,000-1,100	1	310x17 mm
KLG006	1,100-1,200	1	310x17 mm
KLG007	1,200-1,300	1	310x18 mm
KLG008	1,300-1,400	1	310x18 mm
KLG009	1,400-1,500	1	310x18 mm
KLG010	1,500-1,600	1	310x19 mm
KLG011	1,600-1,700	1	310x20 mm
KLG012	1,700-1,800	1	310x20 mm
KLG021	1,800-2,000	2	290x20 mm
KLG025	0,600-0,800	2	305x21 mm
KLG026	0,800-0,100	2	285x18 mm
KLG027	1,000-1,200	2	260x18 mm
KLG028	1,200-1,400	2	280x18 mm
KLG029	1,400-1,600	2	290x18 mm
KLG030	1,600-1,800	2	295x21 mm
KLG031	1,800-2,000	2	305x21 mm

KLG - Hydrometers

Density meters for analytical use

Code	Range (g/mL)	Lenght (total)xØ
KLG033	0,650-0,700	270x21 mm
KLG034	0,700-0,750	270x21 mm
KLG035	0,750-0,800	270x21 mm
KLG036	0,800-0,850	270x21 mm
KLG037	0,850-0,900	270x21 mm
KLG038	0,900-0,950	270x21 mm
KLG039	0,950-1,000	270x21 mm
KLG040	1,000-1,050	270x21 mm
KLG041	1,050-1,100	270x21 mm
KLG042	1,100-1,150	270x21 mm
KLG043	1,150-1,200	270x21 mm
KLG044	1,200-1,250	270x21 mm
KLG045	1,250-1,300	270x21 mm
KLG046	1,300-1,350	270x21 mm
KLG047	1,350-1,400	270x21 mm
KLG048	1,400-1,450	270x21 mm
KLG049	1,450-1,500	270x21 mm
KLG050	1,500-1,550	270x21 mm
KLG051	1,550-1,600	270x21 mm
KLG052	1,600-1,650	270x26 mm
KLG053	1,650-1,700	270x26 mm
KLG054	1,700-1,750	270x26 mm
KLG055	1,750-1,800	270x26 mm
KLG056	1,800-1,850	270x26 mm
KLG057	1,850-1,900	270x26 mm
KLG058	1,900-1,950	270x26 mm
KLG059	1,950-2,000	270x26 mm

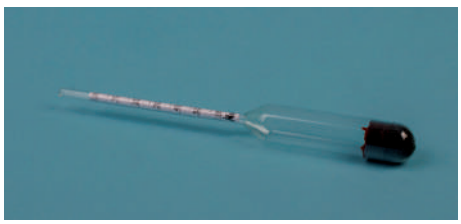
Quevenne lactometer

1| Glass body with scale in lacto-densimetric degrees (15º equals 1015g/mL). With divisions of 1.

2| Calibrated at 20ºC and available with a thermometer for deviation correction. Supplied in an individual case.

Code	Range	Lenght (total)xØ	Thermometer
KLG014	15-40	215x19 mm	No
KLG015	15-40	290x3 mm	Yes (0-40ºC)

Urine hydrometer



1| Glass body, presented in individual case.

2| In density scale (g/mL), calibrated at 20ºC.

Code	Range (g/mL)	Div.	Lenght
KLG017	1,000-1,060	1	145 mm

KLG - Hydrometers

Density petroleum hydrometer

1| Designed for determining the density of petroleum derivatives. According to ISO 3675. Calibrated at 15ºC in compliance with ISO 649-1 standard.
2| Available in M50SP and L50SP series.

Code	Range (ºBx)	Calibration	L (total)xØ
Serie M50SP			
KLG060	0.650-0.700	0,001	270 mm
KLG061	0.700-0.750	0,001	270 mm
KLG062	0.750-0.800	0,001	270 mm
KLG063	0.800-0.850	0,001	270 mm
KLG064	0.850-0.900	0,001	270 mm
KLG065	0.900-0.950	0,001	270 mm
KLG066	0.950-1.000	0,001	270 mm
Serie L50SP			
KLG067	0.650-0.700	0,0005	335 mm
KLG068	0.700-0.750	0,0005	335 mm
KLG069	0.750-0.800	0,0005	335 mm
KLG070	0.800-0.850	0,0005	335 mm
KLG071	0.850-0.900	0,0005	335 mm
KLG072	0.900-0.950	0,0005	335 mm
KLG073	0.950-1.000	0,0005	335 mm

Battery hydrometer

1| Allows checking the electrolyte condition of a battery. Sturdy glass body with bulb and suction tube. Calibrated at 20ºC.

Code	Range (g/mL)	Nº div.
KLG020	1,100-1,300	5

KLJ - Saccharometers

With and without thermometer

Code	Range (ºBx)	Div.	L (total)xØ
KLJ008	70-80	1	370x26 mm
KLJ009	80-90	1	370x26 mm
KLJ010	30-60	1	370x21 mm
KLJ011	60-90	1	370x21 mm
KLJ003*	0-20	1/5	375x18 mm
KLJ004*	20-30	1/10	375x25 mm
KLJ005*	30-40	1/10	375x25 mm
KLJ006*	40-50	1/10	375x25 mm
KLJ007*	50-60	1/10	375x25 mm
KLJ012	0-10	1/10	305x26 mm
KLJ013	10-20	1/10	305x26 mm
KLJ014	20-30	1/10	305x26 mm
KLJ015	30-40	1/10	305x26 mm
KLJ016	40-50	1/10	305x26 mm
KLJ017	50-60	1/10	305x26 mm
KLJ018	60-70	1/10	305x26 mm
KLJ019	70-80	1/10	305x26 mm
KLJ020	80-90	1/10	305x26 mm
KLJ021	0-30	1/5	280x18 mm
KLJ022	30-60	1/5	280x18 mm
KLJ023	60-90	1/5	280x18 mm

** with thermometer*

KLL - Mustimeters

Mustimeter

1| Glass body and presented in an individual case. Calibe at 20 ºC.

Code	Range	Divisions	L (total)xØ
KLL001	0-30 ºBe	1/2	290x17 mm
KLL004	7-16ºBe	1/5	250x23 mm
KLL005	0-20 ºBe 4-22 % alc.	1/5 1/5	260x20 mm
KLL003	4-18 % alc. 0,980-1,130g/mL	1/2 1	310x19 mm

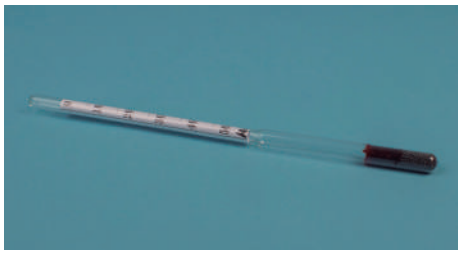
KLL - Mustimeters

Triple scale wine and beer hydrometer

1| Glass body and presented in an individual case. Calibe at 20 ºC.

Code	Range (ºBe)	L (total)xØ
KLL006	0,980-1,110 sp. gr. -2 a 14% vol. 26-288 sug\L	270X18 mm

KLN - Liquid hydrometers



1| Glass body and presented in an individual case. Calibrated at 20 ºC.

Code	For	Range	L (total)xØ
KLN003	Syrup	0-50º Be	250x11 mm
KLN006	Bleach	0-45 ºBe	255x12 mm
KLN007	Salts	0-35 ºBe	210x13 mm
KLN011	Heavy	0- 70º Be/1,000-2,000 g/mL	290x15 mm
KLN012	Light	10- 70º Be/0,700-1,000 g/mL	305x15 mm
KLN013	Heavy	0- 50º Be/1,000-1,500 g/mL	305x18 mm
KLN014	Heavy	50 70º Be/1,500-2,000 g/mL	305x15 mm

KLQ - Pycnometers

Gay-Lussac

BORO 3.3

DIMENSIONS

d: Ø
h: Height

1| Allows you to consider the density or specific weights of liquids or solids. Manufactured in borosilicate glass according to ISO 3507 standards. Calibrated at 20ºC.

Code	Volume	Toler.	SJ	ØxH (mm)
KLQ001	10 mL	±1 mL	7/11	27x55
KLQ002	25 mL	±2 mL	10/13	40x75
KLQ003	50 mL	±3 mL	10/13	50x85
KLQ007	100 mL	±5 mL	10/13	57x100

KLQ - Pycnometers

Pycnometer

Code	Volume	Tolerance	ØxH (mm)
KLQ008	25 mL	± 2 mL	40x113
KLQ004	50 mL	±3 mL	48x120

Pycnometer with adapter and funnel

DIMENSIONS

d1: Ø
d2: Ø
d3: Ø
h: Height

Code	Volume	SJ	d1xd2xd3xh (mm)
KLQ011	1000 mL	45/40	131x10x40x390

Pycnometer Gay Lussac volume Class A

BORO 3.3

1| Calibrated at 20ºC, without certification.

Code	Volume	Tolerance	Lot
KLQ012	10 mL	± 1 mL	2
KLQ013	25 mL	± 2 mL	2
KLQ014	50 mL	± 3 mL	2
KLQ015	100 mL	± 3 mL	2

KNB - Rotational viscosimeters

Digital Viscosimeter Model 810/1

1| Equipped with 4 rods, a rod protector, and a temperature probe.
*** Rod 0, specific for low viscosities, included in models KNB008, KNB009, and KNB0010.**
2| Bright LCD screen and a large control panel for selecting speed and spindle parameters. RS-232 output available.
3| Solid base and metal stand for a firm grip. Includes a leveling bubble for perfect alignment.
4| Sturdy column with a rack system and metal clamp. These allow the head to be comfortably placed at the desired height, ensuring good stability.
5| The equipment is supplied with a spindle holder and comes in an aluminum case for the viscometer and optimal storage and preservation.

Code	KNB005	KNB006	KNB007
Model	810/1	810/2	810/3
Measurement range	10 – 100000	10 – 2 x10^6	10 – 6x10^6
(mPa·s (cP)			
Speed (rpm)	6; 12; 30; 60	0,3; 0,6; 1,5; 3; 6; 12; 30; 60	0,1; 0,3; 0,6; 1,5; 3; 6; 12; 30; 60
Resolution	1 mPa·s		
Repeatability	± 1%		
Rods	1, 2, 3, 4		
Repeatability	0.5 %		
Power Supply	110/220V; 50/60Hz		

*** Rod 0, specific for low viscosities, included in models KNB008, KNB009, and KNB0010.**

Code	KNB008	KNB009	KNB010
Model	810/1	810/2	810/3
Measurement range	1 – 100000	1 – 2 x10^6	1 – 6x10^6
(mPa·s (cP)			
Speed (rpm)	6; 12; 30; 60	0,3; 0,6; 1,5; 3; 6; 12; 30; 60	0,1; 0,3; 0,6; 1,5; 3; 6; 12; 30; 60
Resolution	1 mPa·s		
Repeatability	± 1%		
Rods	0,1, 2, 3, 4		
Repetibilidad	0.5 %		
Power Supply	110/220V; 50/60Hz		

Viscosimeter 801

1| Robust, efficient, and easy-to-use analog rotational viscometer. Ideal for determining low dynamic viscosities (motor oil, paints, varnishes, etc.).
2| It has 4 rotation speeds and is equipped with 4 rotors.
3|Large column with a gear/rack system for adjusting the head height.
4| Wide and stable support base with adjustable feet and a leveling bubble in the head. Supplied in a metal case.
5| Rotor no. 0 for measuring <100cP is available on request. It must be ordered along with the viscometer and calibrated with the device.

Code	KNB001
Measurement range	10-100000 mPa·s (cP)
Repeatability	±1%
Rods	nº 1, 2, 3, 4
Velocidad motor	6/12/30/60 rpm
Tolerancia	± 5% (Newtonian fluids)
Alimentación	220V, 50 Hz

Pin No. 0 (not included, available upon request)

KZB - Dissolved oxygen

Portable dissolved oxygen meter DO8500

APERA INSTRUMENTS

1| The equipment is supplied in a carrying case with a dissolved oxygen sensor (KZD011) and a conductivity probe (KZD014) with 3 meters of cable, a calibration sleeve for the DO sensor, a combined electrode junction, a USB cable, PC-Link communication software, a sponge for water storage, batteries, and a user manual.
2| Accessories: 10-meter optical sensor for the DO8500 meter (KZD012); 10-meter probe for salinity measurement with DO8500 (KZD015); luminescent cover for the optical sensor (KZD013).

Code	KZB004
Model	DO8500
Dissolved Oxygen	
Range	0-200 %; 0 – 20.0 mg/L
Resolution	0.1/1 %, 0.01/0.1 mg/L (ppm)
Accuracy	±2% reading or ±2% saturation; ±2% reading or ±0.2 mg/L (ppm)
Response time	< 30 s (25ºC, 90% response)
Calibration	Zero oxygen and saturated oxygen
Temperature compensation	Automatic from 0 to 50ºC
Pressure compensation	Automatic 60 to 120 kPa
Salinity compensation	Automatic or manual 0 to 45 ppt
Temperature	
Range	From 0 to 50 °C
Resolution	0.1 °C
Accuracy	± 0.5 °C

Portable Dissolved Oxygen Meter, SX716

APERA INSTRUMENTS

1| It is ideal for a variety of applications related to water solutions, including water treatment, groundwater, surface water, environmental monitoring, aquaculture, aquariums, or beverage production.
2| The equipment is supplied with the DO500 polarized electrode, protected in a sturdy carrying case.
3| Built-in memory function allowing storage and recall of 100 data sets.

Code	KZB005
Model	SX716
Dissolved Oxygen	
Range	0-200% ; 0-19,99 mg/l
Resolution	1/0,1% ; 0,1/0,01 mg/l (ppm)
Accuracy	±0,30 mg/l (ppm)*
Response time	≤30s (25˚C, 90% response)
Automatic calibration	Saturated water air; air-saturated water
Temperature compensation	0 to 45 °C (automatic)
Atmospheric pressure compensation	66 to 200 kPa (manual)
Salinity compensation	0 to 45 ppt (automatic)
Classe de protection	IP 57, water-resistant
Power Supply	AA alkaline batteries (1.5 V x2)
Dimensions	65x120x31 mm
Poids	180 g

** includes the electrode error*

KZD - Multiparameter

Ec/temperature meter pocket-size

1| Replaceable electrode (ref. KGG009).
2| Made of ABS plastic. Water-resistant. Buttons for: ON/OFF power, °C/°F button. Ambient humidity of the working environment: ≤95%.

Code	KZD027
Measurement range	
CE	0-19990µs/cm, 0-19.9ms/cm
Temperature	-50ºC / 70ºC
Resolution	
CE	1µs/cm(<1999µs/cm), 10µs/cm(>1999µs/cm), 0,1ms/cm
Temperature	0.1 ºC
Accuracy	
CE	± 2% F.S.
Temperature	± 1ºC
Display	4-Digital LCD
CAT	0ºC / 50ºC
Batteries	3 A 1,5 V
Dimensions	188 mm x 35 mm

pH/TDS/EC/ORP/Temperature meter pocket-size

1| Replaceable electrode (ref. KZD029). There is no need to keep the electrode submerged in the solution.
2| Buttons for: ON/OFF power, HOLD/TEMP, MODE/CAL button for calibration.
3| Calibration for acidic or basic pH range. 3-point calibration.

Code	KZD028
Measurement range	
Temperature	0.1 ºC / 60 ºC
pH	0.00 / 14.00
TDS	0/9990 ppm
Conductimetry	0/19990 us/cm
ORP	0/± 1000 mV
Working environment humidity	≤ 95%
CAT	0 ºC / 50 ºC
Batteries	3xLR44
Dimensions	187x37x37 mm
Poids	280 g

Serie smart

1| Next-generation smart analyzers, the Smart Series allows for recording measured parameters on mobile devices (Android or iOS) via the ZenTest app using Bluetooth 5.0.
2| Can be used conventionally without connection to a mobile device. Four data display modes: Simple, Dial, Graph, Table.
3| Replaceable electrodes; KZD010 included.

Code	KZD006
Parameter	pH/EC/°C
Conductivity	
Range	0-200.0 µS/cm; 0-2000 µS/cm 0-20.00 mS/cm; 0-50.0ºC
Resolution / Accuracy	0.1/1 µS, 0.01 mS / ±1%Fs
Calibration	1 to 3 points
Coefficient temp.	0.00 à 4.00% / ºC
pH	
Range	-2.00 - 16.00 pH
Resolution / Accuracy	0.01 pH - ±0.01 pH
Calibration	1 to 3 points
Salinity	0 to 10.00 ppt
Type of probe	Platinum (KZD010)

KZD - Multiparameter

Serie premium

APERA INSTRUMENTS

1| Automatic temperature compensation. Automatic recognition of 5 types of buffer solutions. Automatic temperature compensation. Replaceable electrodes; KZD009 included.

Code	KZD005
Parameter	pH/EC/ºC
Conductivity	
Range	0-200.0 µS/cm; 0-2000 µS/cm 0-20.00 mS/cm; 0-50.0ºC
Resolution / Accuracy	0.1/1 µS, 0.01 mS / ±1%Fs
Calibration	1 to 3 points
Coefficient temp.	0.00 a 4.00% / ºC
pH	
Range	-2.00 - 16.00 pH
Resolution / Accuracy	0.01 pH - ±0.01 pH
Calibration	1 to 3 points
Salinity	0 to 10.00 ppt
Type of probe	Platinum (KZD009)

Portable multiparameter analyzer PC850

APERA INSTRUMENTS

1| Supplied with combined pH and conductivity electrodes with built-in temperature probe and automatic temperature compensation.
2| Large LCD screen for displaying measured values, calibration indicators, stable reading icons, and self-diagnosis.
3| IP57 protection rating, waterproof, silicone protectors for connections, and rubber coating make them suitable for use in harsh environments.
4| Compatible electrodes: KDG021 (pH electrode with temperature probe), KZD026 (conductivity electrode).

Code	KZD007
Model	PC850
Parameter	pH/mV/Temp/Cond/TDS
pH	
Range	0-14
Resolution	0.1/0.01 pH
Accuracy	±0.01 pH ± 1 digit
Temperature compensation	0-100 ºC
Calibration	1 to 3 points (USA/NIST)
mV	
Range	±1000 mV
Resolution	1 mV
Accuracy	± 0.2% FS ± 1 digit
Conductivity	
Range	0 – 19.99 µS/cm; 20.0 – 199.9 µS/cm 200-1999 µS/cm; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 µS, 0.01/0.1 mS
Accuracy	± 1.0% FS ± 1 digit
Compensation temp.	0 – 50ºC
Calibration	1 to 3 points
Temperature	0 – 100ºC

KZD - Multiparameter

Serie 820

APERA INSTRUMENTS

Code	KZD008
Parameter	pH/mV/ Cond/TDS/Sal/ºC
pH	
Range	-2.000 – 19.999 pH
Resolution	0.1/0.01/0.001 pH
Accuracy	±0.002 pH ± 1 digit
mV	
Range	± 1999 mV
Resolution	1 mV
Conductivity	
Range	0 – 19.99 µS/cm; 20.0 – 199.9 µS/cm 200-1999 µS/cm; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 µS, 0.01/0.1 mS
Accuracy	± 0.5% FS ± 1 digit
Compensation temp.	0 – 50ºC
Calibration	1 to 4 points, automatic
Temperature	-10 – 110ºC
Accuracy	±0.1 % FS ± 1 digit

Multiparameter meter with stirrer, PC9500

APERA INSTRUMENTS

1| Equipped with a multifunctional test bench, consisting of a flexible electrode holder, solution organizers, and a magnetic stirrer.
2| TFT color screen. Can measure and display pH and conductivity values simultaneously. Help button to check instructions provided with the measuring device. Compliant with GLP (Good Laboratory Practices) standards.
3| Outputs for printer, keyboard, and USB (not included).
4| Automatic data recording with the included 9500 PC-Link software.
5| Data storage allows recording of up to 2000 measurement series.
6| pH calibration can be done from 1 to 5 points and conductivity from 1 to 4 points. It has automatic temperature compensation from 0 to 50 ºC (manual or automatic).

Code	KZD036
Electrode	LabSen 211 pH, 2401T-F Cond
pH	
Range	-2,00 to 20,00 pH
Resolution	0,1/0,01/0,001 pH
Accuracy	±0,002 pH ±1 digit
mV	
Range	±2000,0 mV
Resolution	0,1 mV
Accuracy	±0.03% of the F.S. ±1 digit
Conductivity	
Range	0,00 µS/cm to 2000 mS/cm
Resolution	0,01/0,1/1µS/cm ; 0,01/0,1/1 mS/cm
Accuracy	±0,5% de l'E.M. ±1 digit
TDS (Range)	0,00 mg/L to 1000 g/L
Salinity (Range)	0,00 to 100 ppt
Resistivity (Range)	0,00 Ω-cm to 100MΩ-cm
Temperature	
Range	From -10,0 to 110,0°C ; from 14,0 to 230°F
Resolution	0,1°C ; 0,1/1°F
Accuracy	±0,5°C±1 digit
Power Supply	DC9V/600mA
Dimensions / Poids	360x235x100 mm / 1,7 kg

KZD - Multiparameter

Portable multiparameter computers

APERA INSTRUMENTS

1| Includes a hard carrying case.
2| LCD screen with bright and clear backlighting.
3| 1-point conductivity calibration.
4| Incorporates advanced technologies to optimize both response speed and instrument accuracy.
5| Data memory allowing storage of up to 400 measurement series (300 for model SX725).

NOUVEAUTÉ

Code	KZD032	KZD033	KZD035	KZD034
Parameters	pH/mV/ORP/DO CondTDS/Sal/Res	pH/mV/DO/Cond/TDS/ Sal/Sal/Res	pH/mV/Cond/ TDSTDS/Sal/Res	pH/mV/DO
Electrode	201T-S pH/ATC 301Pt-S ORP 2301T-S Cond DO503 DO	201T-S pH/ATC 2301T-S Cond DO503 DO	201T-S pH/ATC 2301T-S Cond	201T-S pH/ATC DO503 DO
pH				
Range	-2,00 to 19,99 pH			
Resolution	0,1/0,01 pH			
Accuracy	±0,01pH			
mV				
Range	-1999 mV to 1999 mV			
Resolution	1 mV			
Accuracy	±0,1% FS			
Conductivity				
Range	0,00 to 19,99 µS/cm ; 20,0 to 199,9 µS/cm 200 to 1999 mS/cm ; 2,00 to 19,99 mS/cm 20,0 to 199,9 mS/cm			-
Resolution	0,01/0,1/1 µS/cm ; 0,01/0,1 mS/cm			-
Accuracy	±1,0 % FS			-
TDS	0 to 100 g/l			-
Salinity	0 to 100 ppt			-
Resistivity	0 to 100 MΩ-cm			-
Dissolved Oxygen (DO)				
Range	0-200% ; 0-19,99 mg/l		-	0-200% ; 0-19,99 mg/l
Resolution	1/0,1% ; 0,1/0,01 mg/l (ppm)		-	1/0,1%; 0,1/0,01 mg/l (ppm)
Accuracy	±0.30 mg/L (ppm), including electrode error		-	±0.30 mg/L (ppm), including electrode error
Power Supply	AA alkaline batteries (1.5 V x2)			
Dimensions	65x120x31 mm			
Poids	180 g			

KZF - Turbidity

Portable turbidimeter

APERA INSTRUMENTS

1| They are designed for use both in the laboratory and outdoors (IP67 protection class), such as in drinking water analysis, non-alcoholic beverage analysis, environmental monitoring, etc.

2| They feature a large TFT color screen, with support for graphical operation guides and text, as well as a bar indicating the progress of measurements.

3| Turbidity measurement is performed using the nephelometric method, measuring light scattered at 90°, which provides greater accuracy at low measurement values. The TN meters comply with ISO 7027/ DIN EN 27027 standards, using an infrared light source with a wavelength of 860 nm (models TN400 and TN500i); or the American standard EPA180.1 with a tungsten lamp emitting white light (model TN500).

4| We can also transfer this data to a computer thanks to its storage capacity of 200 data sets and USB output.

Code	KZF001	KZF004	KZF005
Model	TN400	TN500	TN500i
Measurement method	Light scattering at 90º		
Standard	ISO 7027	U.S. EPA 180.1	ISO 7027
Light source	860 nm LED	Tungsten lamp	860 nm LED
Detector	Silicon photodiode		
Measurement ranges	0 – 1000 NTU		
Accuracy	± 2% reading + stray light		
Repeatability	≤ ± 1 % / 0.02 NTU		
Calibration points	0 NTU, 20 NTU, 100 NTU, 400 NTU, 800 NTU		
Reading mode	Normal	Normal / TruRead	Normal / TruRead
Parameter settings	No	TruRead: 5/10/15/20 readings	
Languages	English	English / Spanish	English / Spanish
Data output	No	Port USB	Port USB
Bottle volume	18 mL		
Batteries	AA x 4	Rechargeable lithium	3,7V - AAx4

L STIRRING

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LBB - With heating, analogicalal

Analogic with heating Nahita 690/1

1| Epoxy coated metal body. Supplied with support (rod, nut and clamp) and magnet for stirring.

Code	LBB001
Speed range	10-2000 rpm
Maximum stirring volume	2 L
Temperature range	RT - 180ºC
Plate material	Metallic epoxy coated
Plate size	120x120 mm
Aprox. dimensions	200x120x90 mm
Aprox. weight	2 Kg
Consumption	200 W

Analogic with heating Nahita-Blue, 693

1| Supplied with a rod, clamp for holding an electrode or thermometer, and a magnet for stirring. Audible alarm in case of overheating.

Code	LBB006
Max. speed	100-1500 rpm
Maximum stirring volume	20 L
Temperature range	RT - 350 ºC
Plate size	180x180 mm
Dimensions	300x210x126 mm
Consumption	580 W
Power	220v 50-60 Hz

With heating RSLAB-1C

1| Brushless motor guarantees a long operating. Protection according to DIN EN 60529: IP42.

Code	LBB003	LBB005
Speed range	0-1500 rpm	
Maximum stirring volume	20 L	
Temperature range	RT - 340ºC	
Plate material	Metallic, ceramic coated	Stainless steel
Ø plate	ø 135 mm	
Dimensions	280 x 160 x 85 mm	
Weight	2,8 Kg	
Consumption	550 W	

With heating RSLAB-5C, 10 positions

1| Individually controlled stirring for consistency with various samples. External rotor brushless motor reduces operating noises and increases motor life. Electronic speed control motor provides constant speed during changes in load.

Code	LBB004
Speed range	0-1100 rpm
Max. stirring volume	0,4 L
Temperature range	RT - 120ºC
Safety temperature	140ºC
Plate material	Silicone coating
Plate size	182x450 mm
Dimensions	182x 552x65 mm
Weight	3,2 Kg
Consumption	490 W

LBD - With heating, digital

With heating Nahita Blue, 693/1

1| Protection against overheating. Supplied with rod and clamp, temperature probe and stirring magnet. Probe not inluded.

Code	LBD009
Display	LCD
Speed range	100-1500 rpm
Max. stirring capacity	20 L
Temperature range	RT - 350ºC
Plate material	Metallic, ceramic coated
Plate size	190 x 190 mm
Dimensions	300 x 210 x 126 mm
Weight	4,2 Kg
Consumption	600 W

With heating RSLAB-2C

1| With watertight ring to protect the body of equipment. Includes PT1000 temperature probe code LBM002. Kit stand not included ref LBM003.

Code	LBD002	LBD008
Display	LCD	
Speed range	100-1500 rpm	
Max. stirring capacity	20 L	
Temperature range	RT - 340ºC	
Safety range	360ºC	
Plate material	Ceramic	Stainless steel
Plate Ø	ø 135 mm	
Dimensions	280x160x85 mm	
Weight	2,8 Kg	
Consumption	550 W	

With heating RSLAB-4C

1| Includes PT1000 temperature probe code LBM002

Code	LBD004
Display	LCD
Speed range	100-1500 rpm
Max. stirring capacity	20 L
Temperature range	RT - 550ºC
Safety range	580ºC
Plate material	Glass ceramic
Plate dimensions	184x184 mm
Dimensions	360x215x12 mm
Weight	5,3 Kg
Consumption	1000 W

With heating RSLAB-3C

1| Includes PT1000 temperature probe code LBM002.

Code	LBD003
Display	LED
Speed range	0-1500 rpm
Max. stirring capacity	10 L
Temperature range	RT - 550ºC
Safety range	580ºC
Plate material	Glass ceramic
Plate dimensions	184x184 mm
Dimensions	360x215x112 mm
Weight	4,5 Kg
Consumption	1050 W

LBD - With heating, digital

Digital stirrer with heating RSLAB-11C

Code	LBD005	LBD006
Display	LED	
Speed range	200 - 1500 rpm	
Temperature range	RT - 280ºC	
Safety range	320ºC	
Maximun volume	3 L	
Plate diameter	135 mm	
Plate material	Metallic, ceramic coated	Stainless steel
Dimensions	260 x 150 x 80 mm	
Weight	1,8 Kg	

Digital stirrer with heating mantle round

1| Compatible with flat-bottomed beakers with a capacity of 100 ml, 250 ml, 500 ml, or 1000 ml (LBD015-18), or compatible with round-bottomed flasks with a capacity of 100 ml, 250 ml, 500 ml, or 1000 ml (LBD011-14).
2| Temperature self-calibration function for greater accuracy.
3| Heating mantle made of cotton with high-quality aluminum silicate fiber, offering precise temperature control, uniform heating, and corrosion resistance.
4| Flame-retardant metal exterior for increased safety.
5| Brushless DC motor, explosion-proof, maintenance-free, and with long service life.
6| WARNING SIGNAL when the mantle temperature exceeds 50ºC, even when the mantle is turned off, as long as the power cord is plugged in.
7| Two safety circuits monitor the device. If the sensor fails and overheating occurs, an error code will be generated, and the stirrer will stop heating. In case of a short circuit in the first circuit, the second will cut off the power to protect the user.

Code	LBD011	LBD012	LBD013	LBD014
Capacity	100 mL	250 mL	500 mL	1000 mL
Internal diameter	73 mm	90 mm	119 mm	145 mm
Speed range	200-1500 rpm			
Précision de la vitesse	±20 tr/min			
Display	LCD			
Temperature range	25-280 ºC			
Speed accuracy	± 0,1 ºC			
Warning signal	50 ºC			
External temperature sensor	PT100 (accuracy ± 0,1ºC)			
Indice de protection	IP21			
Dimensions	295x160x160 mm			
Weight	3,7 kg			
Consumption	210 W 240 W 380 W 440 W			

Code	LBD015	LBD016	LBD017	LBD018
For beakers (flat bottom)	100 mL	250 mL	500 mL	1000 mL
Internal diameter	55 mm	73 mm	90 mm	119 mm
Speed range	200-1500 rpm			
Précision de la vitesse	±20 tr/min			
Display	LCD			
Temperature range	25-280 ºC			
Speed accuracy	± 0,1 ºC			
Warning signal	50 ºC			
External temperature sensor	PT100 (accuracy ± 0,1ºC)			
Indice de protection	IP21			
Dimensions	295x160x160 mm			
Weight	3,7 kg			
Consumption	210 W 240 W 380 W 440 W			

LBD - With heating, digital

With heating RSLAB-6C

1| Automatic shutdown function when the temperature is lower than 50ºC.
2| SD card to record equipment operating data in real time
3| Motor type: 24DC, brushless, maintenance free. Protection class: IP21.
4| It has a connector on the back for the connection of an external PT1000 probe (not included) and a 10mm metric thread for placing the kit support for the probe.

Code	LBD010
Display	LCD Backlit
Temperature value readability	0,1 ºC
Speed range	100-1500 rpm
Working temperature and humidity	5-40 ºC, 80%HR
Temperature max.	500 ºC
Safety range	540 ºC
Temperature control accuracy	±1ºC (<100ºC), ±1%(>100ºC)
Max stirring magnet length	80 mm
Maximum stirring capacity	30 L
Plate material	Glass-ceramic
Plate dimensions	254x254 mm
Dimensions	424x328x138 mm
Weight	7,3 kg
Consumption	1700 W
Power	200-240 V, 50/60 Hz

LBG - Without heating, analogical

Mini magnetic stirrer 680

1| It is a robust and duralt is a robust and durable product, as it is made of ABS plastic, allowing resisting minor splashing of almost any chemicof almost any chemical.
2| Simple to use, it has aSimple to use, it has an analog control that allows agitation speed from 100 to 2000 rpm.
3| It is supplied with a It is supplied with a pport rod to use with probes for temperature, pH and a stirring magnet.

Code	LBG001
Speed range	100-2000 rpm
Max. volume	1 L
Plate dimensions	110 mm
Alimentation	Adapter CA 220V/12V
Dimensions (LxAxH)	120x120x50 mm
Weight	0,4 Kg

Magnetic stirrer, 1M - Mini

1| With rod and electrode clamp.
2| Polyethylene Terephthalate (PET) plate with high chemical resistance.
3| High-performance, brushless motor.
4| Silent functioning.

Code	LBG011
Speed range	300 - 2000 rpm
Maximun volume	1,5 L
Plate diameter	120 mm
Aprox. weight	0,3 Kg

LBG - Without heating, analogical

Analogical stirrer RSLAB-11NCA

RS Lab

1| Nylon + GF housing, with good resistance to weak acids and bases.

Code	LBG010
Speed range	10 - 1500 rpm
Maximun volume	3 L
Plate material	Nylon + GF
Plate diameter	135 mm
Approx. dimensions	260x150x80 mm
Approx. weight.	1,8 Kg

Magnetic stirrer, Nahita Blue 682

nahita blue

1| Supplied with rod, clamp and magnet for shaking. Speed Indicator Pilot.

Code	LBG002
Speed range	100 - 1600 rpm
Maximum stirring volume	5 L
Plate material	Metallic, ceramic coated
Plate size	190 x 190 mm
Aprox. dimensions	300x210x 26 mm
Aprox. weight	5 Kg

Without heating RSLAB-1NC

RS Lab

1| Motor with electronic speed control, constant speed even with load change.

Code	LBG003	LBG007
Speed range	0-1500 rpm	
Maximum stirring volume	20 L	
Palte material	Ceramic	Stainless steel
Plate dimensions	ø 135 mm	
Dimensions	280x160x85 mm	
Weight	2,8 Kg	

Without heating RSLAB-1F (flat design)

RS Lab

1| Brushless motor. With anti-reverse system. Only 15 mm thick. IP65 protection.

Code	LBG004
Speed range	15-1500 rpm
Maximum stirring volume	0,80 L
Maximum stirring weight	2 kg
Operation light	Yes
Ø plate	ø 90 mm
Dimensions (LxAxH)	175x120x15 mm
Weight	0,30 Kg

LBG - Without heating, analogical

Analogical stirrer RSLAB-5NC, 10 positions

RS Lab

1| Internal control of the uniformity of the agitation according to the number of positions used. Maintenance-free brushless motor.

Code	LBG005
Speed range	0-1100 rpm
Stirring positions	10
Max volume / positions	0,4 L
Plate material	Silicone coating
Plate size	182x450 mm
Approx. dimensions	182x552x65 mm
Approx. weight	3,2 Kg

Digital stirrer 15 positions MS-T-S15

DLAB

1| Brushless DC motor and powerful magnet ensure fast and accurate stirring speed.
2| Aluminum laser engraving disc surface, anti-slip and anti-abrasive corrosion-proof.
3| 15 stirring positions controlled by 3 independent channels, all channels are available at different speeds and times..

Code	LBG013
Speed range	100 - 1500 rpm
Volume	15x0,4 L
Work surface dimensions	460x304 aluminum
Protection	IP21
Screen	LCD
Power supply	110-220V 50/60Hz; 40W
Approx. dimensions	615x307x90 mm
Approx. weight.	9,2 Kg

LBJ - Without heating, digital

Digital stirrer RSLAB 11 NCD

RS Lab

1| Nylon + GF housing, with good resistance to weak acids and bases.

Code	LBJ001
Display	LED
Speed range	10 - 1500 rpm
Maximun volume	3 L
Plate material	Nylon + GF
Plate diameter	135 mm
Approx. dimensions	260 x 150 x 80 mm
Approx. weight.	1,8 Kg

LBM - Accessories

COMPATIBLE ACCESSORIES - NOT INCLUDED

Temp. probe PT1000
Code *LBM002*

Temp. probe with glass coating
Code *LBM005*

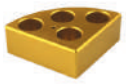
Support kit for probe
Code *LBM003 and LBM004*

Adapter for round bottom flasks 500 mL
Code *LBM009*

Adapter for round bottom flasks 50 mL
Code *LBM006*

Adapter for round bottom flasks100 mL
Code *LBM007*

Adapter for round bottom flasks 200 mL
Code *LBM008*



Poly-block stand
For tubes of 15 mL
Code *LBM015*

Soporte poly-bloc
For tubes of 4 mL
Code *LBM010*

Soporte poly-bloc
For tubes of 20 mL
Code *LBM011*

Soporte poly-bloc
For tubes of 30 mL
Code *LBM012*

Poly-block stand
For tubes of 40 mL
Code *LBM013*

Poly-block stand
For tubes of mL
Code *LBM014*

Support for poly-block stands
Code *LBM016*

Ring for poly block stand
Code *LBM017*

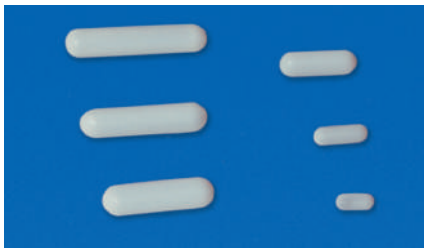
Protective cover
Code *LBM018*

Code	Description	Model					
		1 C	2 C	3 C	4 C	6 C	11 C
LBM002	Temperature sensor Pt1000 f/RSLAB stirrers, 230 mm		■	■	■	■	■
LBM005	PT1000 temperature sensor, glass coated, L 230mm		■	■	■	■	■
LBM003	Support kit for temperature probe PT1000		■	■	■		
LBM004	Support kit for temperature probe PT1000						■
LBM006	Adapter for round bottom flask 50 mL	■	■				■
LBM007	Adapter for round bottom flask 100 mL	■	■				■
LBM008	Adapter for round bottom flask 250 mL	■	■				■
LBM009	Adapter for round bottom flask 500 mL	■	■				■
LBM010	Poly-block red stand with 11 holes for 4 mL tubes	■	■	■	■		■
LBM011	Poly-block purple stand with 4 holes for 20 mL tubes	■	■	■	■		■
LBM012	Poly-block blue stand with 4 holes for 30 mL tubes	■	■	■	■		■
LBM013	Poly-block black stand with 4 holes for 40 mL tubes	■	■	■	■		■
LBM014	Poly-block green stand with 6 holes for 8 mL tubes	■	■	■	■		■
LBM015	Poly-block yellow stand with 4 holes for 16 mL tubes	■	■	■	■		■
LBM016	Blue support for 4 poly-block stands	■	■				■
LBM017	Blue ring for 4 poly-block stands	■	■				■
LBM018	Protective cover resistant up to 135º	■	■				

LDB - Cylindrical magnets

PTFE magnetic stirrer bar

nahita blue



1| Excellent chemical and physical resistance. Withstands up to 275ºC

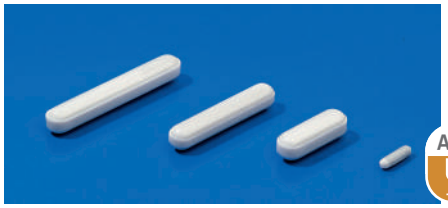
Code	Diameter	Lenght	Lot
LDB001	3 mm	6 mm	**5**
LDB002	4 mm	10 mm	**5**
LDB003	5 mm	15 mm	**5**
LDB004	7 mm	20 mm	**5**
LDB005	8 mm	25 mm	**5**
LDB006	8 mm	30 mm	**5**
LDB007	8 mm	35 mm	**5**
LDB008	8 mm	40 mm	**5**
LDB009	8 mm	45 mm	**5**
LDB010	8 mm	50 mm	**5**
LDB011	8 mm	55 mm	**5**
LDB012	8 mm	60 mm	**5**
LDB013	8 mm	70 mm	**5**
LDB014	10 mm	80 mm	**5**

Kartell

Code	Diameter	Lenght	Lot
LDB019	3 mm	8 mm	**10**
LDB020	3 mm	6 mm	**10**
LDB021	4,5 mm	11,5 mm	**10**
LDB022	4,5 mm	15 mm	**10**
LDB023	6 mm	19,5 mm	**10**
LDB024	6 mm	24,5 mm	**10**
LDB025	6 mm	30 mm	**10**
LDB027	7 mm	50 mm	**10**
LDB026	6 mm	34,5 mm	**10**
LDB028	8 mm	40 mm	**10**
LDB029	8 mm	45 mm	**10**
LDB030	9,5 mm	60 mm	**10**
LDB031	9,5 mm	70 mm	**10**

Stirring bars “economy”

Kartell



Code	Diameter	Lenght	Lot
LDB015	3 mm	12 mm	**10**
LDB016	8 mm	25 mm	**10**
LDB017	8 mm	40 mm	**10**
LDB018	8 mm	50 mm	**10**

LDB - Cylindrical magnets

Magnetic stirring-bar polygon

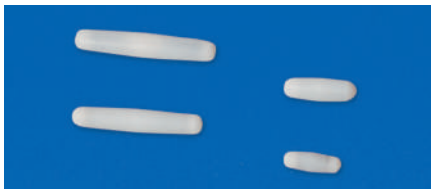
VITLAB

Code	Diameter	Lenght	Lot
LDB501	2 mm	5 mm	**10**
LDB502	2 mm	7 mm	**10**
LDB503	3 mm	8 mm	**10**
LDB504	3 mm	10 mm	**10**
LDB505	3 mm	13 mm	**10**
LDB506	4 mm	12 mm	**10**
LDB507	5 mm	12 mm	**10**
LDB508	6 mm	15 mm	**10**
LDB509	7 mm	20 mm	**10**
LDB510	7 mm	25 mm	**10**
LDB511	7 mm	30 mm	**10**
LDB512	7 mm	40 mm	**10**
LDB513	7 mm	50 mm	**10**
LDB514	7 mm	60 mm	**10**

LDD - Oval magnets

PTFE magnetic stirrer bar

nahita blue



1| Excellent chemical and physical resistance.

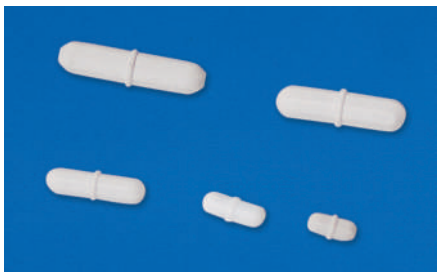
Code	Diameter	Lenght
LDD001	5 mm	10 mm
LDD002	7 mm	15 mm
LDD003	7 mm	18 mm
LDD004	9 mm	25 mm
LDD005	10 mm	30 mm
LDD006	12 mm	25 mm
LDD007	12 mm	35 mm
LDD008	15 mm	45 mm
LDD017	20 mm	40 mm
LDD018	50 mm	20 mm

Kartell

Code	Diameter	Lenght
LDD010	10 mm	20 mm
LDD011	12 mm	25 mm
LDD012	16 mm	30 mm
LDD013	16 mm	35 mm
LDD014	20 mm	40 mm
LDD015	20 mm	50 mm
LDD016	20 mm	64 mm

LDG - Octogonal magnets

PTFE magnetic stirrer bar

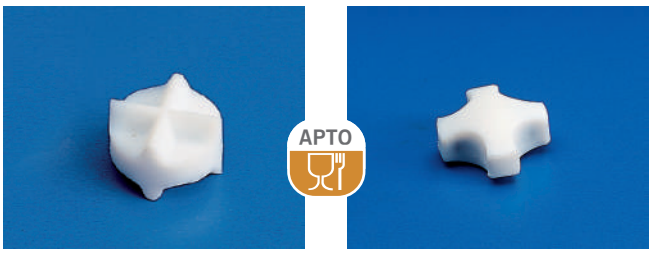


1| Excellent chemical and physical resistance. They withstand up to 275 °C.

Code	Diameter	Lenght	Lot
LDG001	8 mm	15 mm	5
LDG002	8 mm	20 mm	5
LDG003	8 mm	25 mm	5
LDG004	8 mm	30 mm	5
LDG005	8 mm	38 mm	5
LDG006	8 mm	40 mm	5
LDG007	8 mm	50 mm	5
LDG016	8 mm	75 mm	10

Code	Diameter	Lenght
LDG009	6 mm	25 mm
LDG011	6 mm	30 mm
LDG008	6,5 mm	20,5 mm
LDG010	6,5 mm	35 mm
LDG012	7,5 mm	45 mm
LDG013	7,5 mm	50,5 mm
LDG014	9,5 mm	60 mm
LDG015	9,5 mm	70 mm

LDJ - Cross, star shape magnets

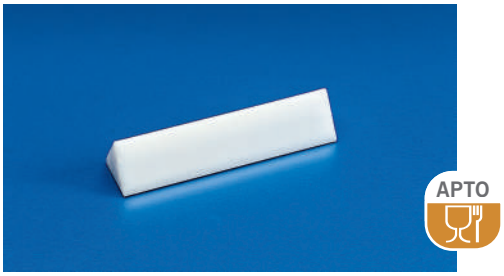


Crosshead *Disc stirring*

Code	Diameter	Lenght
Crosshead		
LDJ001	10 mm	8 mm
LDJ002	14 mm	10 mm
LDJ003	17 mm	13 mm
Disc stirring		
LDJ004	10 mm	6 mm
LDJ005	20 mm	10 mm
LDJ006	30 mm	12 mm

LDM - Triangle magnets

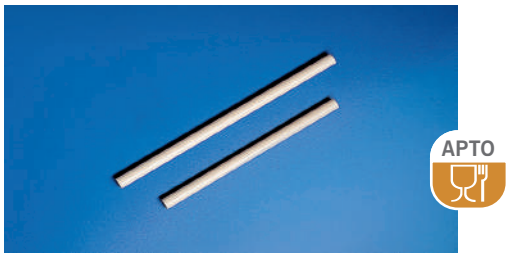
PTFE magnetic stirrer bar



Code	Dimensions
LDM001	5,5x12 mm
LDM002	7,5x25 mm
LDM003	8x34 mm
LDM004	10,5x50 mm

LDP - Other magnets

Stirring bar retrievers



1| PTFE coating.

Code	Lenght
LDP006	300 mm
LDP007	240 mm

Stirrer bar retriever

Code	Lenght	Tip Ø
LDP011	350 mm	10 mm
LDP013	150 mm	9 mm
LDP014	250 mm	9 mm

Box of 18 magnetic stirrer bars

Includes:
- **14 cylindrical stirrer bars of:** 6x4 mm, 10x4 mm, 15x5 mm, 20x7 mm, 25x8 mm, 30x8 mm, 35x8 mm, 40x8 mm, 45x8 mm, 50x8 mm, 55x8 mm, 60x8 mm, 70x8 mm, 80x10 mm
- **1 oval stirrer bar of 50x8 mm**
- **3 octogonal stirrer bars of:** 20x6.5 mm, 30x7.5 mm, 40x10 mm

Code	Description
LDP012	Box of 18 magnetic stirrer bars

LDP - Other magnets

Magnetic stirring bar retrievers, PTFE

1| With PTFE encapsulated magnetic core

Code	Lenght
LDP500	150 mm
LDP501	250 mm
LDP503	300 mm
LDP502	350 mm

Magnetic stirring bar retrievers, PE

1| With a permanent magnet on one end and holding ring on the other one. Magnet is completely encapsulated in a PE mantle

Code	Lenght
LDP504	450 mm

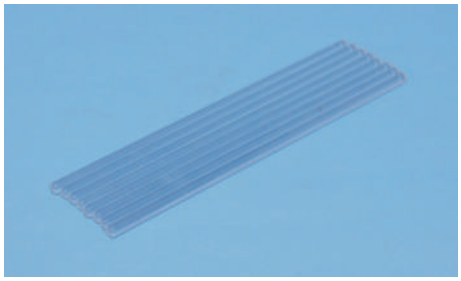
Magnetic stirring bar retrievers, flexible, PTFE

1| Due to the high flexibility, the magnet stir bar can be retrieved from inaccessible locations, e.g., from the water trap in a laboratory sink

Code	Lenght
LDP505	330 mm

LDR - Stirring rods

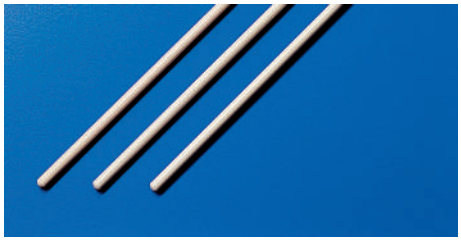
Stirring rod, solid glass



1| Totally inert and with burned out ends. Suitable for stirring all types of solutions.

Code	Shape	Diameter	Lenght
LDR001	Helicoid	5 mm	200 mm
LDR002	Straight	5-6 mm	200 mm
LDR011	Straight	5-6 mm	250 mm
LDR012	Straight	7-8 mm	250 mm
LDR013	Straight	8-9 mm	250 mm
LDR003	Straight	5-6 mm	300 mm
LDR004	Straight	6-7 mm	400 mm
LDR005	Straight	6 mm	500 mm

Stirring rods, PVC



Code	Lenght	Diameter
LDR007	250 mm	7 mm
LDR008	300 mm	7 mm
LDR009	350 mm	7 mm

Policemen stirring rods

1| Spatula shaped ends. Made of polypropylene (PP).

Code	Lenght
LDR010	244 mm

1| Made of white polypropylene. Molded in one piece.Spatula shaped ends.

Code	Lenght
LDR006	244 mm

LGB - Vibrating mixers for tubes

Vortex, RSLAB-6 PRO

1| Adapters securely clicked onto appliance in any position.
2| Specially designed rubber feet for excellent vibration damping. Eccentric with oil-less ball bearings.
3| Provided with a standard top for tubes with diameter <30 mm. (code LGG016). Protection class according to DIN EN60529: IP21.

Code	LGB003
Speed range	0-3000 rpm
Shacking movement	Orbital (diameter 4 mm)
Operation type	Continuous / by contact
Approx. dimensions	127x130x160 mm
Approx. weight	3,5 Kg

Accessories - INCLUDED

Standard top for tubes Ø 30 mm
Code LGG016

Accessories- NOT INCLUDED

Adapter for 48 PCR microtubes, 6 mm
Code LGG010

Adapter for 15 round bottom tubes 10 mm
Code LGG011

Universal top for tube adapters
Code LGG009

Adapter for 8 round bottom tubes 16 mm
Code LGG013

Adapter for 8 round bottom tubes 20 mm
Code LGG014

Adapter for 16 round bottom tubes 12 mm
Code LGG012

Antiskid platform
Code LGG018

Spare rubber foot
Code LGG017

Push rod for adapters
Code LGG015

Vortex model 700

1| The Mini Vortex Model 700 features a low center of gravity design that is compact, sturdy, and easy to operate. Its constant speed ensures it can quickly handle sample mixing.
2| It has a power indicator light, and the oscillating joint is made of wear-resistant silicone.
3| Integrated zinc alloy base and stable operation without shifting during use.

Code	LGB006
Speed	Fixed, 4000 RPM
For tubes	Up to Ø 30 mm
Maximum load	600 gr
Approx. dimensions	100x95x85 mm
Power	100-240VAC 50/60Hz 0.5 A
Consumption	12 W
Approx weight	1 Kg

LGB - Vibrating mixers for tubes

Vortex model 710

1| Adopting advanced design concepts and manufacturing technology, the model features simple appearance with compact and firm structure, ensuring its high universality and easy operation as well as ensuring sufficient counterweight for high stability.
2| Two modes of operation by time and continuous..
3| It has a photosensor to activate/deactivate its operation as well as a digital LCD screen
4| The motor does not generate heat as well as having over-temperature protection, ensuring long-term trouble-free operation.

Code	LGB007
Motor	DC24 V / 1.5 A
Speed range	200-3000 rpm±5%
Circumference diameter	4.5 mm
Screen	LCD
Sensor	IR
Time to full speed	<3s
Braking time	<3 s
Power	20 W

COMPATIBLE ACCESSORIES - INCLUDED

Tube support up to Ø 50 mm
Code LGG030

Flask support up to Ø 85 mm
Code LGG031

1,5 mLx14 tube support
Code LGG032

Vortex, multitube

1| Made of metal, with four suction cup rubber feet.
2| Equipped with emergency stop button, to immediately stop operation of the equipment in case of need.
3| They include 3 types of sponges with different capacities and volumes: for 20 tubes of 50 mL, for 54 tubes of 15 mL, and for 54 tubes of 1.5/2 mL.

Code	LGB004
Speed range	200 – 2500 rpm (steps of 10)
Shacking movement	Orbital ø 3,6 mm
Time range	1 – 59 s; 1-999 min
Programs	0 – 9
Approx. dimensions	425x300x445 mm
Power	100-240 VAC 50/60 Hz
Consumption	90 W
Approx. weight	24 Kg

COMPATIBLE ACCESSORIES - INCLUDED

54 tubes of 1,5/2 mL

54 tubes of 15 mL

20 tubes of 50 mL

LGB - Vibrating mixers for tubes

Multifunctional digital vortex mixer model 720

1| Highly universal and easy to operate vortex shaker for different types of microplates and small tubes.
2| With low center of gravity and anti slip supports.
3| Maintenance-free brushless motor with overheat protection.

Code	LGB008
Speed range	200 – 2500 rpm (steps of 10)
Shacking movement	Orbital ø 3,6 mm
Timer	1 – 999 min; countdown; contact timer
Programs	0 – 9
Approx. dimensions	425x300x445 mm
Power	100-240 VAC 50/60 Hz
Consumption	90 W
Approx. weight	24 Kg

Compatible accessories (included):

Code	Description
LGG033	Adapter for tubes Ø<50 mm
LGG034	Adapter for Ø<85 mm flasks
LGG035	Adapter for microplates
LGG036	Adapter for 30 microtubes of 1.5 mL
LGG037	Adapter for 5 tubes of 15 mL
LGG038	Adapter for 16 tubes of 5/8 mL

Compatible accessories (not included):

Code	Description
LGG039	Adapter for 12 10 mL tubes
LGG040	Adapter for 12 strips of 8 PCR microtubes of 0.2 mL
LGG041	Adapter for 12 tubes of 15 mL
LGG042	Adapter for 2 50 mL tubes
LGG043	Adapter for 4 injection vials

Rocking Mixer “Vibromatic”

1| Electronic control from 100 to 950 oscillations per minute. (1900 vibrations)and timer from 1 to 999 minutes or continuous operation.
2| Easily detachable arms equipped with 8 clamps.

Code	LGB505
Oscilations	100-950
Maximun capacity	4 Kg
Height / Width /Depth	23x77x27
Power	34 W
Weight	11 Kg

LGD - For microplates

Multifunctional digital vortex mixer model 730

1| Microplate shaker with a compact appearance, easy operation, safe, stable, and silent. It features a 3-inch LCD screen displaying the system’s status and operating parameters in real time.
2| Speed and time controlled by a microprocessor. It has a capacity for 4 plates or microplates. Equipped with a power recovery function, the instrument can automatically resume operation according to the original program after a power outage recovery.
3| Convenient fixing bracket for easy and quick installation of microplates.
4| Maintenance-free brushless motor.

Code	LGD003
Speed range	200 – 1500 rpm (steps of 10)
Modes of use	Continuous, pulses
Storage	Up to 10 programs
Ø plate	3 mm
Timer	4 microplates
Time to maximum ascending speed	10 s
Time to maximum descending speed	5 s

LGD - For microplates

RSLAB - 12

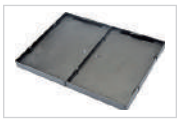
1| Adapter for 1 microplate. Other compatible adapters available.

Code	LGD001
Speed range	0-1500 rpm simple microplate 0-1000 rpm double microplate
Shacking movement	Orbital
Orbital shacking diameter	4,5 mm
Operation type	Continuous
Max. shacking weight	0,5 Kg
Approx. dimensions	260 x 150 x 80 mm
Approx. weight	3 Kg

ACCESSORIES -INCLUDED

Support 1 microplate*
Code *LGG019*

ACCESSORIES - NOT INCLUDED



Support 2 microplates
Code *LGG020*

Support for tube adapters
Code *LGG021*

Adapter for 48 PCR microtubes
Code *LGG010*

Adapter for 15 round bottom tubes
Code *LGG011*

Adapter for 16 round bottom tubes
Code *LGG012*

Adapter for 8 round bottom tube
Code *LGG013*

Adapter for 8 round bottom tubes
Code *LGG014*

Shakers for platelet bags “APL-54” and “APL-108”

1| Epoxy covered case with treated aluminium platform with AISI 304 stainless steel racks for bags.
2| Programable stirring automatic restart and pause device for bags handling (30 ± 90 seconds). Acoustic alarm in case of power failure.

Code	LGD500	LGD501
Model	APL-54	APL-108
Nº of shelves	9	18
Capacity bags	54	108
Height / Width / Depth	40x44x39 cm	40x84x38 cm
Power	50 W	
Voltage	110 / 230 50/60 Hz	
Weight	22Kg	35 kG

LJB - Oscilating

Oscillanting stirrer analogical, 683/10

1| Platform with grooved rubber.

Code	LJB001
Speed	15 rpm
Shaking movement	Swaying
Shaking angle	25º
Maximun shaking capacity	12 tubes
Max. tube size	20x170 mm
Platform material	Grooved rubber
Platform size	255x175 mm
Approx. dimensions	350x200x95 mm
Approx. weight	2,5 Kg

Digital, RSLAB-15

1| Aluminum alloy platform with non-slip coating, included.
2| Includes 8 elastic bands.

Code	LJB003
Speed range	10 – 70 rpm
Shaking movement	Swaying
Shaking angle	9º
Maximun shaking capacity	10 Kg
Operation type	Continuous or timed
Timer	1-1199 min
Approx. dimensions	410 x 360 x 200 mm
Approx. weight.	9,0 Kg

LED Digital Rocking Shaker mod. - SK-R1807-S

1| Continuous operation and programmed time work. Platform with non-slip rubber and included securing elastics.

Code	LJB004
Angle of tilt	7º
Max. shaking weight (with platform)	2 Kg
Speed	10-80 rpm
Weight	3,1 Kg
Dimensions	294X348X123 mm
Power	100-240 V, 50/60 Hz
Consumption	20 W

LJD - Roll and tilt

Tube roller RSLAB-10

1| Allows shaking various types of tubes with different liquid samples, viscous samples, or solid suspensions where minimal aeration is required.

Code	LJD002
Speed range	0-70 rpm
Shaking movement	Rotary and swinging
Rollers	6
Operation type	Continuous
Max. shaking weight	4 Kg
Approx. dimensions	450 x 260 x 120 mm
Approx. weight	4,5 Kg

LJG - Rotative

Analogial multiposition, RSLAB-9

1| Rotor capacity of the "disc" model: 48 x 1,5mL, 16 x 15mL y 8 x 50mL.
2| The "rotisserie" model is supplied with 36 adapters of 1,5 mL, 12 adapters of 15 mL and 12 adapters of 50 mL.

Code	LJG002	LJG001*
Model	RSLAB-9 disc	RSLAB-9 rotisserie
Speed range	0 – 80 rpm	
Shaking movement	Rotational	
Operation type	Continuous	
Approx. dimensions	300x220x310 mm	530x150x190 mm
Approx. weight	2,0 Kg	1,7 Kg

** DLab trademark*

ACCESSORIES (INCLUDED)

Code	Description
LJJ011	Clips of disc accessory for tubes 1,5 ml (pack of 12)
LJJ012	Clips for rotator disc for 15 mL tubes (pack of 12)
LJJ013	Clips for rotator disc for 50 mL tubes (pack of 12)

Digital multiposition, RSLAB-9

1| Rolling action (end-over-end)

Code	LJG004	LJG003
Model	RSLAB-9 digital disk	RSLAB-9 digital roaster
Display	LCD	
Speed range	10-70 rpm	
Shaking movement	Rotational	
Shaking angle	Adjustable from 0º to 90º	
Timer type	Continuous or scheduled	
Timer	1 - 1199 min	
Approx. dimensions	510x190x260 mm	
Approx. weight	8,0 Kg	

Rotisserie model

Horizontally for 48 tubes of 1,5 mL
Code LJJ001

Horizontally for 24 tubes of 15 mL
Code LJJ002

Horizontally for 24 tubes of 50 mL
Code LJJ003

Horizontally for 32 tubes of 1,5 mL
Code LJJ004

Horizontally for 16 tubes of 15 mL
Code LJJ005

Horizontally for 16 tubes of 50 mL
*Code LJJ006**
** included with equipment*

Disc model

Disc for 60 tubes of 1,5 mL
Code LJJ007

Disc for 16 tubes of 15 mL
Code LJJ008

Disc for 8 tubes of 50 mL
*Code LJJ009**
** included with equipment*

4 support rods for accessory disc
Code LJJ010

LJL - 3 D

Digital, RSLAB-14 D

RS Lab

Code	LJL002
Shaking movement	Orbital 3D
Shaking angle	9º
Speed range	10 – 70 rpm
Operation type	Continuous or scheduled
Timer	1 - 1199 min
Max. shaking weight	5 Kg
Platform material	Coated aluminum alloy
Approx. dimensions	430x360x106 mm
Approx. weight	9,0 Kg

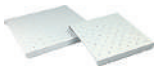
Accessories RSLAB - 14 D - INCLUDED

Platform with 8 rubbers
Code LJS012

Accessories RSLAB - 14 D - NOT INCLUDED

Bar universal for plat with 4 bars
Code LJS007

Plate with 4 bars
Code LJS010



Fixing clip attachement
Code LJS011

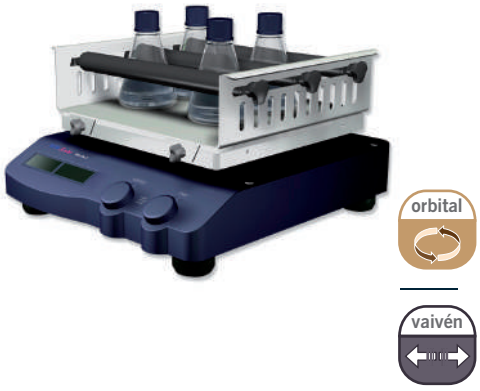
Code	Description
LJS001	Fixation clip for 25 mL Erlenmeyer flasks (the platform can hold 9 clips).
LJS002	Fixation clip for 50 mL Erlenmeyer flasks (the platform can hold 9 clips).
LJS003	Fixation clip for 100 mL Erlenmeyer flasks (the platform can hold 9 clips).
LJS004	Fixation clip for 200/250* mL Erlenmeyer flasks (the platform can hold 4 clips).
LJS005	Fixation clip for 500 mL Erlenmeyer flasks (the platform can hold 2 clips).

**with 3 fixation points instead of 2*

LJN / LJQ - Orbital / Linear

Digital, RSLAB-7 D

RS Lab



1| LCD screen for simultaneous adjustment and display of speed, time, and operating mode.
2| Electronic speed and time adjustment. Includes plate with 3 bars.
3| Control from PC via RS232 interface. Long-life brushless motor without electromagnetic interference. Detection and protection system in case of exceeding the maximum speed. Protection class according to DIN EN60529: IP21.

Code	LJN003	LJQ002
Screen	LCD	LCD
Speed range	100-800 rpm	100-350 rpm
Operation type	Orbital	Linear
Orbital movement	4 mm	-
Operation type	Continuous or scheduled	
Maximum stirring weight	2,5 Kg	
Timer	1 - 1199 min	
Approx. dimensions	340x300x100 mm	
Approx. weight	8,1 Kg	

LJN / LJQ - Orbital / Linear

Accessories RSLAB - 7 D - INCLUDED

Plate with 3 bars
Code *LJS008*

ACCESSORIES - NOT INCLUDED

Fixing clip attachement
Code *LJS009*

Bar universal for plat with 3 bars
Code *LJS006*

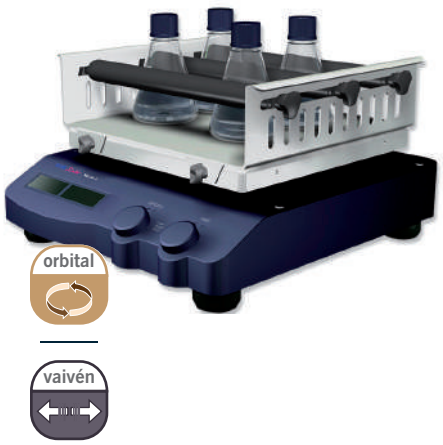
Code	Description
LJS001	Fixation clip for 25 mL Erlenmeyer flasks (the platform can hold 9 clips).
LJS002	Fixation clip for 50 mL Erlenmeyer flasks (the platform can hold 9 clips).
LJS003	Fixation clip for 100 mL Erlenmeyer flasks (the platform can hold 9 clips).
LJS004	Fixation clip for 200/250* mL Erlenmeyer flasks (the platform can hold 4 clips).
LJS005	Fixation clip for 500 mL Erlenmeyer flasks (the platform can hold 2 clips).

**with 3 fixation points instead of 2*

Digital, RSLAB-7 PRO

RS Lab

1| LCD screen for simultaneous adjustment and display of speed, time, and operating mode.
2| Electronic speed and time adjustment.
3| Long-life brushless motor without electromagnetic interference.
4| Includes plate with 4 bars.
5| Detection and protection system in case of exceeding the maximum speed.
6| Control from PC via RS232 interface. Protection class according to DIN EN60529: IP21.



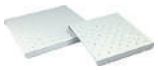
Code	LJN004	LJQ003
Screen	LCD	LCD
Speed range	100-500 rpm	100-350 rpm
Shaking movement	Orbital	Linear
Orbital movement	10 mm	-
Max. shaking weight	7,5 Kg	
Operation type	Continuous or scheduled	
Timer	1 - 1199 min	
Approx. dimensions	420x370x100 mm	
Approx. weight	13,5 Kg	

Accessories RSLAB - 7 PRO - INCLUDED

Plate with 4 bars
Code *LJS010*

Accessories RSLAB - 7 PRO - NOT INCLUDED

Bar universal for plat with 4 bars
Code *LJS007*



Fixing clip attachement
Code *LJS011*

Platform with 8 rubbers
Code *LJS012*

Code	Description
LJS001	Fixation clip for 25 mL Erlenmeyer flasks (the platform can hold 9 clips).
LJS002	Fixation clip for 50 mL Erlenmeyer flasks (the platform can hold 9 clips).
LJS003	Fixation clip for 100 mL Erlenmeyer flasks (the platform can hold 9 clips).
LJS004	Fixation clip for 200/250* mL Erlenmeyer flasks (the platform can hold 4 clips).
LJS005	Fixation clip for 500 mL Erlenmeyer flasks (the platform can hold 2 clips).

**with 3 fixation points instead of 2*

LJN / LJQ - Orbital / Linear

Small size orbital shaker RSLAB-16 D

RS Lab

1| Dual LED screen for independent display of time and speed.
2| Continuous or programmed operation.

Code	LJN005
Speed range	40-200 rpm
Shaking movement	Orbital
Orbital movement	20 mm
Timer	1 min - 99h 59 min
Max. shaking weight	2 Kg
Ambient temperature and humidity	5-40ºC, 80%RH
Platform dimensions	268 x 268 mm
Approx. dimensions (WxDxH)	294 x 348 x 123 mm
Approx. weight	3,1Kg

Orbital Shaker Model 695

nahita blue

1| Orbital shaker with 3-inch LCD screen with real-time display of status and parameters. Microprocessor controlled speed and time, swing speed accurate, stable and no noise. Low power consumption, compact structure and strong load capacity.
2| Equipped with power failure recovery function, the instrument can automatically resume operation according to the original set schedule after power recovery.
3| Practical fixing bracket for quick and easy installation of microplates.
4| Maintenance free brushless motor.

Code	LJN006
Speed range	30-300 rpm
Speed accuracy	30-150 rpm: ±2 rpm ; 150-300 rpm: ±5 rpm
Storage	Up to 10 programs
Oscillation type	Circumference, Ø 10 mm
Timer	1s-999 min
Maximum load	4.5 kg
Protection	IP20
Power	60 W
Power supply	AC 100-250 V/ 50-60 Hz
Weight	13 Kg
Dimensions	345x310x185 mm

Orbital shaker AG-200-A

COMECTA

1| Outdoor furniture in ABS with an adaptive platform for the different models.
2| With anti-slip rubber platform of 26 cm width and 22 cm depth, with 3 rubber covered fastening bars that allow to hold all kind of glass containers, Erlenmeyers, flasks, jars, etc.

Code	LJN505
Rotation frecuency	50-250 RPM
Timer	1 min to 99h 59 min.
Max. weight of shaking	2,5 Kg
Rotation range	20 mm
Power	50 W
Weight	8 Kg

Orbital shaker AG-200-B

COMECTA

1| Outdoor furniture in ABS with an adaptive platform for the different models.
2| With base in treated aluminium of 27 cm. wide and 22 cm. deep with multiadaptor holes to hold adapters for erlenmeyer flasks, with capacities from 50 mL. to 2000 mL.

Code	LJN506
Rotation frecuency	50-250 r.p.m.
Timer	1 min a 99h 59 min.
Max. weight of shaking	2,5 Kg
Rotation range	20 mm
Power	50 W
Weight	8 Kg

LLB - Stirring heads

Digital, RSLAB-13 PRO

nahita blue

1| Digital model, with LCD screen. Large stirring capacity.
2| Plastic housing and stainless steel head.
3| Three stirring modes: clockwise rotation, counterclockwise rotation and clockwise/ counterclockwise alternate rotation. Brushless motor. Motor overload protection.
4| Supplied with stand and stirring rod.

Code	LLB007
Model	687
Max. stirring capacity (L)	40
Speed range (tr/min)	100-2500
Speed accuracy (tr/min)	±1
Fonctionnement continu	Yes
Fonctionnement temporisé	Yes
Viscosité maximale (mPas)	15000
Affichage	LCD
Taille de la base du support (mm)	200 x 300
Type de moteur	Moteur sans balais
Alimentation électrique	100-240V, 50/60Hz
Puissance (W)	80
Poids (kg)	7,5

ACCESSORIES

Stainless steel stirring rod, brand RSLab

Stainless steel crossed stirrer rod*
Code *LLF002*

Stainless steel straight stirrer
Code *LLF003*

Stainless steel blade stirrer
Code *LLF004*

Stainless steel centrifugal stirrer
Code *LLF005*

Universal stand
Code *LLF001*

ACCESSORIES

Stainless steel stirring rod, brand ENDO Plasticware

Code	Description	Length	Diameter
LLF015	Crossed stirrer	380 mm	8 mm
LLF016	Straight stirrer	380 mm	8 mm
LLF017	Blade stirrer	350 mm	8 mm
LLF018	Centrifugal stirrer	250 mm	7 mm
LLF019	Centrifugal stirrer	350 mm	7 mm
LLF020	Centrifugal stirrer	450 mm	7 mm

Digital, RSLAB-13

RS Lab

1| Anti-spill system of the sample. LLF002 stirring rod included. Universal stand (LLF001) not included

Code	LLB004	LLB006
Model	RSLAB-13-20	RSLAB-13-40
Maximum volume	20 L	40 L
Display	LED	
Speed range	50-2200 rpm	
Max. viscosity	10000 mPas	50000 mPas
Max diameter rod	13 mm	
Approx. dimensions	83x220x186 mm	
Approx. weight	2,6 Kg	2,8 Kg

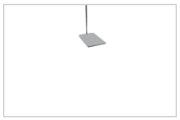
ACCESSOIRES RSLAB - 13

Stainless steel crossed stirrer rod
Code LLF002

Stainless steel straight stirrer
Code LLF003

Stainless steel blade stirrer
Code LLF004

Stainless steel centrifugal stirrer
Code LLF005



Universal stand
Code LLF001

Crossed stirrer PTFE-coated
Code LLF006

Straight stirrer PTFE-coated
Code LLF007

Blade stirrer PTFE-coated
Code LLF008

LNB - Non refrigerated

Shaking incubator

1| Made of ABS plastic, outer casing and base, interior cabinet with type 304 stainless steel sheet and methacrylate lid with opening handle.
2| Maintenance free brushless motor.
3| Contrast color LCD display with black background and white digits.
4| UV lamp for sterilization.
5| It has a contact switch, which when opening the lid disconnects the rotation operation of the incubator.
6| Includes: 8 adapters for 250mL flasks, which arrive placed on the base (included and assembled).

Code	LNB003
Shaking movement	ø 20 mm
Shaking movement	Cyclotron oscillation
Capacity	16x100 mL / 10x250 mL / 6x500 mL
Chamber volume	50 L
Display	LCD
Speed range	30-300 rpm
Temperature range	RT +5° C a +65° C
Timer	0 - 9999 min
Weight	25 kg
Power	220V/2.5A, 50/60Hz

Digital shaker for 4 microplates with incubation

1| Made of ABS plastic, with an exterior casing and base, interior cabin with 304 stainless steel sheet, and a methacrylate lid with an opening handle.
2| Maintenance-free brushless motor.
3| Color LCD screen with black background and white digits.
4| UV lamp for sterilization. Equipped with a contact switch that stops the incubator's rotation when the lid is opened.

Code	LNB004
Speed ragne	200 – 1200 rpm
Temperature range	RT + 3° C a +70° C
Working time	1 min – 99 h 59 min; continuous
Pulse mode	Programmable 30 – 99 seconds
Shaking movement	Orbital, ø 3 mm
Capacity	4 microplates
Max. capacity	4 plates x 348 well x 60 µL
Plataform (LxW)	274 x 188 mm
Dimensions (WxDxH)	365 x 289 x 152 mm
Weight	9.5 Kg
Power	200-240VAC, 1.15 A.
Consumption	276 W
Protection IP	IP21

M | LIQUID HANDLING

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MBB - Manual controllers

Pipette controllers

DIGIPETTE

1| Ergonomic, lightweight and easy to handle with one hand. Lever button for liquid aspiration and ejection.
3| Replaceable Teflon hydrophobic filter for protection of the internal mechanism.

Code	For pipettes	Colour
MBB002	0,1 mL to 100 mL	Blue
MBB004	0,1 mL to 100 mL	Green

Accesorios Profiller 437 manual

Teflon filter 0.45 µm
Code *MBG017*

Pipeteur Profiller 437 manual

SOCOREX SWISS

1| Robust and easy to use pipette controller with ergonomic shape and lightweight. It provides smooth control in both aspirating and dispensing, using glass or plastic pipettes of volume up to 100 mL.
2| Large capacity bulb. Soft action lever button. Efficient blow out system.PTFE protection membrane filter.

Code	Description
MBB006	Profiller Manual 437

Accesorios Profiller 437 manual

Teflon filter 0.45 µm
Code *MBG017*

Pipette controller Maneus

VITLAB

1| The VITLAB maneus® is easy to dismantle and clean, and can be autoclaved at 121°C (2 bar) to DIN EN 285.
2| The suction element then ensures that the pipette is filled quickly (performance: 50 mL in less than 10 seconds).
3| The bellows ensure that the pipettes are blown-out. The specially shaped adapter cone ensures that all standard volumetric and graduated pipettes (0.1 to 200 mL) are securely held in place.

Code	For pipettes
MBB501	From 0,1 to 200 mL

MBD - Electronic controllers

Electronic pipette controller

DIGIPETTE

1| Intuitive and selectable speed with up to 6 levels. Compatible with glass or plastic serological pipettes (0.1 - 100 mL)
2| Ergonomic design for simplified, efficient and fatigue-free pipetting. LCD display.
3| The motor and pump are quiet and powerful, capable of filling a 25 mL pipette in less than 5 seconds. Long life lithium ion battery.

Code	MBD002
Aspiration speed	25mL<5ş (6 levels)
Dispensing Speed	Motor/Gravity
Battery charge	2–3 hours
Filter	0.45 µm hydrophobic

Electronic Pipette Accessories Digipette

Tapered nozzle
Code *MBG014*

Silicone adapter
Code *MBG015*

Teflon filter 0.45 µm
Code *MBG017*

MBG - Controllers, accessories

Pipette controller Profiller electro 447

SOCOREX SWISS

1| Powerful pump - fills 25mL in 3 seconds. Ergonomic buttons.
2| Rechargeable NiMH battery during use.
3| Chemical and shock resistance. Bench stand, wall hanger

Code	Description
MBD004	Pipette controller Profiller electro 447

Accesorios Profiller 447 manual

Teflon filter 0.45 µm
Code *MBG012*
Code *MBG013*

MBJ - Pipette pumps

Manual pipette controller

DIGIPETTE

1| Easy one-handed operation. Grooved wheel for suction and dispensing of liquid.
2| Side lever for quick emptying.
3| Colour coding according to volume.

Code	Volume	Colour	Lot
MBJ007	2 mL	Blue	**10**
MBJ008	10 mL	Green	**10**
MBJ009	25 mL	Red	**10**

MBJ - Pipette pumps

Pipette filler manual Profillette 406

SOCOREX SWISS

1| Easy one-handed operation. Fluted wheel for suction and dispensing.
2| Side lever for quick emptying.
3| Colour coding according to volume.

Code	Volume	Colour	Box
MBJ003	2 mL	Blue	1 / box
MBJ004	10 mL	Green	1 / box
MBJ005	25 mL	Red	1 / box
MBJ006*	2/10/25 mL	Mixed	3 / box

** Package*

MBL - Rubber fillers / teats

Pipetting ball, 3 valves

ENDO plasticware

1| With three valves, for filling, flushing and emptying. For pipettes, calibrated and graduated.

Code	Colour	For pipettes	Lot
MBL019	Red	Up to 10 mL	**10**
MBL020	Green	Up to 100 mL	**10**

Pipetting ball, 3 valves

Kartell

1| With three glass ball valves, adaptable to any pipette
2| A special rubber seal allows you to work with pipettes with a capacity greater than 20 mL.
3| When removing the seal, pipettes with a capacity of less than 20 mL can be used.

Code	Volume
MBL007	20 mL

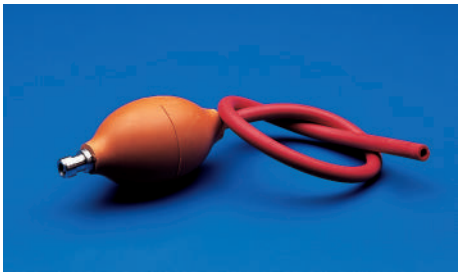
MBL - Rubber fillers / teats

Pear with valve and tube

Kartell

1| Normally used for suction with Pellet Burettes and Nebulizers. Red rubber.

Code	Number of valves	Diameter (mm)
MBL008	1	46
MBL009	2	46



Rubber Richardson pear

ENDO plasticware

1| For automatic table burettes and atomizers.With a decompression tank covered with a safety mesh

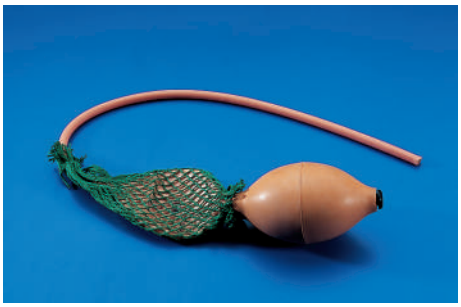
Code	Diameter	Length	Tube:internal diameter
MBL021	46 mm	108 mm	6 mm

Double ball with net

Kartell

1| Used for loading automatic burettes and columns for flash chromatography. Red rubber.

Code	Diameter (mm)
MBL010	46
MBL011	53



Latex dummy teat

Kartell

1| Used with Ranvier dropper and Pasteur pipettes.

Code	Lenght (mm)	Lot
MBL012	40	**100**

MBL - Rubber fillers and teats

Dummy teat

ENDO plasticware

1| Made of latex. For glass Pasteur pipettes

Code	Lot
MBL013	**100**

Rubber teat

ENDO plasticware

1| For graduated pipettes and Pasteur pipettes.

Code	Material	For pipettes	Lot
MBL015	Hard rubber	Pasteur glass	**200**
MBL016	Rubber	Up to 5 mL	**100**
MBL017	Rubber	Up to 10 mL	**10**
MBL018	Rubber	Up to 15 mL	**10**

Universal safety pipette bulb

Kartell

1| Red rubber and silicone pipette aspirator.

Code	MBL022

MDD - Adjustable Volume and Digital Burettes

Dosyproof

DIGIPETTE

1| Gentle, comfortable and effective dispensing Wide chemical compatibility.
2| Autoclavable fully assembled. Easy maintenance and cleaning.
3| For bottles with GL45 thread. Includes adapters for other threads: 28/38/40 and 45 mm.

Code	Volume range	Graduation	Accuracy
MDD001	0.5-5.0 mL	0.1 mL	±25 µL
MDD002	1.0-10.0 mL	0.2 mL	±50 µL
MDD003	2.5-25.0 mL	0.5 mL	±125 µL
MDD004	5.0-50.0 mL	1.0 mL	±250 µL

MDD - Adjustable Volume and Digital Burettes

Dosyproof with Valve

DIGIPETTE

1| Ergonomic design, with smooth piston movement for effortless dispensing
2| The discharge tube rotates 360° allowing dispensing into several containers.
3| Double graduated scale for precise volume adjustment and clear visibility.
4| The recirculation valve eliminates liquid losses during priming. Autoclavable
5| Includes 28/38//40/45 mm thread adapters

Code	Volume range	Graduation	Accuracy
MDD062	0.5-5.0 mL	0.1 mL	±25 µL
MDD063	1.0-10.0 mL	0.2 mL	±50 µL
MDD064	2.5-25.0 mL	0.5 mL	±125 µL
MDD065	5.0-50.0 mL	1.0 mL	±250 µL

Accesories Dosyproof

Thread adapter

Code	Thread	Ø
MDJ052	*S40*	*45/40 mm*
MDJ053	*GL38*	*45/38 mm*
MDJ054	*GL32*	*45/32 mm*
MDJ055	*GL28*	*32/28 mm*

Dispensing tap and tube

Code	Descrip.
MDJ058	*Tap*
MDJ057	*Tube*

Acurex™ compact 501

SOCOREX SWISS

1| Integrated dosing mechanism. Simple and robust construction.
2| Retractable graduated column reduces the height of the instrument
3| The fluid is not in contact with metals along its flow
4| Four container sizes.
5| Fully autoclavable at 121 °C / 250 °F.

Code	Volume	Divisions	Accuracy (%CV)			Capacity*
			Vol. min	Vol. medium	Vol. max	
MDD005	1 – 10 mL	0.2 mL	<0.5%	<0.35%	<0.1%	1000 mL
MDD006	1 – 10 mL	0.2 mL	<0.5%	<0.35%	<0.1%	2000 mL
MDD007	0.2 – 2 mL	0.1 mL	<0.5%	<0.35%	<0.1%	1000 mL
MDD008	0.2 – 2 mL	0.1 mL	<0.5%	<0.35%	<0.1%	2000 mL
MDD009	0.2 – 2 mL	0.1 mL	<0.5%	<0.35%	<0.1%	250 mL
MDD011	0.4 – 5 mL	0.2 mL	<0.5%1)	<0.35%	<0.1%	1000 mL
MDD012	0.4 – 5 mL	0.2 mL	<0.5%1)	<0.35%	<0.1%	2000 mL
MDD013	0.4 – 5 mL	0.2 mL	<0.5%1)	<0.35%	<0.1%	500 mL
MDD010	1 – 30 mL	1.0 mL	<0.5%2)	<0.35%	<0.1%	2000 mL

** of the container*

Acurex™ compact 501 accessories

Tube extension Jet-Pen - Autoclavable

Code	Material	Length	For bottles
MDJ022	*PTFE*	*60 cm*	*1 L and 2 L*

MDD - Adjustable Volume and Digital Burettes

Calibrex™ Organo 525 and Solutae 530 dispenser

SOCOREX SWISS

1| Permanent visibility of the fluid path. Integrated calibration system.
2| Volume adjustment by means of a slide control (alternatively, screw button).
3| Flow control system with stopcock (optional).
4| QR code to access the chemical resistance chart. Always check that the dispenser is suitable for working with the specific reagent before purchasing.
5| Autoclavable at 121ºC, fully assembled.
6| Three bottleneck adapters included.

Chemical resistance CALIBREX Organo and CALIBREX Solutae

organ — Organic — Non-crystallizing — Inert Reagents — Saline solutions — Strong acids and bases* — solutae

* Except for hydrofluoric acid (HF) and certain reagents. Consult chemical resistance tables before purchase.

Organo 525

Code	Description	Volume	Division	Inaccuracy (E%)			Imprecision (E%)		
				Vol.min	Vol medium	Vol max	Vol. min	Vol medium	Vol max
MDD017	Standard	0.1-1 mL	0.02 mL	<± 3,0%	<±1,8%	<±0,6%	<1,2%	<0,7%	<0,17%
MDD018	Standard	0.25-2.5 mL	0.05 mL	<±2,7%	<±1,6%	<±0,6%	<0,9%	<0,55%	<0,17%
MDD019	Standard	0.5-5 mL	0.1 mL	<±2,0%	<±1,3%	<±0,6%	<0,5%	<0,35%	<0,1%
MDD020	Standard	1-10 mL	0.2 mL	<±1,5%	<±1,2%	<±0,6%	<0,5%	<0,85%	<0,1%
MDD024	Standard	2.5-25 mL	0.5 mL	<±1.5%	<±1.1%	<±0.6%	<±0.5%	<±0.35%	<±0.1%
MDD026	Standard	5-50 mL	1.0 mL	<±1.5%	<±1.1%	<±0.6%	<±0.5%	<±0.35%	<±0.1%
MDD028	Standard	10-100 mL	1.0 mL	<±1.5%	<±1.1%	<±0.6%	<±0.5%	<±0.35%	<±0.1%
MDD021	w/stopcock	0.1-1 mL	0.02 mL	<± 3,0%	<±1,8%	<±0,6%	<1,2%	<0,7%	<0,17%
MDD022	w/stopcock	0.25-2.5 mL	0.05 mL	<±2,7%	<±1,6%	<±0,6%	<0,9%	<0,55%	<0,17%
MDD023	w/stopcock	0.5-5 mL	0.1 mL	<±2,0%	<±1,3%	<±0,6%	<0,5%	<0,35%	<0,1%
MDD030	w/stopcock	1-10 mL	0.2 mL	<±1,5%	<±1,2%	<±0,6%	<0,5%	<0,85%	<0,1%
MDD025	w/stopcock	2.5-25 mL	0.5 mL	<±1.5%	<±1.1%	<±0.6%	<±0.5%	<±0.35%	<±0.1%
MDD027	w/stopcock	5-50 mL	1.0 mL	<±1.5%	<±1.1%	<±0.6%	<±0.5%	<±0.35%	<±0.1%
MDD029	w/stopcock	10-100 mL	1.0 mL	<±1.5%	<±1.1%	<±0.6%	<±0.5%	<±0.35%	<±0.1%

Solutae 530

Code	Description	Volume	Division	Inaccuracy (E%)			Imprecision (E%)		
				Vol.min	Vol medium	Vol max	Vol. min	Vol medium	Vol max
MDD031	Standard	0.1-1 mL	0.02 mL	<± 3,0%	<±1,8%	<±0,6%	<1,2%	<0,7%	<0,17%
MDD032	Standard	0.25-2.5 mL	0.05 mL	<±2,7%	<±1,6%	<±0,6%	<0,9%	<0,55%	<0,17%
MDD033	Standard	0.5-5 mL	0.1 mL	<±2,0%	<±1,3%	<±0,6%	<0,5%	<0,35%	<0,1%
MDD034	Standard	1-10 mL	0.2 mL	<±1,5%	<±1,2%	<±0,6%	<0,5%	<0,85%	<0,1%
MDD038	Standard	2.5-25 mL	0.5 mL	<±1.5%	<±1.1%	<±0.6%	<±0.5%	<±0.35%	<±0.1%
MDD040	Standard	5-50 mL	1.0 mL	<±1.5%	<±1.1%	<±0.6%	<±0.5%	<±0.35%	<±0.1%
MDD042	Standard	10-100 mL	1.0 mL	<±1.5%	<±1.1%	<±0.6%	<±0.5%	<±0.35%	<±0.1%
MDD035	w/stopcock	0.1-1 mL	0.02 mL	<± 3,0%	<±1,8%	<±0,6%	<1,2%	<0,7%	<0,17%
MDD036	w/stopcock	0.25-2.5 mL	0.05 mL	<±2,7%	<±1,6%	<±0,6%	<0,9%	<0,55%	<0,17%
MDD037	w/stopcock	0.5-5 mL	0.1 mL	<±2,0%	<±1,3%	<±0,6%	<0,5%	<0,35%	<0,1%
MDD044	w/stopcock	1-10 mL	0.2 mL	<±1,5%	<±1,2%	<±0,6%	<0,5%	<0,85%	<0,1%
MDD039	w/stopcock	2.5-25 mL	0.5 mL	<±1.5%	<±1.1%	<±0.6%	<±0.5%	<±0.35%	<±0.1%
MDD041	w/stopcock	5-50 mL	1.0 mL	<±1.5%	<±1.1%	<±0.6%	<±0.5%	<±0.35%	<±0.1%
MDD043	w/stopcock	10-100 mL	1.0 mL	<±1.5%	<±1.1%	<±0.6%	<±0.5%	<±0.35%	<±0.1%

Accessories Calibrex™ Organo 525 and Solutae 530

Delivery jet

Code	Volume	Longht
MDJ027	*25mL*	*120mm*
MDJ028	*25mL*	*150mm*
MDJ029	*50-100mL*	*120mm*
MDJ030	*50-100mL*	*150mm*

Adapter PP threaded

Code	Ø
MDJ024	*32 mm*
MDJ025	*32 mm*
MDJ026	*32 mm*

Stopcock assembly

Code	For models
MDJ031	*25, 50 and 100 mL*

Jet Pen extension tubing 60 cm

Code	For models
MDJ077	*50 y 100 mL*

MDD - Adjustable Volume and Digital Burettes

Accessories Calibrex™ Organo 525 and Solutae 530

MDJ001 to MDJ013

MDJ015 to MDJ018

Code	Description
MDJ004	Amber glass bottle, 100 mL. Ø screw 32 mm
MDJ007	Amber glass bottle, 250 mL. Ø screw 32 mm
MDJ011	Amber glass bottle, 500 mL. Ø screw 32 mm
MDJ001	Amber glass bottle, 1000 mL. Ø screw 45 mm
MDJ005	Amber glass bottle, 2500 mL. Ø screw 45 mm
MDJ013	Amber glass bottle PE coating thread, 500 mL. Ø screw 32 mm
MDJ003	Amber glass bottle PE coating thread, 1000 mL. Ø screw 45 mm
MDJ009	Amber glass bottle PE coating thread, 2500 mL. Ø screw 45 mm
MDJ008	Transparent borosilicate bottle 250 mL. Ø screw 45 mm
MDJ012	Transparent borosilicate bottle, 500 mL. Ø screw 45 mm
MDJ002	Transparent borosilicate bottle, 1000 mL. Ø screw 45 mm
MDJ006	Transparent borosilicate bottle, 2000 mL. Ø screw 45 mm
MDJ010	Amber glass bottle with handle thread, 2500 mL. Ø screw 45 mm
MDJ014	Transparent glass Pyrex bottle with conection handle, 500 mL. Ø screw 32 mm
MDJ015	Screw cap PE bottle, 250 mL. Ø screw 25 mm
MDJ016	Screw cap PE bottle, 500 mL. Ø screw 25 mm
MDJ017	Screw cap PE bottle, 1000 mL. Ø screw 32 mm
MDJ018	Screw cap PE bottle, 500 mL. Ø screw 45 mm

Dispenser Calibrex™ 520

SOCOREX SWISS

1| Increased chemical resistance. Stable performance over time.
2| Simple construction - no tools required for disassembly.
3| Immediate volume adjustment.
4| Laboratory calibration.
5| Autoclavable at 121 °C / 250 °C, fully assembled.
6| Three bottleneck adapters included.

EXTENDED CHEMICAL LIST|
QR code for instant access to chemical resistance table

Code	Volume	Division	Inaccuracy (%E)			Imprecission (%CV)		
			Vol. min	Vol. medium	Vol. max	Vol. min	Vol. medium	Vol. max
MDD014	0.25-2 mL	0.05 mL	<±3.0%	<±1.8%	<±0.6%	<0.5 %	<0.35 %	<0.1%
MDD015	1-5 mL	0.1 mL	<±2.0%	<±1.3%	<±0.6%	<0.5 %	<0.35 %	<0.1%
MDD016	1-10 mL	0.25 mL	<±1.5%	<±1.1%	<±0.6%	<0.5 %	<0.35 %	<0.1%

Accessories Calibrex™ 520

Adapter, PP threaded

Code	Ø
MDJ032	*22 mm*
MDJ033	*25 mm*
MDJ034	*29 mm*
MDJ035	*30 mm*
MDJ036	*34 mm*
MDJ037	*36 mm*
MDJ038	*38 mm*

Adapter

Code	Description	Ø
MDJ039	*Adapter threaded*	*40 mm*
MDJ040	*Adapter threaded*	*45 mm*
MDJ041	*Teflon threaded*	*36 mm*
MDJ042	*Teflon threaded*	*38 mm*
MDJ043	*Teflon threaded*	*40 mm*
MDJ044	*Teflon threaded*	*45 mm*

Tube extension Jet Pen, 60 cm

Code	Dispenser
MDJ023	*Up to 10 mL*

MDD - Adjustable Volume and Digital Burettes

Simplex²

VITLAB

1| The VITLAB® simplex² is equipped with a direct displacement piston and a PFA fluoroplastic sealing lip that is pressed against the cylinder wall. The glass cylinder's plastic coating reduces the risk of glass shards forming in the event of breakage. The telescopic suction tube can be continuously adjusted to the height of the bottle. The VITLAB® simplex² is fully autoclavable at 121°C (2 bar) to DIN EN 285 and certified to DIN 12600.
2| Easy, quick and precise volume adjustment thanks to a new internal groove and screw mechanism.

Code	Volume	Graduation	GL
MDD501	0.25 - 2.5 ml	0.05 mL	GL32
MDD502	0.5 - 5.0 ml	0.10 mL	GL32
MDD503	1.0 - 10.0 ml	0.20 mL	GL45
MDD504	2.5 - 25.0 ml	0.50 mL	GL45
MDD505	5.0 - 50.0 ml	1.00 mL	GL45
MDD506	10.0 - 100.0 ml	2.00 mL	GL45

Genius²

VITLAB

1| VITLAB® genius² is equipped with a patented feedback valve that prevents loss of reagent during purging. With easy to use calibration function.
2| The VITLAB® genius² is equipped with a direct-displacement piston and a sealing lip made of PFA fluoroplastic which rests against the cylinder wall.
3| VITLAB® genius² is fully autoclavable at 121 °C (2 bar) in accordance with DIN EN 285 and certified in accordance with DIN 12600.

Code	Volume	Subdivision	E*	CV*
MDD507	0.25 - 2.5 ml	0.05 mL	≤±0.6%	≤0.1%
MDD508	0.5 - 5.0 ml	0.10 mL	≤±0.5%	≤0.1%
MDD509	1.0 - 10.0 ml	0.20 mL	≤±0.5%	≤0.1%
MDD510	2.5 - 25.0 ml	0.50 mL	≤±0.5%	≤0.1%
MDD511	5.0 - 50.0 ml	1.00 mL	≤±0.5%	≤0.1%
MDD512	10.0 - 100.0 ml	2.00 mL	≤±0.5%	≤0.1%

MDG - Digital burettes

Digital burettes CONTINUOUS E/RS

VITLAB

1| Large LCD display showing the titrated volume with 4 large, easy-to-read digits.
2| Operation: When both knurled wheels are turned, the titrant is continuously and smoothly delivered by the patented double piston pump (EP 801 982).
3| Height and length-adjustable discharge nozzle.
4| The patented retroactive dosing system (EP 542 241) prevents the loss of valuable reagents and reduces the risk of splashing.
5| Calibration function to meet all the requirements of checking fixtures and fittings.

Certificate for burettes

Code	MDG503
Description	Certificate for burettes CONTINOUS E/RS

Code	Volume	Model	E*	CV*
MDG501	2.5 mL	E	≤±%0.2 à 25 mL	≤±%0.1 à 25 mL
MDG502	5.0 mL	RS	≤±%0.2 à 50 mL	≤±%0.1 à 50 mL

MDG - Digital burettes

Digital burette

DIGIPETTE

1| High quality engine that provides excellent precision and accuracy.
2| Manufactured according to DIN EN ISO 8655.
3| Built-in magnetic stirrer with 5 different programmed speeds.
4| 16 programmed dispensing and aspiration speeds.
5| 4000 mA/h battery with 5 hours working time.

Code	Volume range	Resolution	Temperature
MDG001	0.01-99.99 mL	10 µL	15-40° C

Digital dispenser dFLow

DLAB

1| Manufactured according to DIN EN ISO 8655 standard. Internal components in FEP, with very low chemical reactivity.

Code	Volume max.	Volume range	Resolution
MDG003	10 mL	0.1-99.99 mL	100 µL

MGB - Adjustable volume pipettes

Autoclavable micropipette

DIGIPETTE

1| Unique ergonomic design for comfortable and prolonged use without fatigue.
2| Completely autoclavable without disassembly.
3| Click-stop volume adjustment system.
4| Colour coded for easy identification.
5| Individual calibration certificate according to EN ISO 8655-6.

Code	Volume (µL)	Division (µL)	Vol. test (µL)	Inaccuracy (%)	Imprecission (%)
MGB001	0.1-2.5	0.01	0.25 2.5	12 2.5	6 1.6
MGB002	0.5-10	0.1	1 10	2.5 1	1.5 0.8
MGB003	2-20	0.1	2 20	3 0.9	2 0.4
MGB004	5-50	0.5	5 50	2 0.6	2 0.3
MGB005	10-100	0.5	10 100	3 0.8	1.5 0.15
MGB006	20-200	1	20 200	2 0.6	0.8 0.15
MGB007	100-1000	5	100 1000	2 0.6	0.7 0.2
MGB008	500-5000	50	500 5000	2 0.5	0.6 0.2
MGB009*	500-10000	100	500 10000	3 0.6	0.6 0.2

** without without tip ejector; manual ejection*

MGB - Adjustable volume pipettes

Autoclavable Pipettes, Premium Series

DIGIPETTE

1| Magnet-assisted piston for accurate and consistent results. Innovative spring and seal design for one of the devices with the lowest penetration force. Ergonomic design with the appropriate weight.
2| Precise volume adjustment with built-in locking system.
3| Universal compatibility of tips. Effortless tip ejection thanks to a unique damping mechanism.

Code	Volume µL	Increments µL	Tested Volume µL	Inaccuracy (±) %	Imprecission (±) %
MGB088	0.1-2.5	0.002	0.25 2.5	12 2.5	6 0.7
MGB089	0.5-10	0.02	1 10	2.5 1	1.5 0.4
MGB090	2-20	0.02	2 20	3 0.6	1.5 0.3
MGB091	5-50	0.1	5 50	2 0.6	2 0.3
MGB092	10-100	0.1	10 100	3 0.85	1 0.2
MGB093	20-200	0.2	20 200	2.5 0.6	0.7 0.2
MGB094	100-1000	1	100 1000	3 0.6	0.6 0.2
MGB095	500-5000	10	500 2500 5000	2.4 1.2 0.6	0.6 0.25 0.2
MGB096	1000-10000	20	1000 5000 10000	3 0.8 0.6	0.6 0.2 0.15

Micropipette Acura manual® 825

SOCOREX SWISS

1| Excellence in ergonomics. Light weight and softness in use. Digital display window for permanent volume visibility. Adjustable tip ejector fitting most tips. Swift-set user calibration system. Shock, UV-light and autoclaving resistance (121°C)
** Patented by Socorex*

Code	Volume µl	Division µl	Inaccuracy (%E) Vol. min	Vol. medium	Vol. max	Imprecission (%CV) Vol. min	Vol. medium	Vol. max	Tip type
MGB034	0.1-2	0.002	<± 6.0%[1)]	<± 4.0%	< 2.0%	< 5.0%[1)]	<3.3%	<1.5%	Ultra 10 µl
MGB035	0.5-10	0.01	<± 2.5%[1)]	<± 1.8%	< 1.0%	< 1.8%[2)]	<1.2%	<0.5%	Ultra 10 µl
MGB036	1-10	0.01	<± 2.5%	<± 1.8%	< 1.0%	< 2.5%	<1.6%	<0.7%	200 µl
MGB037	2-20	0.02	<± 2.5%	<± 1.8%	< 1.0%	< 1.7%	<1.1%	<0.5%	200 µl
MGB038	5-50	0.1	<± 1.5%	<± 1.3%	< 1.0%	< 1.0%	<0.7%	<0.4%	200 µl
MGB039	10-100	0.1	<± 1.5%	<± 1.2%	< 0.8%	< 1.0%	<0.6%	<0.2%	200 µl
MGB040	20-200	0.2	<± 1.5%	<± 1.1%	< 0.6%	< 0.6%	<0.4%	<0.2%	200 µl
MGB033	100-1000	1	<± 1.5%	<± 1.0%	< 0.5%	< 0.5%	<0.4%	<0.2%	1000 µl

Values obtained with double-distilled water at a constant temperature (± 0.5°C) between 20 and 25°C according to ISO 8655.
1) measured at 0.5 µl - 2) measured at 1 µl

MGB - Adjustable volume pipettes

Triopack Acura® manual 825

SOCOREX SWISS

1| Three adjustable pipettes.
2| Wide range of volume combinations up to 10 mL
3| Nine different packages.
4| Includes: Qualitix® samples, silicone grease, quality control certificates and instruction manual.

Code	Contains (micropipettes / macropipettes models)		
MGB046	2 µl (0.1-2)	10 µl (0.5-10)	50 µl (5-50)
MGB047	2 µl (0.1-2)	20 µl (2-20)	200 µl (20-200)
MGB048	10 µl (1-10)	50 µl (5-50)	200 µl (20-200)
MGB045	10 µl (1-10)	100 µl (10-100)	1000 µl (100-1000)
MGB044	10 µl (0.5-10)	100 µl (10-100)	1000 µl (100-1000)
MGB043	20 µl (2-20)	200 µl (20-200)	1000 µl (100-1000)
MGB041	100 µl (10-100)	1000 µl (100-1000)	5 ml (0.5-5)
MGB042	50 µl (5-50)	200 µl (20-200)	1000 µl (100-1000)
MGB049	1000 µl (100-1000)	5 ml (0.5-5)	10 ml (1-10)

Values obtained with double-distilled water at a constant temperature (± 0.5°C) between 20 and 25°C according to ISO 8655.

Micropipette Acura® manual 826 XS

SOCOREX SWISS

1| Three adjustable pipettes.
2| Wide range of volume combinations up to 10 mL
3| Nine different packages.
4| Includes: Qualitix® samples, silicone grease, quality control certificates and instruction manual.

Code	Volume	Weight
MGB050	0.1 - 2 µl	84 gr
MGB051	0.5 - 10 µl	84 gr
MGB052	1 - 10 µl	85 gr
MGB053	2 - 20 µl	85 gr
MGB054	5 - 50 µl	86 gr
MGB055	10 - 100 µl	87 gr
MGB056	20-200 µl	86 gr
MGB057	100 - 1000 µl	88 gr

Acura® manual 826 XS Twin pack

SOCOREX SWISS

1| Two adjustable volume pipettes. Shelf support for pipettes.
2| Volume combinations up to 1000 µl
3| Six different packages.

Code	Contains (micropipette)	
MGB058	2 µl (0.1 - 2)	20 µl (2 - 20)
MGB059	10 µl (0.5 - 10)	100 µl (10 - 100)
MGB060	20 µl (2 - 20)	200 µl (20 - 200)
MGB061	50 µl (5 - 50)	200 µl (20 - 200)
MGB062	100 µl (10 - 100)	1000 µl (100 - 1000)
MGB063	200 µl (20 - 200)	1000 µl (100 - 1000)

MGB - Adjustable volume pipettes

Macropipette Acura manual® 835

SOCOREX SWISS

1| Intelligent and reliable volume adjustment. One-handed operation
2| Interchangeable nozzle protection filter
3| Adjustable JustipTM* tip ejector that fits most tips
4| Swift-set user calibration system*
5| Shock, UV and autoclave resistant.
6| Pasteur pipette adapter included in the 2 and 5 ml models
**Patented by Socorex*

PATENTED TIP EJECTION SYSTEM

Ejector button

Adjustable tip ejection

Adjustable tip ejection

Volume Adjustment

Code	Volume ml	Division ml	Inaccuracy (%E) Vol. min	Vol. medium	Vol. max	Imprecission (%CV) Vol. min	Vol. medium	Vol. max	Tip type
MGB066	0.2-2	0.002	<± 1.5%	<± 1.0%	<± 0.5%	< 0.5%	< 0.3%	< 0.2%	2 ml
MGB070[1)]	0.2-2	0.002	<± 1.5%	<± 1.0%	<± 0.5%	< 0.5%	< 0.3%	< 0.2%	2 ml+Pasteur
MGB067	0.5-5	0.01	<± 1.5%	<± 1.1%	<± 0.6%	< 0.6%	< 0.5%	< 0.3%	5 ml
MGB068[1)]	0.5-5	0.01	<± 1.5%	<± 1.1%	<± 0.6%	< 0.6%	< 0.5%	< 0.3%	5 ml+Pasteur
MGB069	1-10	0.01	<± 1.5%	<± 0.7%	<± 0.5%	< 0.5%	< 0.3%	< 0.2%	10 ml

Values obtained with double-distilled water at a constant temperature (± 0.5°C) between 20 and 25°C according to ISO 8655.
1) The model includes a Pasteur nozzle adapter.

Micropipettes accessories

MGY004 and MGY005

Accessories for pipettes Acura 835

Code	Description	Pack
MGY005	PP nozzle filter 10 mL, 30x10.5 mm (lxØ)	50 units
MGY004	PP nozzle filter 2 y 5 mL, 20x7.5 mm (lxØ)	250 units

Microdispenser Acura® self-refill 865

SOCOREX SWISS

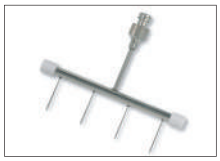
AUTO +121°

1| Excellent ergonomics, smooth activation of the plunger.
2| Large display for volume.
3| Easy calibration in the laboratory.
4| No consumables required.
5| Autoclavable fully assembled at 121ºC and 250ºF.
6| Variable feeding by bottle, tube or syringe.

Code	Volume µl	Division µl	Inaccuracy (%E) Vol. min	Vol. medium	Vol. max	Imprecission (%CV) Vol. min	Vol. medium	Vol. max
MGB072	5-50	0.1	<± 5.0%	<± 3.5%	<± 1.5%	< 2.0%	< 1.4%	< 0.4%
MGB071	20-200	0.2	<± 2.5%	<± 1.8%	<± 1.0%	< 1.5%	< 1.0%	< 0.3%
MGB073	100-1000	1	<± 1.5%	<± 1.1%	<± 0.6%	< 0.6%	< 0.4%	<0.2%

Values obtained with double-distilled water at a constant temperature (± 0.5°C) between 20 and 25°C according to ISO 8655.

Microdispenser Acura® self-refill 865 accessories



Manifold luer lock

Code	Description	Spacing
MGY001	4 channels	9 mm
MGY002	8 channels	20 mm
MGY040	PTFE cannula	

Code	Description	Capacity
MGY041	Reservoir PTFE, luer	30 mL
MGY043	Reservoir PP, luer	30 mL
MGY044	Inlet valve cap	
MGY045	Vial holder with feed needle and lock	

Autoclavable pipette, adjustable volume

VITLAB

1| Large ergonomic tip ejection button for quick tip replacement. Easy volume adjustment for left- and right-handed users.
2| Accurate 4-digit volume display with magnification function for optimum readability.
3| Colour-coded for easy selection of appropriate pipette tip. Ergonomic handle for easy handling. Corrosion-resistant piston and ejector for long life. Fully autoclavable.

Code	Volume	E*	CV*	Tips type
MGB501	0.5 - 10.0 µl	≤±% 1.0	≤% 0.5	20
MGB502	2.0 - 20. 0 µl	≤±% 0.8	≤% 0.4	200
MGB503	10.0 - 100.0 µl	≤±% 0.6	≤% 0.2	200/300
MGB504	20.0 . 200.0 µl	≤±% 0.6	≤% 0.2	200/300
MGB505	100.0 - 1000.0 µl	≤±% 0.6	≤% 0.2	1000
MGB506	500.0 - 5000.0 µl	≤±% 0.6	≤% 0.2	5000
MGB507	1000.0 - 10000.0 µl	≤±% 0.6	≤% 0.2	10000

MGD - Fixed volume pipette

Autoclavable micropipette

DIGIPETTE

1| Unique ergonomic design for comfortable and prolonged use without fatigue.
2| Completely autoclavable without disassembly. Colour coded for easy identification.
3| Individual calibration certificate according to ISO 8655 standards.

Code	Volume	Inaccuracy (E%)	Imprecission (CV%)
MGD001	10 µl	< ± 0.8 %	< 0.8 %
MGD002	20 µl	< ± 0.6 %	< 0.5 %
MGD003	25 µl	< ± 0.5 %	< 0.3 %
MGD004	50 µl	< ± 0.5 %	< 0.3 %
MGD005	100 µl	< ± 0.5 %	< 0.3 %
MGD006	200 µl	< ± 0.4 %	< 0.2 %
MGD007	500 µl	< ± 0.3 %	< 0.2 %
MGD008	1000 µl	< ± 0.3 %	< 0.15 %

Micropipette accessories

Micropipette support*

Code	Volume
MGT001	*Stand for 6 micropipettes*

** made of acrylic*

MGD - Fixed volume pipette

Micropipette Acura® manual 815

SOCOREX SWISS

1| Ergonomic design and lightness. Smooth piston activation. Adjustable JustipTM tip ejector * fits most tips. User calibration with integrated key. Colour-coded smartie cap.
**Patented by Socorex*

Code	Volume µl	Inaccuracy (E%)	Imprecision (CV%)	Tip type
MGD014	1	< ± 2.0%	< 1.0%	Ultra 10 µl
MGD015	5	< ± 1.4%	< 1.0%	Ultra 10 µ
MGD016	10	< ± 0.7%	< 0.7%	Ultra 10 µl
MGD017	10Y	< ± 0.7%	< 0.8%	200 µl
MGD018	15	< ± 0.7%	< 0.5%	200 µl
MGD019	20	< ± 0.75%	< 0.5%	200 µl
MGD020	25	< ± 0.7%	< 0.6%	200 µl
MGD021	30	< ± 0.7%	< 0.6%	200 µl
MGD022	32	< ± 0.7%	< 0.6%	200 µl
MGD023	40	< ± 0.7%	< 0.5%	200 µl
MGD024	50	< ± 0.7%	< 0.4%	200 µl
MGD025	60	< ± 0.7%	< 0.5%	200 µl
MGD026	70	< ± 0.7%	< 0.4%	200 µl
MGD027	75	< ± 0.7%	< 0.4%	200 µl
MGD028	80	< ± 0.7%	< 0.35%	200 µl
MGD029	90	< ± 0.7%	< 0.3%	200 µl
MGD030	100	< ± 0.7%	< 0.3%	200 µl
MGD031	120	< ± 0.7%	< 0.4%	200 µl
MGD032	150	< ± 0.7%	< 0.3%	200 µl
MGD033	200	< ± 0.7%	< 0.3%	200 µl
MGD034	250	< ± 0.7%	< 0.4%	1000 µl
MGD035	300	< ± 0.7%	< 0.4%	1000 µl
MGD036	400	< ± 0.7%	< 0.3%	1000 µl
MGD037	500	< ± 0.7%	< 0.3%	1000 µl
MGD038	600	< ± 0.7%	< 0.3%	1000 µl
MGD039	700	< ± 0.7%	< 0.2%	1000 µl
MGD040	750	< ± 0.7%	< 0.2%	1000 µl
MGD041	800	< ± 0.7%	< 0.2%	1000 µl
MGD042	900	< ± 0.7%	< 0.2%	1000 µl
MGD013	1000	< ± 0.6%	< 0.2%	1000 µl

Macropipette Acura manual® 835 F

SOCOREX SWISS

1| Unique ergonomic design for comfortable and prolonged use without fatigue.
2| Completely autoclavable without disassembly.
3| Colour coded for easy identification.
4| Individual calibration certificate according to ISO 8655 standards.

Code	Volume mL	Inaccuracy (E%)	Accuracy (CV%)	Tip
MGD043	2	< ± 0.8%	< 0.5%	2 mL
MGD044	2.5	< ± 0.8%	< 0.5%	5 mL
MGD045	5	< ± 0.7%	< 0.3%	5 mL
MGD046	10	< ± 0.5%	< 0.2%	10 mL

Micropipette Digipette Junior

DIGIPETTE

1| Compact design fixed volume micropipette with height of 130mm. Calibrated according to the ISO8655-6 standard. Fully autoclavable.

Code	Nominal volume (µL)	Test volume (µL)	Inaccuracy (±)%	Imprecision (±)%
MGD095	5	5	1,3	1,2
MGD096	10	10	0,8	0,8
MGD097	20	20	0,6	0,5
MGD098	25	25	0,5	0,3
MGD099	50	50	0,5	0,3
MGD100	100	100	0,5	0,3
MGD101	200	200	0,4	0,2

MGD - Fixed volume pipette

Minifix

Kartell

1| Fixed-volume. Air displacement. Totally autoclavable.Designed for fast, repetitive and precise operations. Length 13cm, weight 10g.

Code	Volume	Accuracy (E%)	Precicion (CV%)
MGD050	5 µl	± 1.5	± 1.0
MGD051	10 µL	± 1.0	± 1.0
MGD052	20 µl	± 0.5	± 0.5
MGD053	25 µl	± 0.5	± 0.5
MGD054	50 µl	± 0.4	± 0.3
MGD055	100 µl	± 0.3	± 0.3
MGD056	200 µl	± 0.3	± 0.2
MGD057	250 µl	± 0.3	± 0.2
MGD058	500 µl	± 0.3	± 0.2
MGD059	1000 µl	± 0.3	± 0.2

MGG - Multichannel pipette

Autoclavable micropippettes

DIGIPETTE

1| Widely used in immunology, biochemistry, clinical diagnosis and food analysis.
2| Suitable for handling microtiter plates in dilution processes and washing steps among others. 360° rotating and detachable head for autoclaving.
3| Identification by colour code.

Code	Range Vol. µl	Res. µl	Test Vol. µl	Inaccuracy (±) %	Imprecission (±) %
8 Channels					
MGG001	0.5-10	0.1	1 10	4 1.5	4 1.5
MGG002	5-50	0.5	5 50	3 1	2 0.7
MGG003	10-100	1	10 100	1.5 1	1.5 0.5
MGG004	20-200	1	20 200	1.5 0.7	0.75 0.25
MGG005	30-300	1	30 300	1.5 0.8	0.75 0.25
12 Channels					
MGG006	0.5-10	0.1	1 10	4 1.5	4 1.5
MGG007	5-50	0.5	5 50	3 1	2 0.7
MGG008	10-100	1	10 100	1.5 1	1.5 0.5
MGG009	20-200	1	20 200	1.5 0.7	0.75 0.25
MGG010	30-300	1	30 300	1.5 0.8	0.75 0.25

MGG - Multichannel pipette

Premium Autoclavable Micropipette

DIGIPETTE

1| Pipetting with minimum effort and high precision thanks to:
- Magnet-assisted piston for precise and consistent results.
- Innovative spring and seal design for one of the lowest activation force pipettes.
- Ergonomic design with the right weight.

2| Precise volume adjustment with built-in locking system.
3| Includes Factory Calibration Report (according to ISO 8655-6 in ISO 17025 accredited laboratory).
4| Universal tip compatibility. Effortless tip ejection due to unique damping mechanism.
5| 360° rotatable volumetric module for flexible and effortless rotation.

Code	Range	Increment
8 Channels		
MGG028	0,5-10 µl	0,02 µl
MGG029	2-20 µl	0,02 µl
MGG030	5-50 µl	0,1 µl
MGG031	10-100 µl	0,1 µl
MGG032	20-200 µl	0,2 µl
MGG033	30-300 µl	0,2 µl
12 Channels		
MGG034	0,5-10 µl	0,02 µl
MGG035	2-20 µl	0,02 µl
MGG036	5-50 µl	0,1 µl
MGG037	10-100 µl	0,1 µl
MGG038	20-200 µl	0,2 µl
MGG039	30-300 µl	0,2 µl

Acura® manual 855

SOCOREX SWISS

1| 8 and 12 channel models, up to 350 µl.
2| Lightness and perfect adaptation to the hand.
3| Precision digital display always visible.
4| Adjustable JustipTM* tip ejector that fits most tips.
5| Swift-set user calibration system*.
6| 360° rotation of the volumetric module.
** Patented by Socorex*

360° rotation

Multichannel vessel

Code	Volume µl	Division µl	Inaccuracy (%E) Vol. min	Vol. medium	Vol. max	Imprecision (%CV) Vol. min	Vol. medium	Vol. max	Tip Type
12 Channels									
MGG016	0.5 - 10	0.01	<± 3.5%[1)]	<± 2.5%	<± 1.5%	< 3.0%[1)]	< 2.0%	< 1.0%	Ultra 10 µl
MGG017	5 - 50	0.1	<± 1.0%	<± 0.9%	<± 0.8%	< 1.0%	< 0.7%	< 0.4%	200 µl
MGG018	20 - 200	0.2	<± 0.9%	<± 0.8%	<± 0.7%	< 0.6%	< 0.5%	< 0.3%	200 µl
MGG019	40 - 350	0.4	<± 1.0%	<± 0.9%	<± 0.8%	< 0.6%	< 0.5%	< 0.3%	350 µl
8 Channels									
MGG020	0.5 - 10	0.01	<± 3.5%[1)]	<± 2.5%	<± 1.5%	< 3.0%[1)]	< 2.0%	< 1.0%	Ultra 10 µl
MGG021	5 - 50	0.1	<± 1.0%	<± 0.9%	<± 0.8%	< 1.0%	< 0.7%	< 0.4%	200 µl
MGG024	10-100	0.1	<± 1.0%	<± 0.9%	<± 0.8%	< 0.9%	< 0.6%	< 0.4%	200 µl
MGG022	20 - 200	0.2	<± 0.9%	<± 0.8%	<± 0.7%	< 0.6%	< 0.5%	< 0.3%	200 µl
MGG023	40 - 350	0.4	<± 1.0%	<± 0.9%	<± 0.8%	< 0.6%	< 0.5%	< 0.3%	350 µl

MGJ - Repeater pipettes

Repeater pipette Stepper™ 416

SOCOREX SWISS

1| Activation with 4 fingers. Self-locking mechanism.
2| Colour-coded setup buttons provide clear indication of volumes and number of aliquots.
3| Three colour-coded positive displacement syringes (Ecostep™ syringes)

Code MGJ003

Number aliquots	73	49	36	29	24	20	18	15	14	12	11	10	9	8	8	7	7	7	6
Volume µL	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Volume µL	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500
Volume µL	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000

Stepper™ 416 accessories

Syringe Ecostep™

Code	Capacity	Volume	Sterile	Packaging
MJV025	*0.75 mL*	*10-100 µL*	*No*	*100*
MJV028	*0.75 mL*	*10-100 µL*	*Yes*	*50*
MJV026	*3.75 mL*	*50-500 µL*	*No*	*100*
MJV027	*3.75 mL*	*50-500 µL*	*Yes*	*50*
MJV029	*37.5 mL*	*500-5000 µL*	*No*	*100*
MJV030	*37.5 mL*	*500-5000 µL*	*Yes*	*50*

Replacement adaptor Ecostep™ red

Code *MJV031*

Work station for Stepper ™

Code *MGT020*

Manual dispenser

DIGIPETTE

1| Ideal for speeding up long repetitive pipetting series. Lightweight and ergonomic for one-handed operation without fatigue. Suitable for all viscosities with guaranteed precision and accuracy. Safety design to avoid pipette contamination or cross-contamination.

Code	Description
MGJ001	Manual dispenser Digipette 10 - 5000 µl

Accessories - Pipette Syringes

Code	Capacity	Volume	Sterile	Packaging
MJV017	*0.5 mL*	*100-500 µL*	*±0,6%*	*10*
MJV020	*5 mL*	*100-500 µL*	*±0,6%*	*10*

MGM - Electronic pipettes

Digital pipette DosyPette

DIGIPETTE

1| Pipetting, mixing, multi-dispensing (step-by-step) and dilution functions
2| High performance motorized control ensures high accuracy and repeatability and eliminates possible errors in manual pipetting
3| Self-calibration: by connecting to the PC via the USB port, the user can perform the calibration of the pipette using the specific software.
4| Autoclavable bottom module. Adjustable aspiration and dispensing speed

Code	Volume (uL)	Increment (uL)	Vol. test (uL)	Inaccuracy (uL)	Inaccuracy %	Imprecission SD (uL)	Imprecission CV%
MGM039	0.5-10	0.01	10	± 0.10	± 1.0	0.05	0.50
			1	± 0.03	± 3.5	0.03	3.00
MGM040	5-50	0.1	50	± 0.40	± 0.80	0.15	0.30
			5	± 0.15	± 3.00	0.12	2.50
MGM041	30-300	1	300	± 1.80	± 0.60	0.60	0.20
			30	± 0.9	± 3.00	0.21	0.70
MGM042	100-1000	5	1000	± 6.00	± 0.60	2.00	0.20
			100	± 3.00	± 3.00	0.60	0.60

MGM - Electronic pipettes

Acura® electro: 926XS (micro), 936 (macro), 956 (multichannel)

SOCOREX SWISS

1| Optimised, lightweight ergonomics. Easy and intuitive self-learning program.
2| Large reversible display for left/right reading.
3| Quickly interchangeable battery. Quick charge, long working autonomy.
4| Adjustable ejector* to fit most tips.
5| Pipetting cycle counter.
6| 27 interchangeable volumetric modules, all fit into the same control unit.
7| Adjustable pipetting speed.
**Patented by Socorex.*

Starter Pack
Recommended when purchasing an Acura Electro for the first time. Each starter pack includes: electronic pipette, quality control certificate, instruction manual, charging stand, power supply, additional battery pack and samples of pipette tips.

Code	Volume	Division	Inaccuracy (E%)		Accuracy (CV%)		Tip
			Vol. min.	Vol. max.	Vol. min.	Vol. max.	
Acura® Electro 926XS Micropipettes							
MGM002	0.1 – 2 µl	0.01 µl	<+/- 2.5 % [1]	<+/- 0.9 %	< 2.5 % [1]	< 0.8 %	Ultra 10 µl
MGM003	0.5 - 10 µl	0.05 µl	<+/- 1.2 % [2]	<+/- 0.6 %	< 1.5 % [2]	< 0.35 %	Ultra 10 µl
MGM004	0.5 - 10 µl	0.05 µl	<+/- 1.2 % [2]	<+/- 0.6 %	< 1.7 % [2]	< 0.4 %	200 µl
MGM005	1 - 20 µl	0.1 µl	<+/- 1.2 % [2]	<+/- 0.5 %	< 1.2 % [2]	< 0.3 %	200 µl
MGM006	2.5 - 50 µl	0.25 µl	<+/- 1.0 % [2]	<+/- 0.5 %	< 0.7 % [2]	< 0.25 %	200 µl
MGM007	5 - 100 µl	0.5 µl	<+/- 1.0 % [2]	<+/- 0.5 %	< 0.7 % [2]	< 0.2 %	200 µl
MGM013	10 - 200 µl	1.0 µl	<+/- 1.0 % [2]	<+/- 0.4 %	< 0.6 % [2]	< 0.15 %	200 µl
MGM001	50 - 1000 µl	5.0 µl	<+/- 0.8 % [2]	<+/- 0.4 %	< 0.4 % [2]	< 0.1 %	1000 µl
Acura® Electro 936 Micropipettes							
MGM020	0.1 - 2 ml	0.01 ml	<+/- 1.5 % [2]	<+/- 0.5 %	< 0.6 % [2]	< 0.15 %	2 ml
MGM021	0.25 - 5 ml	0.05 ml	<+/- 1.2 % [2]	<+/- 0.5 %	< 0.6 % [2]	< 0.15 %	5 ml
MGM022	0.5 - 10 ml	0.05 ml	<+/- 1.0 % [2]	<+/- 0.5 %	< 0.5 % [2]	< 0.15 %	10 ml
Acura® Electro 956 Pipettes, 8 Channels							
MGM031	0.5 - 10 µl	0.05 µl	<+/- 3.5 % [2]	<+/- 1.0 %	< 3.0 % [2]	< 0.7 %	Ultra 10 µl
MGM037	2.5 - 50 µl	0.25µl	<+/- 1.0 % [2]	<+/- 0.8 %	< 1.0 % [2]	< 0.4 %	200 µl
MGM033	10 - 200 µl	1.0 µl	<+/- 0.9 % [2]	<+/- 0.6 %	< 0.6 % [2]	< 0.25 %	200 µl
MGM035	20 - 350 µl	5.0 µl	<+/- 1.0 % [2]	<+/- 0.6 %	< 0.6 % [2]	< 0.25 %	350 µl
Initial Pack of Acura® Electro 926XS Micropipettes							
MGM008	0.1 – 2 µl	0.01 µl	<+/- 2.5 % [1]	<+/- 0.9 %	< 2.5 % [1]	< 0.8 %	Ultra 10 µl
MGM009	0.5 - 10 µl	0.05 µl	<+/- 1.2 % [2]	<+/- 0.6 %	< 1.5 % [2]	< 0.35 %	Ultra 10 µl
MGM010	0.5 - 10 µl	0.05 µl	<+/- 1.2 % [2]	<+/- 0.6 %	< 1.7 % [2]	< 0.4 %	200 µl
MGM011	1 - 20 µl	0.1 µl	<+/- 1.2 % [2]	<+/- 0.5 %	< 1.2 % [2]	< 0.3 %	200 µl
MGM012	2.5 - 50 µl	0.25 µl	<+/- 1.0 % [2]	<+/- 0.5 %	< 0.7 % [2]	< 0.25 %	200 µl
MGM014	5 - 100 µl	0.5 µl	<+/- 1.0 % [2]	<+/- 0.5 %	< 0.7 % [2]	< 0.2 %	200 µl
MGM015	10 - 200 µl	1.0 µl	<+/- 1.0 % [2]	<+/- 0.4 %	< 0.6 % [2]	< 0.15 %	200 µl
MGM016	50 - 1000 µl	5.0 µl	<+/- 0.8 % [2]	<+/- 0.4 %	< 0.4 % [2]	< 0.1 %	1000 µl
Initial Pack of Acura® Electro 956 Pipettes, 8 Channels							
MGM032	0.5 - 10 µl	0.05 µl	<+/- 3.5 % [2]	<+/- 1.0 %	< 3.0 % [2]	< 0.7 %	Ultra 10 µl
MGM038	2.5 - 50 µl	0.25µl	<+/- 1.0 % [2]	<+/- 0.8 %	< 1.0 % [2]	< 0.4 %	200 µl
MGM034	10 - 200 µl	1.0 µl	<+/- 0.9 % [2]	<+/- 0.6 %	< 0.6 % [2]	< 0.25 %	200 µl
MGM036	20 - 350 µl	5.0 µl	<+/- 1.0 % [2]	<+/- 0.6 %	< 0.6 % [2]	< 0.25 %	350 µl
Initial Pack of Acura® Electro 956 Pipettes, 12 Channels							
MGM024	0.5 - 10 µl	0.05 µl	<+/- 3.5 % [2]	<+/- 1.0 %	< 3.0 % [2]	< 0.7 %	Ultra 10 µl
MGM030	2.5 - 50 µl	0.25 µl	<+/- 1.0 % [2]	<+/- 0.8 %	< 1.0 % [2]	< 0.4 %	200 µl
MGM026	10 - 200 µl	1.0 µl	<+/- 0.9 % [2]	<+/- 0.6 %	< 0.6 % [2]	< 0.25 %	200 µl
MGM028	20 - 350 µl	5.0 µl	<+/- 1.0 % [2]	<+/- 0.6 %	< 0.6 % [2]	< 0.25 %	350 µl

Values obtained in advanced mode with double-distilled water at a constant temperature (± 0.5°C) between 20 and 25 °C, according to ISO 8655. Average throughput at: 1) 0.5 µl, 2) 10% of nominal volume

MGP - Electronic pipettes, modules

Short vol, module for Acura electro

SOCOREX SWISS

Code	Vol. range	Type of tip
Reduced handle length		
MGP022	0.1 - 2 µl	Ultra 10 µl
MGP026	0.5 - 10 µl	Ultra 10 µl
MGP024	0.5 - 10 µl	200 µl
MGP009	1 - 20 µl	200 µl
MGP012	2.5 - 50 µl	200 µl
MGP007	5 - 100 µl	200 µl
MGP019	10 - 200 µl	200 µl
MGP014	50 - 1000 µl	1000 µl
Normal handle length		
MGP023	0.1 - 2 µl	Ultra 10 µl
MGP027	0.5 - 10 µl	Ultra 10 µl
MGP025	0.5 - 10 µl	200 µl
MGP008	1 - 20 µl	200 µl
MGP011	2.5 - 50 µl	200 µl
MGP006	5 - 100 µl	200 µl
MGP018	10 - 200 µl	200 µl
MGP013	50 - 1000 µl	1000 µl
Single channel macroVolumes		
MGP003	0.1 - 2 mL	2 mL
MGP020	0.25 - 5 mL	5 mL
MGP001	0.5 - 10 mL	10 mL

Microvolumes of 8 and 12 channels

SOCOREX SWISS

Code	Vol. range	Type of tip
8 channels		
MGP021	0.5 - 10 µl	Ultra 10 µl
MGP002	2.5 - 50 µl	200 µl
MGP004	10 - 200 µl	200 µl
MGP005	20 - 350 µl	350 µl
12 channels		
MGP010	0.5 - 10 µl	Ultra 10 µl
MGP015	2.5 - 50 µl	200 µl
MGP016	10 - 200 µl	200 µl
MGP017	20 - 350 µl	350 µl

MGR - Other types of pipettes

Acura® dilute 810 (Pipette dilution 1:10)

SOCOREX SWISS

1| Two pre-calibrated fixed volumes - no adjustment required.
2| Smooth activation, excellent ergonomics.
3| Interchangeable PE nozzle protection filter.
4| JustipTM system to adjust the height of the tip ejector.
5| Independent calibration for each volume. Fully autoclavable at 121°C / 250 °F.

Code	Inaccuracy. (E%)	Imprecission (CV %)	Volume
MGR001	< ± 0.5%	< 0.4%	1 mL
	< ± 2.0%	< 2.5%	0.1 mL

Values obtained with double-distilled water at a constant temperature (± 0.5°C) between 20 and 25°C according to ISO 8655.

Acura® dilute 810 accessories

Code	Description	Pack
MGY006	PE nozzle filter 6.3x2.5 mm	100 units.

MGR - Other types of pipettes

Acura® capillar 846 (micropipette positive displacement)

SOCOREX SWISS

1| Gravity volume adjustment. The tip is a glass capillary tube.
2| Corresponding colour codes for pipette, plunger and capillary.
3| Stainless steel plunger with Ethylene-TetraFluoroEthylene (ETFE) tip.

Code	Volume	Inaccuracy (%E)			Imprecission (%CV)		
		Vol. min	Vol. medium	Vol. max	Vol. min	Vol. medium	Vol. max
MGR002	1-2-3-4-5 µl	<± 3.0%	<± 2.3%	<± 2.0%	< 2.5%	< 2.0%	< 1.2%
MGR003	5-10-15-20-25 µl	<± 1.5%	<± 1.2%	<± 0.8%	< 1.0%	< 0.9%	< 0.6%
MGR004	10-20-30-40-50 µl	<± 1.5%	<± 1.0%	<± 0.7%	< 0.8%	< 0.7%	< 0.4%
MGR005	60-75-80-90-100 µl	<± 0.7%	<± 0.7%	<± 0.7%	< 0.6%	< 0.5%	< 0.3%
MGR006	100-120-150-175-200 µl	<± 0.7%	<± 0.7%	<± 0.7%	< 0.3%	< 0.3%	< 0.3%

Micropipettes accessories

Capillary tube

Code	Volume	Colour	Pack
MGY007	1-5 µl	White	200/box
MGY008	5-25 µl	White	200/box
MGY009	10-50 µl	Green	200/box
MGY010	60-100 µl	Blue	200/box
MGY011	100-200 µl	Red	200/box

Spare plunger

Code	Volume	Colour	Pack
MGY012	1-5 µl	Steel	5/box
MGY013	5-25 µl	White	5/box
MGY014	10-50 µl	Green	5/box
MGY015	60-100 µl	Blue	5/box
MGY016	100-200 µl	Red	5/box

MGT - Stands

Stand

DIGIPETTE

1| Made of acrylic, allows to place up to 6 pipettes.

Code	Description
MGT001	Stand for 6 pipettes

Soporte Twister universal 336

SOCOREX SWISS

1| 6 positions. Fluid 360º rotation. Easy reach of the instruments. Concept adapted to most brands of pipettes. Interchangeable disks. Seven translucent colours.

Code	Colour	Pack
MGT013	Zaphire blue	1/box
MGT014	Emerald green	1/box
MGT015	Topaz orange	1/box
MGT016	Quartz grey	1/box
MGT017	Rubi red	1/box
MGT018	Diamond white	1/box
MGT019	Citrine yellow	1/box

MGT - Stands

Soporte 340

SOCOREX SWISS

1| 3 positions. Adapted for micro, macro, and/or multichannel Socorex pipettes and Acura 846 positive displacement pipettes.
2| Each instrument can be easily accessed. Made from polyamide material.

Code	Colour	Pack
MGT012	Light grey	1/box

Charging stand 3 positions, Acura electro

SOCOREX SWISS

1| The pipette or battery holder allows up to 3 pipettes or batteries to be charged and stored simultaneously.
2| Each position is equipped with a red/green charging LED.
3| Power supply not included (REF: MGY046)

Code	Description
MGT021	For pipettes or batteries
MGT022	For batteries

Work station shelf 332

SOCOREX SWISS

1| Two positions.
2| Adapted for micro, macro and multi-channel pipettes.
3| Fits all Calibra and Acura instruments including Acura 865 micro-dispensing pipettes.
4| Supplied with self-adhesive strip.

Code	Description	Pack
MGT004	Work station shelf 332 for 2 Pipettes	1
MGT006	Work station shelf 332 for 2 Pipettes	4

Work station 337

SOCOREX SWISS

1| 7 positions. Holds single channel pipettes of most brands.
2| Space-saving pipette holder.
3| Robust polyamide material.

Code	Colour	Pack
MGT009	Light grey	1/box
MGT007	Pale pink	1/box
MGT010	Glacier blue	1/box
MGT008	Mint green	1/box
MGT011	Vanilla yellow	1/box

Digipette Junior micropipettes stand

DIGIPETTE

1| Acrylic support for 6 Digipette Junior fixed volume micropipettes

Code	Description
MGT025	Junior micropipettes stand

MJ - Tips SOCOREX

SOCOREX SWISS

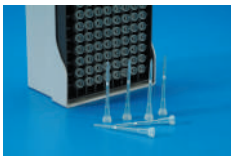
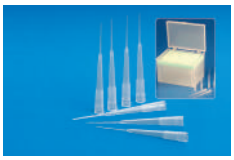
10 - 20 µL Tips	Size	Code	Colour	Description	Sterile	Pack
	31.4	MJB018	Natural	10 µL ultra-microtips, fine pointed, graduated, autoclavable		1000/bag
		MJB023	Natural	10 µL ultra-microtips, fine pointed, graduated, autoclavable		12x96/rack
		MJB037	Natural	10 µL ultra-microtips, fine pointed, graduated, autoclavable	ok	12x96/rack
	38.1	MJB012	Natural	20 µL extended microtips, fine pointed, autoclavable		1000/bag
		MJB016	Natural	20 µL extended microtips, fine pointed, autoclavable		10x96/rack
	71.0	MJB015	Natural	10 µL capillary tips for gel loading, autoclavable		4x204/rack
	38.3	MJB042	Natural	10 µL saver ultra-microtips, fine pointed, autoclavable		1000/bag
10 - 20 µL Filter Tips						
	31.4	MJB027	Natural	10 µL saver ultra-microtips, fine pointed, autoclavable	ok	12x96/rack
	38.1	MJB022	Natural	20 µL extended microtips, with filter, fine pointed	ok	10x96/rack
10 - 20 µL Low Protein Binding Tips						
	31.4	MJB038	Natural	10 µL ultra-microtips, low binding, fine pointed, autoclavable		12x96/rack
		MJB039	Natural	10 µL ultra-microtips, low binding, fine pointed, autoclavable	ok	12x96/rack
	38.1	MJB040	Natural	20 µL extended microtips, low binding, fine pointed, autoclavable		10x96/rack
		MJB041	Natural	20 µL extended microtips, low binding, fine pointed, autoclavable	ok	10x96/rack
20 - 100 µL Filter Tips						
	49.6	MJD005	Natural	20 µL filter tips, bevel point	ok	10x96/rack
		MJG003	Natural	100 µL filter tips, bevel point	ok	10x96/rack
200 µL Tips						
	49.6	MJJ017	Natural	200 µL universal tips, bevel point, graduated, autoclavable		1000/bag
		MJJ018	Natural	200 µL universal tips, bevel point, graduated, autoclavable		10x96/rack
		MJJ035	Natural	200 µL universal tips, bevel point, graduated, autoclavable	ok	10x96/rack
	49.6	MJJ030	Yellow	200 µL regular tips, bevel point, autoclavable		1000/bag
		MJJ031	Yellow	200 µL regular tips, bevel point, autoclavable		10x96/rack
		MJJ037	Yellow	200 µL regular tips, bevel point, autoclavable		10x96/rack
	82.5	MJJ032	Natural	200 µL capillary tips for gel loading, autoclavable		6x96/rack
	49.5	MJJ052	Natural	200 µL saver tips, autoclavable		1000/bag
		MJJ025	Yellow	200 µL saver tips, autoclavable		1000/bag

200 µL Filter Tips	Size	Code	Colour	Description	Sterile	Pack
	51.2	MJJ036	Natural	200 µL universal tips with filter, bevel point	ok	10x96/rack
	83.8	MJJ033	Natural	200 µL extended tips with filter, fine pointed	ok	6x96/rack
200 µL Low Protein Binding Tips						
	49.6	MJJ038	Natural	200 µL universal tips, low binding, graduated, autoclavable		10x96/rack
		MJJ039	Natural	200 µL universal tips, low binding, graduated, autoclavable	ok	10x96/rack
350 µL Tips						
	58.8	MJL011	Natural	350 µL regular tips, autoclavable		1000/bag
		MJL010	Natural	350 µL regular tips, autoclavabl		10x96/rack
300 µL Filter Tips						
	58.8	MJL008	Natural	300 µL regular tips with filter		10x96/rack
1000 µL Tips						
	88.9	MJN017	Natural	1000 µL universal tips, fine pointed, autoclavable		1000/bag
		MJN029	Natural	1000 µL universal tips, fine pointed, autoclavable		6x96/rack
		MJN034	Natural	1000 µL universal tips, fine pointed, autoclavable	ok	6x96/rack
	75.9	MJN018	Blue	1000 µL regular tips, bevel point, autoclavable		1000/bag
		MJN031	Blue	1000 µL regular tips, bevel point, autoclavable		6x96/rack
		MJN037	Blue	1000 µL regular tips, bevel point, autoclavable	ok	6x96/rack
	75.9	MJN022	Natural	1000 µL regular tips, bevel point, graduated, autoclavable		1000/bag
		MJN030	Natural	1000 µL regular tips, bevel point, graduated, autoclavable		6x96/rack
	70.9	MJN046	Natural	1000 µL saver tips, autoclavable		1000/bag
		MJN045	Blue	1000 µL saver tips, autoclavable		1000/bag
1000 µL Filter Tips						
	88.9	MJN028	Natural	1000 µL universal tips, with filter, fine pointed, autoclavable		6x96/rack
1000 µL Low Protein Binding Tips						
	88.9	MJN035	Natural	1000 µL universal tips, low binding, fine pointed, autoclavable		6x96/rack
		MJN036	Natural	1000 µL universal tips, low binding, fine pointed, autoclavable	ok	6x96/rack
2, 5, 10 mL Macrotips						
	115.5	MJQ010	Natural	2 mL macrotips, autoclavable		2x250/bag
		MJQ023	Natural	2 mL macrotips, autoclavable		30x250/bag
	123.2	MJQ011	Natural	5 mL macrotips, graduated, autoclavable		2x250/bag
		MJQ024	Natural	5 mL macrotips, graduated, autoclavable		25x250/bag
		MJQ014	Natural	5 mL macrotips, graduated, autoclavable		2x50/bag
	150.0	MJQ012	Natural	10 mL macrotips, autoclavable		3x100/bag
		MJQ025	Natural	10 mL macrotips, autoclavable		40x100/bag

MJ - Tips DIGIPETTE

10 µL Tips	Code	Colour	Description	Sterile	Pack
	MJB011	White	Micropipette tips, white, 10 µL, b/1000		1000/bag
	MJB032	Natural	Pipette tips in bag, 10 µl, High Quality		96/rack
	MJB034	Natural	Pipette tips in rack, 10 µl, High Quality	OK	96/rack
	MJB035	Natural	Pipette tips in rack, 10 µl, low retention, High Quality	ok	96/rack
	MJB036	Natural	Filter pipette tips in rack, 10 µl, High Quality, sterile,	ok	96/rack
20 µL Tips					
	MJD011	Natural	Filter pipette tips, 20 µl, High Quality, steriler ack	ok	96/rack
	MJD012	Natural	Low retention filter pipette tips, 20µl, High Quality, sterile rack	ok	96/rack
100 µL Tips					
	MJG005	Natural	Filter pipette tips in bag, 100 µl, High Quality		1000/bag
	MJG006	Natural	Filter pipette tips in rack, 100 µl, High Quality,	ok	96/rack
200 µL Tips					
	MJJ016	Yellow	Micropipette tips, 2-200 µL		1000/bag
	MJJ040	Natural	Pipette tips in bag, 200 µl, High Quality,		1000/bag
	MJJ042	Natural	Pipette tips in rack, 200 µl, High Quality	ok	96/rack
	MJJ043	Natural	Pipette tips in rack, 200 µl, low retention, High Quality	ok	96/rack
	MJJ044	Natural	Filter pipette tips in rack, 200 µl, High Quality	ok	96/rack
	MJJ046	Natural	Pipette tip, long 200 µl, High Quality		1000/bag
	MJJ047	Natural	Filter pipette tip, long 200 µl, High Quality		1000/bag
	MJJ048	Natural	Pipette tip in rack, long 200 µl, High Quality		96/rack
	MJJ049	Natural	Filter pipette tip in rack, long 200 µl, High Quality	ok	96/rack
	MJJ050	Natural	Pipette tip in rack, long 200 µl, low retention High Quality	ok	96/rack
	MJJ051	Natural	Filter pipette tip, long 200 µl, low retentionHigh Quality	ok	96/rack
1000 µL Tips					
	MJN015	Blue	Micropipette tips, 100-1000 µL		500/bag
	MJN038	Natural	Pipette tips in bag, 1000 µl, High Quality		1000/bag
	MJN040	Natural	Pipette tips in rack, 1000 µl, High Quality	ok	96/rack
	MJN041	Natural	Pipette tips in rack, 1000 µl, low retention, High Quality	ok	96/rack
	MJN042	Natural	Filter pipette tips in rack, 1000 µl, High Quality	ok	96/rack
5-10 mL Tips					
	MJQ020	Natural	Transparent tip macro 10 mL		100/bag
	MJQ021	Natural	Tip macro 5 mL		100/bag
	MJQ022	Natural	Tip for 5 mL macropipette		100/bag

MJ - Tips KARTELL

10 µL Tips	Code	Colour	Description	Sterile	Pack
Code - MJB001 MJB006 MJB010	MJB001	Natural	Gilson tips 0.5-10 µl, micro type		1000/bag
	MJB002	Natural	Crystal tips 0,5:10 µl, type Eppendorf		1000/bag
	MJB003	Natural	Eppendorf crystal tips in rack		96/rack
	MJB004	Natural	Sterile filter tips rack Eppendorf 0,5:10 µl (96t)	ok	96/rack
 Réf. - MJB004	MJB005	Natural	Sterile filter tips Gilson type, 0,5:10 µl	ok	96/rack
	MJB006	Natural	Tips in rack Gilson 0,1-10 µl		96/rack
	MJB007	Natural	Eppendorf tips 0.5-10 µl		96/rack
	MJB009	Natural	Eppendorf cristal type 1-10 µl		Refill (p/5)
	MJB010	Natural	Gilson type 1-10 µl		Refill (p/5)
20-30 µL Tips					
Code - MJD001 MJD004 MJD008	MJD001	Natural	Eppendorf type 2-20 µl		1000/bag
	MJD002	Natural	Filter tips Gilson type, 1-30 µl	Ok	96/rack
	MJD003	Natural	Sterile filter tips rack Eppend. 2-20 µl		96/rack
	MJD004	Natural	Eppendorf type, 2-20 µl		96/rack
	MJD008	Natural	Eppendorf type, 2-20 µl		Refill (p/5)
1-100 µL Tips					
	MJG001	Natural	Filter tips Eppendorf type, 5-100 µl	ok	96/rack
	MJG002	Natural	Filter tips Gilson type graduated 2-100 µl	ok	96/rack
5-200 µL Tips					
Code - MJJ004 MJJ011 MJJ013 MJJ007	MJJ001	Natural	Gilson bevelled tips graduated, 2-200 µl		1000/bag
	MJJ002	Natural	Fine tips for long test tubes 200 µl		1000/bag
	MJJ003	Yellow	Gilson type tips 5-200 µl		1000/bag
	MJJ004	Yellow	Universal pipette tips 2-200 ul		1000/bag
	MJJ006	Natural	MLA type tips 5-200 µl		1000/bag
Code - MJJ006	MJJ007	Yellow	Tips graduated, 2-200 µl		1000/bag
	MJJ008	Yellow	Gilson type tips in rack 2-200 µL		96/rack
	MJJ009	Yellow	Universal type tips in rack 2-200 µL		96/rack
	MJJ010	Natural	Filter tips, universal 2-200 µl	ok	96/rack
 Code - MJJ002 MJJ015	MJJ011	Natural	Universal tips 5-200 ul		96/rack
	MJJ012	Natural	Tips Gilson type graduated 2-200 µl		96/rack
	MJJ013	Yellow	Universal 5-200 µl		Refill (p/5)
	MJJ014	Natural	Gilson type graduated 2-200 µl		Refill (p/5)
	MJJ015	Natural	Sterile tips in rack for gel loading 200 µl	ok	96/rack
5-200 µL Tips					
Code - MJL002 MJL004 MJL006	MJL001	Natural	Tips Eppendorf type graduated 20-300 µl		1000/bag
	MJL002	Natural	Neutral tips 2-300 µl		1000/bag
	MJL003	Natural	Sterile filter tips Eppenforf type 20-300 µl		96/rack
	MJL004	Natural	Tips in rack Biohit 2-300 µl		96/rack
	MJL005	Natural	Tips in rack Eppendorf type graduated, 20-300 µl		96/rack
	MJL006	Natural	Biohit original 2-300 µl		Refill (p/5)
	MJL007	Natural	Eppendorf type graduated 20-300		Refill (p/5)

MJ - Tips KARTELL

10 µL Tips	Code	Colour	Description	Sterile	Pack
Code - MJJ004 MJJ011 MJJ013 MJJ007	MJN001	Blue	Gilson original tips 50-1000 µl		1000/bag
	MJN002	Blue	Universal type tips 200-1000 µl		1000/bag
	MJN003	Blue	Universal type tips 100-1000 ul		1000/bag
	MJN004	Natural	Oxford type tips 250-1000 µl		1000/bag
	MJN005	Natural	Beckman type tips 2:1000 µl		1000/bag
Code. - MJJ006	MJN006	Natural	Oxford type tips 250:1000 µl		1000/bag
	MJN007	Natural	MLA type tips 200:1000 µl		1000/bag
	MJN008	Blue	Universal tips 100-1000 µl		96/rack
	MJN009	Natural	Filter tips Eppendorf type 50-1000 µl	Ok	96/rack
	MJN010	Natural	Filter tips Gilson type 50-1000 µl	Ok	96/rack
Code - MJJ006	MJN011	Blue	Universales tips 100-1000 µl		96/rack
	MJN012	Blue	Tips Gilson type 50-1000 µl		96/rack
	MJN013	Blue	Universal 100-1000 µl		Refill (p/5)
	MJN014	Blue	Gilson original 50-1000 uL		Refill (p/5)
1-10 mL Tips					
	MJQ001	Natural	Finnpipette original tips 1-5 mL		250/bag
	MJQ002	Natural	Original Gilson pipette tips 2-10 mL		100/bag
Code. - MJQ003 MJQ006	MJQ003	Natural	SL tips 1-5 mL		250/bag
	MJQ004	Natural	Gilson, Socorex, Nichiryo type tips 1-5 mL		250/bag
	MJQ005	Blue	Gilson, Socorex, Nichiryo type tips 1-5 mL		50/rack
	MJQ006	Natural	Eppendorf, Biohit type tips 1-5 mL		50/rack
	MJQ008	Natural	Gilson type tips 2-10 mL		25/rack

MJQ - 2 - 5 -10000 mL

Straw tips PP sterile

SOCOREX SWISS

1| For Acura 810 dilution pipettes. Supplied sterile in resealable bags.

Code	Material	Vol.	LxØ mm	Pack
MJQ019	PP, sterilized	1.1 mL	190 x 4	40x25 / box

Pasteur pipette

SOCOREX SWISS

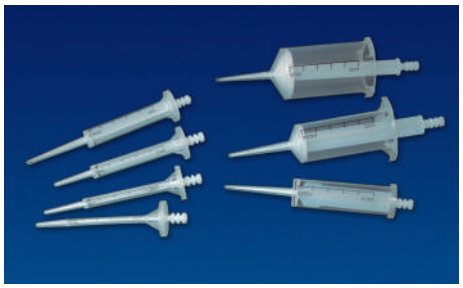
1| For 2 and 5 mL Acura manual/electro and Calibra macropipettes, with their respective adapters

Code	Material	Vol.	LxØ mm	Pack
MJQ015	Glass	2 mL	150 x 7	250/ box
MJQ017	Glass	2 mL	230 x 7	250/ box
MJQ016	Glass with filter	2 mL	150 x 7	250/ box
MJQ018	Glass with filter	2 mL	230 x 7	250/ box

MJV - Syringes f/repeater pipettes

Dispenser tip

DIGIPETTE



1| Non-sterile, single use. Made of high quality plastic.

Code	Volume	Gamme	Accuracy	Lot
MJV017	5 mL	100-500 µL	±0.6 %	**10**
MJV020	5 mL	100-500 µL	±0.6 %	**10**

Syringe Ecostep™ for pipettes Stepper™ 411

SOCOREX SWISS

1| Colour-coding: The Ecostep syringe and selector button are Colour-coded to eliminate any setting errors.
2| Available in sterile Shapet

Code	Volume	Capacity	Sterilized	Packaging
MJV025	10 - 100 µl	0.75 mL	No	**100**
MJV028	10 - 100 µl	0.75 mL	Yes	**50**
MJV026	50 - 500 µl	3.75 mL	No	**100**
MJV027	50 - 500 µl	3.75 mL	Yes	**50**
MJV029	500 - 5000 µl	37.5 mL	No	**100**
MJV030	500 - 5000 µl	37.5 mL	Yes	**50**

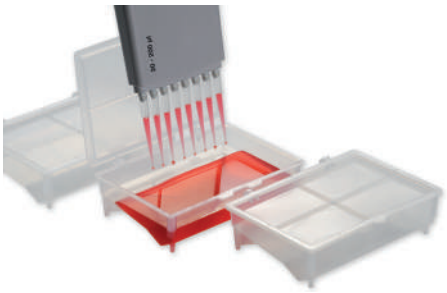
Values obtained with double-distilled water at a constant temperature (± 0.5°C) between 20 and 25°C according to ISO 8655.

Code	Description	Colour
MJV031	Replacement adapter Ecostep syringe, c/5	Red

MJX - Containers for reagents

Reservoir PP V-shaped

SOCOREX SWISS



1| Specially adapted for single and multichannel pipetting.
2| The V-shaped bottom allows the aspiration of even the last drops of reagent.
3| Made of polypropylene, autoclavable, reusable.

Code	Pack	Volume	Cover
MJX001	20 units	70 mL	No
MJX002	20 units	125 mL	With hinge

8 and 12 channels

SOCOREX SWISS

1| 8 and 12 channel containers, 48 mL capacity
2| The ideal solution for numerous applications.
3| Made of polystyrene, available sterilized, individually wrapped

Code	Pack	Channels	Sterilized
MJX003	30 units	8 channels	No
MJX004	30 units	8 channels	Yes
MJX005	30 units	12 channels	No
MJX006	30 units	12 channels	Yes

MJX - Containers for reagents

Disposable reservoir for reagents

ENDO plasticware

NEW

1| Manufactured in PP, non-sterile. Suitable for use with multichannel pipettors.

Code	Pack	Sterile	Volume
MJX007	20 units	No	50 mL
MJX008	200 units	Yes*	50 mL

** sterilized by OE, individually bagged.*

MMB - Classic

Luer Nozzle Syringes

ENDO glassware

1| Made of neutral glass.
2| Steam sterilizable by autoclave. It is recommended to do so at 134ºC for 10 minutes, separating the piston from the cylinder.
3| Plunger nozzle marked with amber ring.
4| Not suitable for medical use.

Code	Volume
Metal Luer Lock Nozzle	
MMB002	1 mL
MMB003	2 mL
MMB004	3 mL
MMB005	5 mL
MMB006	10 mL
MMB007	20 mL
MMB008	30 mL
MMB009	50 mL
MMB010	100 mL
Metal Luer nozzle	
MMB011	1 mL
MMB032	2 mL
MMB033	3 mL
MMB034	5 mL
MMB013	10 mL
MMB012	20 mL
MMB014	30 mL
MMB035	50 mL
Glass Luer Nozzle	
MMB043	1 mL
MMB044	2 mL
MMB045	3 mL
MMB046	5 mL
MMB049	30 mL
MMB050	50 mL

MMB - Classic

Syringe Dosys glass 155

SOCOREX SWISS

1| Precision finish of the piston and cylinder. Excellent fit and liquid tightness.
2| Highly visible graduations permanently. Made of borosilicate glass.

Code	Volume	Division	Packaging
Glass Luer tip			
MMB015	0.1-1 mL	0.05 mL	3 / box
MMB016	0.2-5 mL	0.2 mL	3 / box
MMB017	1-10 mL	0.2 mL	3 / box
MMB018	10-100 mL	10 mL	1 / box
MMB019	1-20 mL	1 mL	2 / box
MMB020	1-30 mL	2 mL	2 / box
Metal Luer Lock Tip			
MMB021	0.1-1 mL	0.05 mL	3 / box
MMB023	0.2-5 mL	0.2 mL	3 / box
MMB024	1-10 mL	0.2 mL	3 / box
MMB025	10-100 mL	10 mL	1 / box
MMB027	1-20 mL	1 mL	2 / box
MMB030	1-30 mL	2 mL	2 / box
MMB022	0.5-2 mL	0.1 mL	3 / box
MMB026	10-150 mL	10 mL	1 / box
MMB028	10-200 mL	10 mL	1 / box
MMB029	10-250 mL	10 mL	1 / box
MMB031	1-50 mL	2 mL	1 / box

AUTO +121°

MMD - Self-refilling

Syringe Dosys basic 162/172

SOCOREX SWISS

1| Automatic filling through needle or cannula. Supplied without a valve system. Luer Lock nozzle. The box includes the syringe, a protective PVC cover and instructions for use.

Code	Volume	Division
Dosys 162 (two-ring handle)		
MMD001	0.1-1 mL	0.05 mL
MMD002	0.3-2 mL	0.1 mL
MMD003	0.5-5 mL	0.5 mL
Dosys 172 (pistol grip handle)		
MMD014	0.1-1 mL	0.05 mL
MMD015	0.3-2 mL	0.1 mL
MMD016	0.5-5 mL	0.5 mL
MMD017	1-10 mL	1.0 mL

Syringe Dosys premium 164/174

SOCOREX SWISS

1| Automatic self-filling. Removable valve system. Greater resistance to corrosion. Luer Lock nozzle.
2| The box includes the syringe, a 1 metre silicone feeding tube, a plummet, a PVC protective sleeve, suction, ventilation and dosing cannulas, a set of spare parts for the valve and instructions for use.

Code	Volume	Division
Dosys 164 (two-ring handle)		
MMD010	0.1 - 1 mL	0.05 mL
MMD011	0.3 - 2 mL	0.1 mL
MMD012	0.5 - 5 mL	0.5 mL
MMD013	1 - 10 mL	1.0 mL
Dosys 174 (pistol grip handle)		
MMD025	0.1 - 1 mL	0.05 mL
MMD026	0.3 - 2 mL	0.1 mL
MMD027	0.5 - 5 mL	0.5 mL
MMD028	1 - 10 mL	1.0 mL

MMD - Self-refilling

Syringe Dosys classic 163/173

SOCOREX SWISS

1| Automatic self-filling. Integrated valve system. Luer Lock nozzle.
The box includes the syringe, a 1 metre silicone feeding tube, a plummet, a PVC protective cover, suction and ventilation cannulas, a set of spare parts for the valve and instructions for use.

Code	Volume	Division
Dosys 163 (two-ring handle)		
MMD006	0.025-0.3 mL	0.025 mL
MMD007	0.1-0.5 mL	0.1 mL
MMD004	0.1-1 mL	0.05 mL
MMD005	0.3-2 mL	0.1 mL
MMD008	0.5-5 mL	0.5 mL
MMD009	1-10 mL	1 mL
Dosys 173 (pistol grip handle)		
MMD021	0.025-0.3 mL	0.025 mL
MMD018	0.1-0.5 mL	0.1 mL
MMD019	0.1-1 mL	0.05 mL
MMD020	0.3-2 mL	0.1 mL
MMD022	0.5-5 mL	0.5 mL
MMD023	1-10 mL	1 mL
MMD024	5-20 mL	1 mL

Accessories Dosys

Grounded glass barrel

Code	Description
MMJ004	Grounded glass barrel, syringe 5mL, c/6
MMJ005	Glass barrel, syringes 10 mL, c/6

Supports and cannula

Code	Description
MMJ006	Work station for syringe Dosys 5 mL
MMJ007	Luer Lock Cannula, dim. 1,2x50 mm
MMJ008	Luer Lock Cannula, dim. 2,2x100 mm
MMJ009	Luer Lock Cannula, dim. 2,2x150 mm

Spare kit for valve

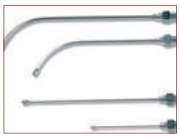
Code	Description
MMJ001	For syringe of 0.3 mL
MMJ002	For syringe of 10 mL
MMJ011	For syringe of 5 mL

Enhanced plunger tighness set

Code	Description
MMJ003	For 5 mL syringes

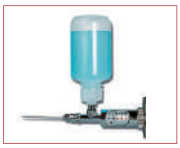
Lubricant

Code	Description
MMJ015	Lubricant ABF for metal plunger, spray 70 mL



Drencher

Code	Description
MMJ010	Straight stainless steel nozzle for animal feeding 3.0 x 203 mm, p/2



Bottle

Code	Description
MMJ012	PP bottle 60 mL
MMJ013	PP bottle 125 mL
MMJ014	PP bottle 250 mL

Stainless Steel Luer Lock needle (for Dosys)

Code	(Ø x L) mm	Pack
MMG001	0.7 x 13 mm	12 / box
MMG003	0.7 x 10 mm	12 / box
MMG004	0.7 x 4 mm	12 / box
MMG005	0.7 x 6 mm	12 / box
MMG006	0.8 x 4 mm	12 / box
MMG007	0.8 x 6 mm	12 / box
MMG008	0.8 x 10 mm	12 / box
MMG009	0.8 x 20 mm	12 / box
MMG010	0.8 x 40 mm	12 / box
MMG011	0.8 x 25 mm	12 / box
MMG012	0.9 x 10 mm	12 / box
MMG013	0.9 x 13 mm	12 / box
MMG014	1.0 x 25 mm	12 / box
MMG015	1.0 x 30 mm	12 / box
MMG016	1.0 x 10 mm	12 / box

MPD - Peristaltic pumps, accessories

BW Series Peristaltic Pump

1| Compact mini pump, widely used in laboratories to pump small volumes safely and with high precision, thanks to its stepper motor.
2| Painted metal housing. "Full Speed" function for fast filling or emptying of the tube Flow calibration function.External control via foot switch (start/stop); RS485 interface.

Code	MPD001
Pump head	3 roller
Max. speed	100 rpm
Speed resolution	0,1 rpm
Max. flow rate	26,45 ml/min
Motor type	DC stepper motor
Ambient working temperature	0 - 40ºC
Power supply	100-240VAC, 50/60Hz (adapter AC/DC)
Power consumption	< 22W
Dimensions (LxWxH)	150x128x110 mm
Net weight	1 kg

BT Series Peristaltic Pump

1| Compatible with various models of pump heads (not included).
2| Easy to operate; control panel with membrane keypad. 4-digit LED display; speed (rpm) and flow rate (ml/min) indication.
3| "Full Speed" function for fast filling or emptying of the tube. Flow calibration function. External control via foot switch (start/stop); RS485 interface.

Code	MPD002
Rango Max. speed	100 rpm
Speed resolution	0,1 rpm
Max flow rate	480 ml/min
Flow rate error	< 0,5%
Suction angle	10º-720º
Suction speed	10-100 rpm
Power supply	220VAC, 50/60Hz
Power consumption	< 22W
Protection class	IP31
Dimensions (LxWxH)	290x135x225 mm
Net weight	4,9 kg

CT Series Peristaltic Pump

1| Compatible with various models of pump heads (not included).
2| Easy to operate; control panel with membrane keypad. 4-digit LED display; speed (rpm) and flow rate (ml/min) indication.
3| "Full Speed" function for fast filling or emptying of the tube. Flow calibration function. External control via foot switch (start/stop); RS485 interface.

Code	MPD003
Max. speed	600 rpm
Speed resolution	0,1 rpm
Max flow rate	2280 ml/min
Suction angle	10º-720º
Suction speed	10-300 rpm
Motor type	Stepper motor
Power supply	220VAC, 50/60Hz
Power	< 50W
Protection class	IP31
Dimensions (LxWxH)	290x200x255 mm
Net weight	5,25 kg

Model	**Code**	**Max. speed**	**Tubes type** *(inner diameter × wall thickness, mm)*								
			#13 0,8×1,6	**#14** 1,6×1,6	**#19** 2,4×1,6	**#16** 3,1×1,6	**#25** 4,8×1,6	**#15** 4,8×2,4	**#17** 6,4×1,6	**#24** 6,4×2,4	**#18** 7,9×1,6
YZ1515x	MPD004	600 rpm	42 mL/min	162 mL/min	306 mL/min	492 mL/min	1020 mL/min	-	1740 mL/min	-	2280 mL/min
TX315	MPD006	400 rpm	28 mL/min	106 mL/min	227 mL/min	399 mL/min	830 mL/min	-	1400 mL/min	-	1930 mL/min
YZ2515x	MPD005	600 rpm	-	-	-	-	-	1020 mL/min	-	1740 mL/min	-
TX325	MPD007	400 rpm	-	-	-	-	-	760 mL/min	-	1230 mL/min	-

**Heads not included with the equipment*

MPG - For liquid transfer

Peristaltic Pump BW Series

1| Small and compact to fit in the laminar flow cabinet, on the benchtop or even beneath the bench.
2| Easy to switch between manual aspiration and continuous aspiration mode, reducing RSI (Repetitive Strain Injury) and improving efficiency.
3| Collection bottle outlet with hydrophobic filter prevents aerosol and liquid contamination.
4| Brushless motor offers low noise and long life.
5| Different adapters are included to fit a multitude of laboratory supplies.
6| The parts in contact with liquid can be autoclaved. Adjustable vacuum level with indicator light is designed for various applications.

Code	MPG002
Vacuum range	0-500 mbar
Max. flow rate	15 L/min (air)
Max. aspiration speed	17 mL/s (liquid)
Bottle volume	2 L
Motor type	Brushless motor
Power supply	100-240 VAC, 50/60 Hz (AC/DC adapter)
Dimensions (LxWxH)	260x210x360 mm
Weight	2.1 kg

Portable Suction system for biological liquids

1| The portable biological liquid aspirator is suitable for multiple laboratory uses, especially in safety cabinets, thanks to its compact design and the silent motor for the built-in vacuum pump powered by a rechargeable battery.
2| Features 100% fast charging, allowing for 5 hours of continuous operation.
3| Dual function: liquid aspiration or filtration. Includes a 1L autoclavable bottle.

Code	MPG003
Power Supply	DC12 V, 1.0 A
Batteries	Rechargeable 2000 mA/h
Dimensions (LxWxH)	127x144x244 mm
Weight	0,5 kg

N | WATER ANALYSIS

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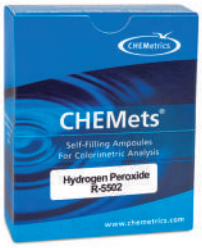
NBB - Hydrogen peroxide

Code-NBB001



Code-NBB014

CHEMetrics offers a variety of visual kits to measure the concentration of hydrogen peroxide in water. The CHEMets® K-5502 test kit uses DPD chemistry to measure hydrogen peroxide from 0 to 0.5 ppm. Several visual kits are available that use Iron thiocyanate chemistry to determine hydrogen peroxide in low and high concentration ranges. We also offer a Titrets® test (Cat. No. K-5530) which uses a serum sulphate titrant with a ferroin indicator. Depending on the procedure used, this kit can determine H2O2 concentrations ranging from 0.01% to 20%.

For instrumental testing, our Vacu-vials® (Cat. No. K-5543) use Iron thiocyanate chemistry. Instrumental kits require the use of CHEMetrics photometers or direct reading spectrophotometers capable of accepting a 13mm diameter round cell.

CHEMetrics also offers a 0.5 ppm hydrogen peroxide analytical standard (Cat. No. A-5505) which can be used to verify the reliability of the kit reagent and the performance of the instrument.

Visual kits

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NBB001 (K-5502)	NBB014 (R-5502)	0-0.5 ppm	0.025 ppm	DPD
NBB002 (K-5510)	NBB009 (R-5510)	0-0.8 & 1-10 ppm	0.05 ppm	Iron thiocyanate
NBB007 (K-5530)	-	0.1-1.0% (up to 20% with dilution)	0.10%	Ceric sulphate titrant with ferroin indicator
NBB030 (K-5520D)	NBB009 (R-5510)	5-50 ppm	5 ppm	Iron thiocyanate
NBB031 (K-5520A)	NBB009 (R-5510)	25-250 ppm	25 ppm	Iron thiocyanate
NBB032 (K-5520A)	NBB009+NGB040 (R-5510)	25-250 ppm	25 ppm	Iron thiocyanate
NBB033 (K-5520C)	NBB009+NGB040 (R-5510)	1000-10000 ppm	1000 ppm	Iron thiocyanate

Instrumental kits

Code AXL (Chemetrics)	Range	Method
NBB008 (K-5543)	0-6.00 ppm	Iron thiocyanate
NBB029* (I-2016)	0-6.00 ppm	Iron thiocyanate

* Kit SAM

Code-NBB029

NBC - Ammonia

Code-NBC001

Code-NBC012

CHEMetrics offers two different methods for testing ammonia, direct nesslerisation and hydroxybenzyl alcohol (HBA). Visual and instrumental test kits covering low and high ranges are available. Results from the visual test kits are analysed using colour comparators, while the instrumental kits are based on CHEMetrics direct-reading photometers or spectrophotometers capable of accepting a 13 mm diameter round cell.

Visual kits

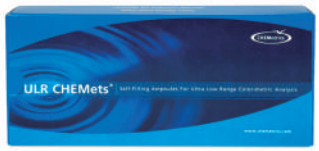
Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NBC001 (K-1420)	NBC012 (R-1402)	0-4 & 0-80 ppm	0.125 ppm	Hydroxybenzyl alcohol (HBA)
NBC004 (K-1510)	NBC015 (R-1501)	0-1 & 1-10 ppm	0.05 ppm	Direct Neslerisation
NBC037 (K-1430D)	NBC012+NBG040 (R-1402+A-0171)	0-2000 & 0-10000 ppm	125 ppm	Hydroxybenzyl alcohol (HBA)
NBC038 (K-1520D)	NBC015 (R-1501)	5-50 ppm	5 ppm	Direct Neslerisation
NBC039 (K-1520A)	NBC015 (R-1501)	25-250 ppm	25 ppm	Direct Neslerisation
NBC040 (K-1520B)	NBC015+NBG040 (R-1501)+A-0171	125-1250 ppm	125 ppm	Direct Neslerisation
NBC041 (K-1520C)	NBC015+NBG040 (R-1501)+A-0171	1000-10000 ppm	1000 ppm	Direct Neslerisation

Instrumental kits

Code AXL (Chemetrics)	Range	Method
NBC009 (K-1413)	0-6.00 ppm (HBA)	Hydroxybenzyl alcohol
NBC036 (K-1513)	0-10.00 ppm & 0-150 ppm	Direct Neslerisation (extended shelf life)

NBD - Chlorine

Code-NBD001



Code-NBD023

CHEMetrics offers a full line of chlorine in water test kits that utilize our self-filling ampoule technology that reduces the user's exposure to chemicals.

Our CHEMets® visual chlorination test kits use a color comparator for analysis. Kits employing the DPD chemistry are offered for low and high range determination of free & total chlorine and high range determination of hypochlorite (free chlorine) only. Our ULR CHEMets® employing the DDPD chemistry are available for ultra low range determination of free & total chlorine.

Our Vacu-vials® instrumental test kits employ the DPD chemistry and are accepted by the USEPA for wastewater and drinking water analysis. These kits require the use of a CHEMetrics direct-readout photometer or spectrophotometer capable of accepting a 13-mm diameter round cell.

Visual kits

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NBD001 (K-2511)	NBD023 (R-2511)	0-0.20 ppm	0.04 ppm	DDPD (free and total)
NBD002 (K-2504)	NBD019 (R-2500)	0-1 & 0-5 ppm	0.05 ppm	DPD (free and total)
NBD007 (K-5808)	NBD019+NGB040 (R-2500)+A-0171	0-1.55% as NaOCl	0.3%	DPD (hypochlorite)
NBD008 (K-5816)	NBD022 (R-5808)	0-12.5% as NaOCl	2.5%	DPD (hypochlorite)
NBD050 (K-2520D)	NBD019 (R-2500)	0-25 ppm	2.5 ppm	DPD (free and total)
NBD051 (K-2520A)	NBD019 (R-2500)	0-125 ppm	5 ppm	DPD (free and total)
NBD052 (K-2520B)	NBD019+NGB040 (R-2500)+A-0171	0-500 ppm	10 ppm	DPD (free and total)
NBD053 (K-2520C)	NBD019+NGB040 (R-2500)+A-0171	0-2000 ppm	40 ppm	DPD (free and total)

Instrumental kits

Code AXL (Chemetrics)	Range	Method
NBD010 (K-2523)	0-5.00 ppm	DPD (free)*
NBD009 (K-2513)	0-5.00 ppm	DPD (free and total)*

** Accepted for drinking water and wastewater using CHEMetrics DPD Vacu-vials instrumentation products.*

Kits SAM

Code AXL (Chemetrics)	Range	Method
NBD048 (I-2001)	0-5.00 ppm	DPD (free and total)

Code-NBD048

NBF - Ozone

Instrumental kits

Code AXL (Chemetrics)	Range	Method
NBF003 (K-7433)	0-0.75 ppm	Indigo
NBF009 (I-2022)	0-0.75 ppm	Indigo
NBF001 (K-7423)	0-5.00 ppm	DPD
NBF008 (I-2019)	0-5.00 ppm	DPD

Code-NBF004

Code-NBF002

NEW

Visual kits

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NBF002 (K-7404)	NBF004 (R-7404)	0-0.60 & 0.6-3.0 ppm	0.025 ppm	DPD

NBG - Nitrate

Code-NBG002

Instrumental kits

Code AXL (Chemetrics)	Range	Method
NBG008 (K-6913)	0-1.50 ppm as N	Zinc Reduction
NBG007 (K-6903)	0-1.50 ppm as N	Cadmium Reduction
NBG009 (K-6923)	0-7.50 ppm as N	Cadmium Reduction
NBG010 (K-6933)	0-50.0 ppm as NO^3	Cadmium Reduction

Code-NBG023

Visual kits

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NBG002 (K-6905)	NBG023 (R-6905)	0-3.4 ppm as N	0.3 ppm	Zinc Reduction
NBG001 (K-6904)	NBG025+NGB041 (R-6902)+A-6900	0-4.5 ppm as N	0.4 ppm	Cadmium Reduction
NBG006 (K-6909D)	NBG022 (R-6904)+A6900	0-45 ppm as N	4 ppm	Cadmium Reduction
NBG003 (K-6909A)	NBG022 (R-6904)	0-225 ppm as N	20 ppm	Cadmium Reduction

NBG - Azote

Code-NBG018

Instrumental kits, azote

Code AXL (Chemetrics)	Range	Method
NBG046 (K-7013)	0-0,750 ppm as N	Azo dye formation (NED)
NBG018 (K-7003)	0-1,00 ppm as N	Azo dye formation

Visual kits, azote

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NBG011 (K-7004)	NBG025 (R-6905)	0-2,5 ppm as N	0.2 ppm	Azo dye formation
NBG047 (K-6904)	NBG025+NGB040 (R-7002)+A-0171	0-250 ppm	20 ppm	Azo dye formation
NBG048 (K-7020C)	NBG025+NGB040 (R-7002)+A-0171	0-2000 ppm	1600 ppm	Azo dye formation
NBG012 (K-7025)	NBG025+NGB040 (R-7002)+A-0171	250-2500 ppm as $NaNO_2$	250 ppm	Ceric sulfate titrant with ferroin indicator
NBG013 (K-7050)	NBG025+NGB040 (R-7002)+A-0171	500-5000 ppm as $NaNO_2$	500 ppm	Ceric sulfate titrant with ferroin indicator

NBH - Dissolved oxygen

Code-NBH006

Instrumental kits

Code AXL (Chemetrics)	Range	Method
NBH008 (K-7553)	0-1.000 ppm	Rhodazine D
NBH007 (K-7513)	0-15.0 ppm	Indigo Carmine
NBH020* (I-2002)	0-15.0 ppm	Indigo Carmine

** Kit SAM*

Visual kits

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NBH006 (K-7511)	NBH013 (R-7511)	0-20 ppb	2 ppb	Rhodazine D
NBH001 (K-7540)	NBH009 (R-7540)	0-40 ppb	2.5 ppb	Rhodazine D
NBH005 (K-7599)	NBH009 (R-7540)	0-100 ppb	5 ppb	Rhodazine D
NBH004 (K-7518)	NBH012 (R-7518)	5-180 ppb	5 ppb	Rhodazine D
NBH002 (K-7501)	NBH010 (R-7501)	0-1 ppm	0.025 ppm	Rhodazine D
NBH003 (K-7512)	NBH011 (R-7512)	1-12 ppm	1 ppm	Indigo Carmine

NBJ - Iron

Instrumental kits

Code AXL (Chemetrics)	Range	Method
NBJ011 (K-6203)	0-5.00 ppm	DPD (free and total)*
NBJ009 (K-6003)	0-5.00 ppm	DPD (free and total)

Code-NBJ002

Visual kits

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NBJ002 (K-6210)	NBJ014 (R-6201)	0-1 & 1-10 ppm	0.05 ppm	Phenanthroline (total and ferrous)
NBJ004 (K-6010)	NBJ012 (R-6001)	0-1 & 1-10 ppm	0.05 ppm	Phenanthroline (total and soluble)
NBJ001 (K-6002)	NBJ013 (R-6002)	0-100 & 100-1000 mg/L	5 mg/L	Iron thiocyanate (iron in brine)
NBJ035 (K-6020D)	NBJ012 (R-6001)	10-100 ppm	10 ppm	Phenanthroline (total and soluble)
NBJ036 (K-6020A)	NBJ012 (R-6001)	50-500 ppm	50 ppm	Phenanthroline (total and soluble)
NBJ037 (K-6020B)	NBJ012+NGB040 (R-6001)+A-0171	250-2500 ppm	50 ppm	Phenanthroline (total and soluble)
NBJ038 (K-6020D)	NBJ014 (R-6201)	10-100 ppm	50 ppm	Phenanthroline (total and ferrous)

NBK - Phosphate

NEW

Instrumental kits

Code AXL (Chemetrics)	Range	Method
NBK008 (K-8513)	V-2000: 0-8.00 ppm Spec: 0-5.00 ppm	Stannous chloride
NBK009 (K-8503)	0-80.0 ppm	Vanadomolybdophosphoric Acid

Code-NBK001

Visual kits

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NBK001 (K-8510)	NBK010 (R-8510)	0-1 & 1-10 ppm	0.05 ppm	Stannous chloride
NBK002 (K-8530)	NBK011 (R-8515)	2-30 ppm	2 ppm	Vanadomolybdophosphoric Acid
NBK003 (K-8515)	NBK011 (R-8515)	0-120 ppm	5 ppm	Vanadomolybdophosphoric Acid
NBK029 (K-8520D)	NBK010 (R-8510)	10-100 ppm	10 ppm	Tin chloride

NBM - Silica

NEW

Code-NBM001

Instrumental kits

Code AXL (Chemetrics)	Range	Method
NBM003 (K-9003)	V-2000: 0-10.00 ppm Spec: 0-4.00 ppm	Heteropoly Blue

Visual kits

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NBM001 (K-9011)	NBM004 (R-9011)	0-0.20 ppm	0.02 ppm	Heteropoly Blue
NBM002 (K-9010)	NBM005 (R-9010)	0-1 & 1-10 ppm	0.05 ppm	Heteropoly Blue

NBL - Sulfide

NEW

Code-NBL001

Instrumental kits

Code AXL (Chemetrics)	Range	Method
NBL006 (K-9503)	V-2000: 0-3.00 ppm Spec: 0-1.00 ppm	Methylene Blue
NBL007 (K-9523)	0-6.00 ppm	Methylene Blue

Instrumental kits

Code AXL (Chemetrics)	Range	Method
NBL013 (K-9203)	0-100.0 ppm	Turbidimetric

Visual kits

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NBL001 (K-9510)	NBL008 (R-9510)	0-1 & 1-10 ppm	0.05 ppm	Methylene Blue
NBL034 (K-9520D)	NBL008 (R-9510)	5-50 ppm	5 ppm	Methylene Blue
NBL035 (K-9520A)	NBL008 (R-9510)	25-250 ppm	25 ppm	Methylene Blue
NBL036 (K-9520B)	NBL008+NGB040 (R-9510)+A-0171	125-1250 ppm	125 ppm	Methylene Blue
NBL037 (K-9520C)	NBL008+NGB040 (R-9510)+A-0171	1000-10000 ppm	1000 ppm	Methylene Blue

NBL - Sulfide

Réf-NBL019

Réf-NBL014

Visual kits, Sulfite

Code AXL (Chemetrics)	Spare part AXL	Range	MDL	Method
NBL014 (K-9602)		2-20 ppm as SO3	2.0 ppm	Iodometry
NBL015 (K-9605)		5-50 ppm as SO3	5.0 ppm	Iodometry
NBL016 (K-9610)		10-100 ppm as SO3	10 ppm	Iodometry
NBL018 (K-9650)		50-500 ppm as SO3	50 ppm	Iodometry
NBL017 (K-9610)		10-100 ppm as SO2	10 ppm	Ripper (sulfite in wine)

Visual kits, Persulfate

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NBL019 (K-7870)	NBL020 (R-7870)	0-5.6 & 7-70 ppm as Na2S2O8	0.35 ppm	Iron Thiocyanate

NCB - Phenols

Instrumental kits

Code AXL (Chemetrics)	Range	Method
NCB006 (K-8003)	0-8.00 ppm	4-Aminoantipyrine
NCB007 (K-8023)	0-20.0 ppm	4-Aminoantipyrine

Code-NCB001

Visual kits

Code AXL (Chemetrics)	Spare part AXL	Range	MDL	Method
NCB001 (K-8012)	NCB008 (R-8012)	0-1 & 0-12 ppm	0.05 ppm	4-Aminoantipyrine
NCB023 (K-8020D)	NCB008 (R-8012)	0-300 ppm	25 ppm	4-Aminoantipyrine

NCC - Amines

Code-NCC001

Code-NCC002

These visual test kits use the standard methyl orange chemistry but features a unique extraction technique. This extraction eliminates several steps required by other procedures and increases the sensitivity of the test. This test takes 3-minutes total to complete.

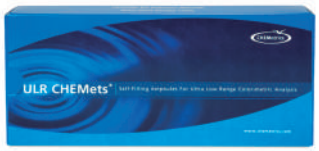
Visual kits

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NCC001 (K-1001)	NCC002 (R-1000)	0-1 ppm	0.05 ppm	Methyl Orange

NCD - Peracetic Acid

NEW

Code-NBD001



Code-NBD023

CHEMetrics' colorimetric test kits for the analysis of PAA in water are available in both visual and instrumental formats. Our self-filling ampoule technology reduces analyst exposure to reagent chemicals and test procedure complexity. All of our PAA test kits employ the total chlorine DPD method which produces a pink color in the presence of PAA. Recently Standard Methods for the Examination of Water and Wastewater published a validated PAA test procedure based on this method.

Visual kits

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NCD002 (K-7904)	NCD007 (R-7904)	0-1 & 0-5 ppm	0.05 ppm	DPD

Instrumental kits

Code AXL (Chemetrics)	Range	Method
NCD001 (K-7913)	0-5.00 ppm	DPD

Kits SAM

Code AXL (Chemetrics)	Range	Method
NCD023 (I-2020)	0-5.0 ppm	DPD

NCF - Glycol

NEW

Code-NCF001

Code-NCF002

Visual kits

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NCF001 (K-4815)	NCF002 (R-4815)	1-15 & 10-300 ppm*	1 ppm	Purpald-Periodate

**Ethylene glycol (EG) (up to 30,000 ppm EG or 60,000 ppm propylene glycol with sample dilution)*

NDB - Chemical Oxygen Demand (COD)

Code-NBD001

Code-NBD023

CHEMetrics offers two dichromate reactor digestion methods for fast, easy, safe determinations of low-, mid-, and high-range COD levels in wastewater: the USEPA-accepted Method* and a mercury-free method. The products using the USEPA-accepted method contain mercuric sulfate in the reagent to eliminate chloride interferences. The mercury-free product line is applicable when chloride interference is not a concern and USEPA reporting is not required.

Instrumental kits

Code AXL (Chemetrics)	Range	Method	Vials
NDB001 (K-7350S)	0-150 ppm (LR) USEPA-accepted	Dichromate Reactor Digestion	25
NDB002 (K-7355)	0-150 ppm (LR) USEPA-accepted	Dichromate Reactor Digestion	150
NDB003 (K-7351S)	0-150 ppm (LR) Mercury-free	Dichromate Reactor Digestion	25
NDB004 (K-7356)	0-150 ppm (LR) Mercury-free	Dichromate Reactor Digestion	150
NDB005 (K-7360S)	0-1500 ppm (HR) USEPA-accepted	Dichromate Reactor Digestion	25
NDB006 (K-7365)	0-1500 ppm (HR) USEPA-accepted	Dichromate Reactor Digestion	150
NDB007 (K-7361S)	0-1500 ppm (HR) Mercury-free	Dichromate Reactor Digestion	25
NDB008 (K-7366)	0-1500 ppm (HR) Mercury-free	Dichromate Reactor Digestion	150
NDB009 (K-7370S)	0-15.000 ppm (HR+) Not USEPA Approved	Dichromate Reactor Digestion	25
NDB010 (K-7375)	0-15.000 ppm (HR+) Not USEPA Approved	Dichromate Reactor Digestion	98
NDB011 (K-7371S)	0-15.000 ppm (HR+) Mercury-free	Dichromate Reactor Digestion	25
NDB012 (K-7376)	0-15.000 ppm (HR+) Mercury-free	Dichromate Reactor Digestion	98

NDC - Detergents

NEW

Code-NDC001

Code-NDC002

A detergent is a surfactant, or a mixture of surfactants, with cleaning properties designed to remove dirt from surfaces.

Surfactants are classified according to the charge of the hydrophilic head. If it has a positive charge, it is called a cationic surfactant, if it has a negative charge, it is called an anionic surfactant, and if the head is not charged, it is called a non-ionic surfactant.

The most commonly used surfactants in detergents are anionic surfactants.
The kits use the MBAS (Methlyene Blue Active Substances) method to provide measurements in ppm (mg/L) of linear alkylbenzene sulphonate (LAS).

Visual kits

Code AXL (Chemetrics)	Spare part AXL (Chemetrics)	Range	MDL	Method
NDC001 (K-9400)	NDC003 (R-9400)	0-3 ppm	0.125 ppm	Methylene Blue

Kits SAM

Code AXL (Chemetrics)	Spare part AXL	Range	Method
NDC002 (I-2017)	NDC005 (R-9423)	0-2.50 ppm	Methylene Blue

NDD - Hardness

NEW

Code-NDD003

Hardness is a measure of the mineral content of water. Calcium and magnesium are the most common minerals that contribute to hardness of water. The greater the concentration of dissolved minerals, the “harder” the water.

These hard water test kits utilize CHEMetrics Titrets® ampoules. Titrets ampoules use a reverse titration technique to measure analyte concentration levels (titrant volume inside the ampoule is fixed while the sample volume is varied). After snapping the ampoule tip, sample is drawn into the test ampoule in small doses until a color change signals the endpoint has been reached. The titration is stopped at the end point, and the liquid level in the ampoule corresponds to the concentration printed on a scale on the ampoule’s outer surface. We offer two different chemistries for analysis in our hard water test kits: the EGTA (for calcium hardness) and the EDTA method (for total hardness). Read more about each at the bottom of the page.

Visual kits

Code AXL (Chemetrics)	Range	MDL	Method
NDD003 (K-1705)	50-500 ppm as $CaCO_3$	50 ppm	EGTA (calcium)
NDD001 (K-4502)	2-20 ppm as $CaCO_3$	2.0 ppm	EDTA (total)
NDD002 (K-4520)	20-200 ppm as $CaCO_3$	20 ppm	EDTA (total)
NDD004 (K-4585)	100-1000 ppm as $CaCO_3$	100 ppm	EDTA (total)

NFD - Verification kits

NEW

NFD001 : For use with references I-2001 (Chlorine), I-2002 (Dissolved Oxygen), I-2005 (Chlorine Dioxide), I-2019 (Ozone DPD) and I-2020 (SAM Peracetic Acid Photometers).

NFD002 : For customers using the Vacu-vials® Hydrogen peroxide K-5543 and Hydrogen peroxide I-2016 kits, or the NFB001 or NFB002 multi-analyte photometers.

NFD001 : For use with reference I-2022 (Ozone Indigo).

NFD004 : Designed to check the performance of the NFB001 multianalyte photometer.

Code-NFD001

Visual kits

Code AXL (Chemetrics)	Description
NFD001 (I-0003)	Verification kit for 530 nm single-analysis measuring instruments
NFD002 (I-5543)	Hydrogen peroxide verification kit
NFD003 (I-7433)	Verification kit for single-analysis ozone meter
NFD004 (V-0002)	V-2000 photometer verification kit

NFB - Photometers

NEW

Code-NFB002

Code-NFB001

Photometer V-3000

The V-3000 Photometer is field portable, lightweight, tough, and waterproof. Reading concentration, absorbance, or percent transmittance, this versatile instrument stores up to 100 data points with date/time tags that can be downloaded to a computer.

Photometer V-2000

The V-2000 photometer is the most advanced microprocessor-based portable LED colorimeter on the market today. Packed with features, this portable water analyser automatically analyses pre-programmed analytes (over 50) using pre-measured, self-filling Vacu-Vial ampoules.

Comparative table

Features	NFB002 Photometer V-3000	NFB001 Photometer V-2000
Instrument applications	Portable / Office	Portable
Visualisation	Graphics / backlighting	LCD
Automatic shutdown control	Yes	No
Power supply options	Battery Rechargeable Battery Universal Cable / Plug	Battery
Wavelength (nm)	436, 517, 557, 594, 610, 690	420, 520, 580, 610
Data interface software	Yes	No
Ø tubes	13 mm, 28 mm	13 mm, 16 mm
Language selection	Yes, English, German, French, Spanish	No
Updating web-based methods	Yes	Yes
Protection class	IP67	IP67
Operating temperature	0 to 50°C	0 to 45°C
Data recording	100 points	100 points
Warranty	2 years	2 years

Zuzi-CHEMetrics visible spectrophotometer

Code HJB008 | Model 4265/50

For more information, scan the QR code

Functions

Spectrum

Adjustable scan speed and interval (low, medium, high speeds and intervals from 0.1 to 10.0 nm), with display modes (A / %T), automatic peak search, point-by-point view, and management of coordinates, curves, and data (delete, save, print).

User Program

Access to 44 programmed methods for CHEMetrics kits.

File

File management: deletion, renaming, batch import/export, and conversion to .txt and .csv.

System

System calibration (dark current, wavelength, baseline) and light source management (switch, timing), clock, memory status, language selection (6 options), and configuration (sound, brightness, screen timer, sample holder). Reset options and system information.

Performance verification

Wavelength and photometric accuracy, stray light, noise (including dark noise), stability, and bandwidth.

Photometry

Conversion A / %T / E with full results management (save, rename, delete, backup, print).

Quantitation

Single/double wavelength (difference, ratio) with three methods for standard curve setup (coefficients, measuring 2-10 standard samples, or entering absorbance/concentration), three adjustment options (linear with or without zero, quadratic), 19 pre-installed concentration units and customizable units, and results management.

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PBB - Glass apparatus/Pieces

Simple and fractional distillation equipment

The main purpose of distillation is to separate a liquid mixture whose components have different boiling points, or to separate volatile from non-volatile components.
This may be done in a single evaporation/condensation process, as in simple distillation, or by successive simple distillations taking place in a fractionating column, as in fractional distillation, with a progressive enrichment of the mixture in the most volatile component and used when the boiling points of the components differ by less than 25°C.

1| Made of borosilicate glass with 29/32 frosted joints.

Code	Description
PBB001	Simple distillation equipment, 250 mL
PBB002	Fractional distillation equipment, 250 mL
Composed of:	
	PBL015 - Round bottom flask, 29/32, 250 mL PBN010 - Refrigerante Liebig 300 mm PBP002* - Vigreux column ground joint 29/32, 320 mm PBQ028 - 75º glass adapter for thermometers PBQ031 - Bent distillation adapter joint 29/32, 100 mm KJB011 - Yellow solid-stem thermometer, red spirit, -10/110 FCM010 - Plastic clip for joint 29/32, red (3 units in PBB001 and 4 units in PBB002)

** fractional distillation equipment PBB002*
***Stand assebly not included*

Clevenger apparatus, "light" essential oil determination

1| Essential oil determination for oil lighter than water.
2| Heat resistant low expansion 3.3 borosilicate glass.
3| Extractor with a capacity of 10 mL and subdivisions of 0.10 mL.

Code	Description
PBB018	Clevenger apparatus
Composed of	
	Round bottom flask 24/29, 1000 mL Liebig condenser 24/29, 300 mm

PBB - Glass apparatus/Pieces

García Tena kit

The routine control of volatile acidity (volatile fatty acids of the acetic series) during the production of wines, ciders, etc., allows for the determination of the fermentation status of the musts, and since its content is limited by law, it helps to establish the quality of the final product and foresee the requirements for its preservation.
Among the various methods used in its calculation is the García Tena method, an approximate method by which the concentration of acetic acid, a secondary product mostly derived from alcoholic fermentation, is determined.
This acid is volatile, which is why its determination is referred to as volatile acidity, and it is responsible for the unpleasant "spoiled" smell, with elevated presence in the wine being considered a negative characteristic.
The García Tena method is based on the separation of volatile acids from the wine through fractional distillation, followed by an acid-base titration of the second portion of the distillate. Endo Glassware offers a complete kit for the determination of volatile acidity, which includes all the necessary elements to carry out this analysis.

The glass components are made from borosilicate glass and feature 14/23 ground joints. Each component of the kit can also be purchased separately for the replacement of damaged parts.

Code	PBB003
Composed of	
	CDB013- 1 Erlenmeyer flask, 50 mL DNB007 - 1 Graduated burette, 10 mL PBN006 - 1 Condenser Liebig, 120 mm DJJ005 - 1 Volumetric pipette, 11 mL PBZ001 - 1 Volumetric cylinder, 5.1 mL PBZ002 - 1 Volumetric cylinder, 3.2 mL FFJ002 - 1 Alcohol lamp 100 mL PNB001 - 1 Short stem funnel, 40 mm PBL004 - 1 Round bottom flask, 50 mL PBQ034 - 1 Double bent piece, ground joint 14/23 FCG008 - 2 Clamp with rotary bosshead FCB006 - 1 Retort stand, 100x175 mm FCM007 - POM clip for ground joints (2 units) FCV006 - 1 Closed retort ring with bosshead, 80 mm KJB011 - Yellow solid-stem thermometer -10/110ºC

PBB - Glass apparatus/Pieces

Simple and Fractional Distillation Equipment

YouTube

Equipment for simple and fractional distillation, highly useful in chemistry laboratories or for teaching purposes. Simple distillation is a technique used for the separation of liquids (with a boiling point <150° C) from non-volatile impurities and is also employed for the separation of two miscible liquids whose boiling points are below 150° C and differ by at least 25° C.

Code	Description
PBB015	Simple distillation equipment, 250 mL
PBB016	Fractional distillation equipment, 250 mL
Composed of	
	PBL015 - 1 Round bottom flask, 250 mL PBQ118 - 1 Bend piece, 75° PBQ113 - 1 Adapter for thermometer KJB011 - 1 Thermometer -10° C to +110 °C PBN038 - 1 Liebig condenser, 250 mm PBQ119 - 1 Bend distillation adapter, 65 mm (PBQ119) FCM010 - 4 Clips PBP002* - 1 Vigreux column, 320 mm

** only for equipments PBB016*

Apparatus for determination volatile oil in drugs

The essential oils contained in drugs and which usually contain active ingredients are generally volatile oils and can be extracted by a steam distillation process carried out with this glass apparatus.

Code	Capacity	Flask	Frosted
PBB009	1 mL	1000 mL	29/32

PBB - Glass apparatus/Pieces

Gas generator Kipp

The Kipp device, also called a Kipp generator, is used to generate small volumes of gas (CO2, H2S, H2, O2, etc.) at room temperature.
1| Made of borosilicate glass.
2| Three chambers interconnected by frosted joints.

Code	Description	Capacity
PBB007	Gas generator Kipp	500 mL
PBB008	Gas generator Kipp	1000 mL

PBC - Soxhlet extractors

50 mL

Code	PBC001
Composed of	
	PBN026 - Refrigerante Dimroth, 29/32 PBR001 - Extractor body, 19/26 and 29/32 PBK003 - Flat bottom flask 100 mL, 19/26
Extraction thimbles	PBD006 - 30x26x100 mm*

** not included*

125 mL

Code	PBC002
Composed of	
	PBN027 - Dimroth condenser, 45/40 PBR002 - Extractor body, 29/32 and 45/40 PBK008 - Flat bottom flask 250 mL, 29/32
Extraction thimbles	PBD008, 36x33x80 mm*

** not included*

250 mL

Code	PBC003
Composed of	
	PBN028 - Refrigerante Dimroth, 55/44 PBR004 - Extractor body, 29/32 and 55/44 PBK010 - Flat bottom flask 500 mL, 29/32
Extraction thimbles	PBD010, 36x33x100 mm*

** not included*

PBC - Soxhlet extractors

100 mL

Code	Description
PBC004	Complete 100 mL Soxhlet extractor, Allihn type
PBC009	Complete 100 mL Soxhlet extractor, Dimroth type
Composed of	
	Allihn and Dimroth condenser, 45/40 Extractor, 45/40 y 29/32 Round bottom flask 250 mL, 29/32

150 mL

Code	Description
PBC005	Complete 150 mL Soxhlet extractor, Allihn type
PBC010	Complete 150 mL Soxhlet extractor, Dimroth type
Composed of	
	Allihn and Dimroth condenser, 45/40 Extractor, 45/40 and 29/32 Round bottom flask 500 mL, 29/32

250 mL

Code	Description
PBC006	Soxhlet extractor condenser, Allihn type
PBC011	Soxhlet extractor condenser, Dimroth type
Composed of	
	Allihn and Dimroth condenser, 45/40 Extractor, 45/40 and 29/32 Round bottom flask 500 mL, 29/32

500 mL

Code	Description
PBC007	Soxhlet extractor condenser, Allihn type
PBC012	Soxhlet extractor condenser, Dimroth type
Composed of	
	Allihn and Dimroth condenser, 60/46 Extractor, 60/46 and 29/32 Round bottom flask 1000 mL, 29/32

1000 mL

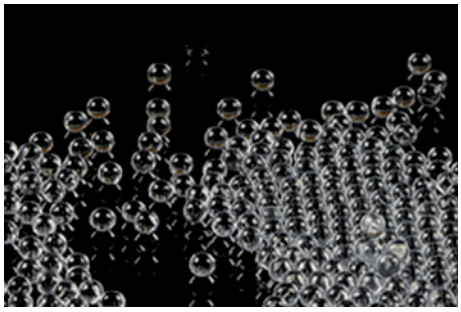
Code	Description
PBC008	Soxhlet extractor condenser, Allihn type
PBC013	Soxhlet extractor condenser, Dimroth type
Composed of	
	Allihn type condenser, 71/55 Extractor, 71/55 and 29/32 Round bottom flask 2000 mL, 29/32

PBD - Soxhlet extractors, thimbles

1| Manufactured in pure cellulose cotton free of fat and high mechanical resistance.
2| For solid-liquid extraction type Soxhlet, Kumagawa and other extraction equipment
3| Application in food industry, air pollution analysis, cosmetics, pharmacology, etc...

Code	Ø internal	Ø external	Height	Box of (uds.)
PBD001	14 mm	16 mm	30 mm	25
PBD003	19 mm	22 mm	90 mm	25
PBD002	18 mm	22 mm	60 mm	25
PBD004	22 mm	26 mm	60 mm	25
PBD005	23 mm	27 mm	80 mm	25
PBD022	26 mm	30 mm	60 mm	25
PBD006	26 mm	30 mm	100 mm	25
PBD007	29 mm	34 mm	80 mm	25
PBD008	33 mm	36 mm	80 mm	25
PBD009	33 mm	36 mm	94 mm	25
PBD010	33 mm	36 mm	100 mm	25
PBD011	34 mm	37 mm	130 mm	25
PBD012	37 mm	41 mm	123 mm	25
PBD013	38 mm	41 mm	150 mm	25
PBD014	41 mm	47 mm	123 mm	25
PBD015	46 mm	52 mm	165 mm	25
PBD016	54 mm	58 mm	170 mm	25
PBD017	58 mm	62 mm	170 mm	25
PBD018	65 mm	70 mm	240 mm	25
PBD019	75 mm	80 mm	200 mm	25
PBD020	75 mm	80 mm	250 mm	25
PBD021	92 mm	95 mm	250 mm	25

PBF - Glass balls



1| Manufactured from soda-lime glass.

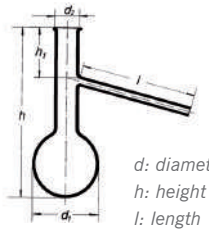
Code	Diameter	Bag of
PBF023	1 mm	1 kg
PBF015	1 mm	20 kg
PBF009	2 mm	0,5 kg
PBF001	2 mm	1 kg
PBF010	3 mm	0,5 kg
PBF002	3 mm	1 kg

PBF - Glass balls

Code	Diameter	Bag of
PBF017	3 mm	20 kg
PBF011	4 mm	0,5 kg
PBF003	4 mm	1 kg
PBF012	5 mm	0,5 kg
PBF004	5 mm	1 kg
PBF019	5 mm	20 kg
PBF013	6 mm	0,5 kg
PBF005	6 mm	1 kg
PBF020	6 mm	20 kg
PBF021	7 mm	0,5 kg
PBF006	7 mm	1 kg
PBF027	7 mm	20 kg
PBF014	8 mm	0,5 kg
PBF007	8 mm	1 kg
PBF024	10 mm	1 kg

PBG - Flasks, distillation

DIMENSIONS



d: diameter
h: height
l: length

Glass piece specially designed to perform the simple distillation process by connecting a coolant to the side arm and a control thermometer in the mouth.
1| Made of borosilicate glass.

Code	Cap.	d2	h.	l.
PBG001	100 mL	15 mm	174 mm	100 mm
PBG002	250 mL	19 mm	216 mm	120 mm
PBG003	500 mL	24 mm	275 mm	150 mm
PBG004	1000 mL	28 mm	320 mm	180 mm

Ref.	Cap.	Ø tube	h.	l.
PBG005	100 mL	22 mm	150 mm	200 mm
PBG006	250 mL	34 mm	200 mm	200 mm
PBG007	500 mL	34 mm	250 mm	200 mm

PBH - Flasks, Erlenmeyer

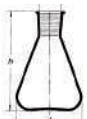
Female Joint

Code	Cap.	Frosted	d.	h.
PBH001	25 mL	14/23	42 mm	75 mm
PBH002	25 mL	19/26	42 mm	75 mm
PBH003	50 mL	14/23	51 mm	85 mm
PBH004	50 mL	19/26	51 mm	85 mm
PBH005	50 mL	24/29	64 mm	85 mm
PBH006	50 mL	29/32	64 mm	85 mm
PBH007	100 mL	14/23	64 mm	105 mm
PBH008	100 mL	19/26	64 mm	105 mm
PBH009	100 mL	24/29	64 mm	105 mm
PBH010	100 mL	29/32	64 mm	105 mm
PBH011	150 mL	19/26	72 mm	118 mm
PBH012	150 mL	29/32	72 mm	118 mm
PBH032	150 mL	24/29	72 mm	118 mm
PBH033	200 mL	29/32	79 mm	131 mm
PBH013	250 mL	19/26	85 mm	140 mm
PBH014	250 mL	24/29	85 mm	140 mm
PBH015	250 mL	29/32	85 mm	140 mm
PBH034	300 mL	29/32	87 mm	156 mm
PBH035	500 mL	19/26	105 mm	175 mm
PBH016	500 mL	24/29	105 mm	175 mm
PBH017	500 mL	29/32	105 mm	175 mm
PBH018	1000 mL	29/32	131 mm	220 mm
PBH036	1000 mL	29/32	87 mm	156 mm
PBH037	2000 mL	34/35	166 mm	270 mm
PBH019	2000 mL	29/32	166 mm	280 mm

ISO
4797
BORO
3.3

Dimensions

d: diameter
h: height



1| Frosted mouth for connection and assembly.
2| White graduation and marking surface. For other volumes or frosted, please consult.

Code	Cap.	Frosted	d.	h.
PBH020	50 mL	19/26	51 mm	85 mm
PBH021	100 mL	19/26	64 mm	105 mm
PBH022	100 mL	29/32	64 mm	105 mm
PBH023	250 mL	29/32	85 mm	140 mm
PBH024	250 mL	45/40	85 mm	140 mm
PBH025	500 mL	29/32	105 mm	175 mm
PBH026	500 mL	45/40	105 mm	175 mm
PBH027	1000 mL	29/32	131 mm	215 mm
PBH028	1000 mL	45/40	131 mm	215 mm
PBH029	2000 mL	45/40	166 mm	275 mm
PBH031	5000 mL	45/40	220 mm	365 mm

PBH - Flasks, Erlenmeyer

Erlenmeyer flask cone

1| Suitable for filtration equipment.
2| Ungraded

Code	Capacity	Frosted
PBH030	1000 mL	40/35

Code	Capacity	Frosted
PBH038	1000 mL	40/35
PBH039	2000 mL	40/35

Amber

Code	Capacity	Frosted
PBH515	250 mL	29/32

PBJ - Flasks, evaporation

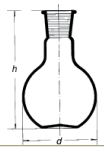
1| Evaporation flask suitable for rotary evaporators.
2| Frosted mouth.

Code	Cap.	Frosted
PBJ001	50 mL	29/32
PBJ002	100 mL	29/32
PBJ007	100 mL	24/29
PBJ003	250 mL	29/32
PBJ008	250 mL	24/29
PBJ004	500 mL	29/32
PBJ009	500 mL	24/29
PBJ005	1000 mL	29/32
PBJ010	1000 mL	24/29
PBJ006	2000 mL	29/32

PBK - Flasks, flat bottom

Flat bottom flask

d:diameter
h: height



1| Flat bottom spherical flask with frosted mouth.
2| Complies with USP regulations.

Code	Cap.	Frosted	Height	Diameter
PBK001	50 mL	14/23	85 mm	51 mm
PBK002	50 mL	29/32	85 mm	51 mm
PBK018	50 mL	19/26	85 mm	51 mm
PBK019	50 mL	24/29	85 mm	51 mm
PBK003	100 mL	19/26	103 mm	64 mm
PBK004	100 mL	24/29	103 mm	64 mm
PBK005	100 mL	29/32	103 mm	64 mm
PBK006	250 mL	19/26	130 mm	85 mm
PBK007	250 mL	24/29	130 mm	85 mm
PBK008	250 mL	29/32	130 mm	85 mm
PBK009	500 mL	24/29	160 mm	105 mm
PBK010	500 mL	29/32	160 mm	105 mm
PBK011	1000 mL	24/29	187 mm	131 mm
PBK012	1000 mL	29/32	187 mm	131 mm
PBK013	2000 mL	29/32	230 mm	166 mm

PBK - Flasks, flat bottom

1 neck

BORO 3.3

1| Flat bottom spherical flask with frosted mouth. Complies with USP regulations. For other volumes or frosted, please consult.

Code	Cap.	Frosted	Height	Diameter
PBK014	100 mL	29/32	110 mm	64 mm
PBK015	250 mL	29/32	140 mm	85 mm
PBK016	500 mL	29/32	170 mm	105 mm
PBK017	1000 mL	29/32	200 mm	131 mm
PBK024	2000 mL	29/32	250 mm	166 mm
PBK025	4000 mL	45/40	300 mm	207 mm
PBK026	10000 mL	60/46	400 mm	279 mm

1| Amber glass

Code	Cap.	Frosted
PBK507	100 mL	29/32
PBK508	250 mL	29/32
PBK509	500 mL	29/32

PBL - Flasks, round bottom

1 necks

BORO 3.3

ISO 4797

1| Round bottom spherical flask with frosted mouth. For other volumes or frosted, please consult.

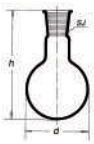
Code	Cap.	Frosted	d.	h.
PBL023	100 mL	29/32	115 mm	64 mm
PBL024	250 mL	29/32	145 mm	85 mm
PBL025	500 mL	29/32	175 mm	105 mm
PBL026	1000 mL	29/32	210 mm	131 mm
PBL027	2000 mL	29/32	260 mm	166 mm

PBL - Flasks, round bottom

1 neck

DIMENSIONS

d: width
h: height



BORO 3.3

ISO 4797

1| Round bottom spherical flask with frosted mouth.
2| Complies with USP and ISO/DIN 4797 standards except for articles (*). For other volumes or frosted, please consult.

Code	Cap.	Frosted	h.	d.
PBL001	10 mL	14/23	35 mm	70 mm
PBL002	25 mL	14/23	85 mm	41 mm
PBL003	25 mL	19/26	85 mm	41 mm
PBL004	50 mL	14/23	90 mm	51 mm
PBL005	50 mL	19/26	90 mm	51 mm
PBL006	50 mL	24/29	95 mm	51 mm
PBL007	50 mL	29/32	95 mm	51 mm
PBL008	100 mL	14/23	105 mm	64 mm
PBL009	100 mL	19/26	105 mm	64 mm
PBL010	100 mL	24/29	105 mm	64 mm
PBL011	100 mL	29/32	105 mm	64 mm
PBL036	150 mL	24/29	137 mm	75 mm
PBL037	150 mL	29/32	137 mm	75 mm
PBL012	250 mL	14/23	140 mm	85 mm
PBL013	250 mL	19/26	140 mm	85 mm
PBL014	250 mL	24/29	140 mm	85 mm
PBL015	250 mL	29/32	140 mm	85 mm
PBL016*	500 mL	19/26	163 mm	105 mm
PBL017	500 mL	24/29	163 mm	105 mm
PBL018	500 mL	29/32	163 mm	105 mm
PBL019	1000 mL	24/29	200 mm	131 mm
PBL020	1000 mL	29/32	200 mm	131 mm
PBL040	1000 mL	19/26	200 mm	131 mm
PBL021	2000 mL	24/29	240 mm	166 mm
PBL022	2000 mL	29/32	240 mm	166 mm
PBL032	2000 mL	34/35	240 mm	165 mm
PBL043	3000 mL	29/32	260 mm	185 mm
PBL033	4000 mL	45/40	315 mm	207 mm
PBL041	5000 mL	45/40	305 mm	223 mm
PBL044	5000 mL	29/32	305 mm	223 mm
PBL042	10000 mL	45/40	380 mm	279 mm

PBL - Flasks, round bottom

2 - 3 necks

1| Round bottom spherical flask with frosted mouth. USP compliant. For other volumes or frosted, please consult.

Code	Cap.	Neck	Frosted 1	Frosted 2	Frosted 3	Height
PBL028	250 mL	2	24/29	19/26	-	140 mm
PBL046	250 mL	2	29/32	14/23	-	140 mm
PBL048	250 mL	3	19/26	19/26	19/26	140 mm
PBL049	250 mL	3	24/29	14/23	14/23	140 mm
PBL029	500 mL	2	24/29	19/26	-	163 mm
PBL047	500 mL	2	29/32	14/23	-	163 mm
PBL031	500 mL	3	29/32	29/32	29/32	163 mm
PBL050	500 mL	3	24/29	16/26	16/26	163 mm
PBL030	1000 mL	3	29/32	29/32	29/32	200 mm
PBL051	2000 mL	3	29/32	24/29	24/29	240 mm

Code	Cap.	Neck	Frosted 1	Frosted 2	Frosted 3
PBL058	1000 mL	3	29/32	29/32	14/23
PBL059	1000 mL	2	29/32	14/23	-

PBM - Flasks, pear-shape

Pear shaped flask

Code	Capacity	Frosted	Neck
PBM001	25 mL	14/23	1
PBM002	50 mL	14/23	2
PBM005	50 mL	14/23	1
PBM006	100 mL	14/23	1
PBM008	100 mL	14/23	2

PBN - Condensers

Allihn condenser

1| 5-ball coolant with double frosted mouth. For applications requiring reflux.

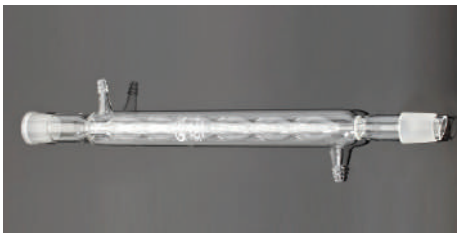
Code	Usefull lenght	Total lenght	Frosted
PBN001	160 mm	280 mm	14/23
PBN002	250 mm	386 mm	29/32

Allihn 6 ball

1| Six-ball condenser with double ground joints. For applications requiring reflux.

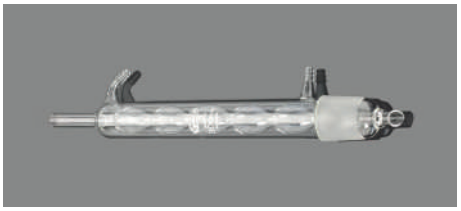
Code	Useful length	Male frosted	Female frosted
PBN049	300 mm	29/32	29/32
PBN055	300 mm	24/29	24/29

Allihn



Code	Lenght	Frosted
PBN041	160 mm	19/26
PBN042	250 mm	24/29

Allihn for Soxhlet



Code	Lenght	Frosted	For extractor of
PBN032	300 mm	45/40	100 mL
PBN039	400 mm	60/46	500 mL

PBN - Condensers

Liebig West

1| Double frosted liner coolant except (*). For distillations that require little cooling.

Code	Usefull lenght	Total lenght	Frosted
PBN005	100 mm	220 mm	14/23
PBN006*	120 mm	250 mm	14/23 (Female)
PBN007	150 mm	270 mm	14/23
PBN008	200 mm	350 mm	19/26
PBN009	200 mm	310 mm	14/23
PBN036	200 mm	370 mm	24/29
PBN010	300 mm	460 mm	29/32
PBN011	300 mm	450 mm	19/26
PBN012	400 mm	560 mm	29/32

Code	Usefull lenght	Frosted
PBN065	160 mm	14/23
PBN035	160 mm	19/26
PBN038	250 mm	29/32
PBN059*	300 mm	29/32
PBN045*	400 mm	24/29

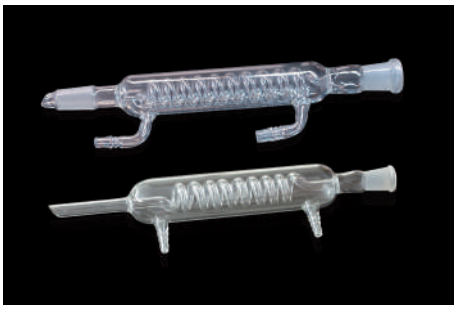
** No DIN*

Liebig condenser

Code	Usefull lenght	Total lenght
PBN014	200 mm	350 mm
PBN015	200 mm	400 mm

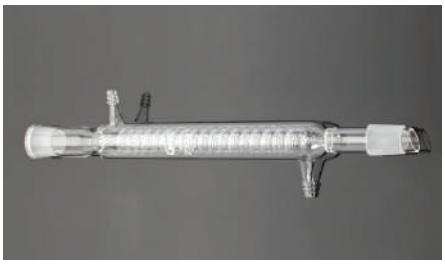
PBN - Condensers

Coil condenser



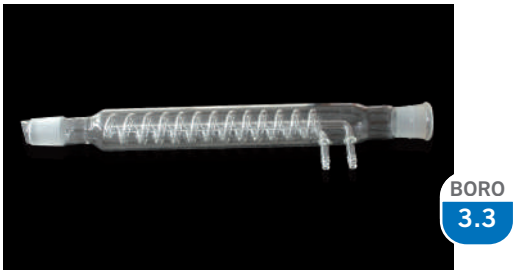
1| It has an inner coil where the steam circulates and condenses.
2| The coolant circulates outside the coil.
3| For distillations that require prolonged cooling.

Code	Usefull lenght	Total lenght	Female	Male
PBN016	120 mm	195 mm	–	–
PBN017	120 mm	205 mm	14/23	–
PBN018	120 mm	215 mm	14/23	14/23
PBN019	160 mm	270 mm	14/23	–
PBN020	200 mm	300 mm	–	45/40
PBN021	250 mm	400 mm	19/26	–
PBN022	350 mm	460 mm	–	–
PBN023	350 mm	470 mm	29/32	–



Code	Usefull lenght	Female	Male
PBN037	400 mm	29/32	29/32

Dimroth condenser



1| They have an inner coil where the coolant circulates.
2| Vapour circulates outside the coil.
3| For distillations that require prolonged cooling.

Code	Usefull lenght	Total lenght	Female	Male
PBN025	160 mm	300 mm	14/23	14/23
PBN024	250 mm	400 mm	29/32	29/32

PBN - Condensers

Dimroth for Soxhlet

Code	Usefull lenght	Total lenght	Frosted
PBN027	180 mm	310 mm	45/40
PBN028	200 mm	360 mm	55/44

Dimroth for Soxhlet

Code	Usefull lenght	Frosted	Extractor
PBN033	300 mm	14/23	100 mL
PBN046	400 mm	29/32	250 mL
PBN040	400 mm	60/46	500 mL
PBN034	400 mm	71/55	1000 mL

Cold finger condenser

1| It allows to have a localized cold spot.

Code	Frosted male	Olive
PBN029	14/23	13 mm

PBP - Distillation columns

Vigreux column

Code	Lenght	Frosted
PBP001	300 mm	14/23
PBP002	320 mm	29/32

PBQ - Connectors/Adapters

Extension adapter

1| They comply with DIN 12257 except (*). For other measurements, please consult.

Code	Male frosted	Female frosted
PBQ001	14/23	29/32
PBQ002	19/26	29/32
PBQ003	24/29	29/32
PBQ087	24/29	14/23
PBQ089	24/29	19/26

Adapter reduction

1| They comply with DIN 12257 except (*). For other measurements, please consult.

Code	Frosted male	Frosted female
PBQ007*	24/29	14/23
PBQ008	29/32	14/23
PBQ009	29/32	19/26
PBQ010*	29/32	24/29
PBQ083	29/32	24/29
PBQ087	24/29	14/23
PBQ089	24/29	19/26
PBQ092	2x 14/23	14/23
PBQ120	45/40	29/32

Male ground joint

Code	Frosted	Ø ext x L
PBQ012	12/21	9x120 mm
PBQ013	14/23	13x120 mm
PBQ014	19/26	16x120 mm
PBQ072	24/29	22x135 mm
PBQ073	29/32	26x135 mm
PBQ125	10/19	8x115 mm
PBQ126	34/35	30x135 mm
PBQ127	40/38	36x90 mm
PBQ128	50/42	45x140 mm
PBQ129	55/44	50x140 mm

PBQ - Connectors/Adapters

Double bent piece

Code	Diameter	Lenght	Frosted
PBQ021	7 mm	160 mm	-
PBQ022	12 mm	250 mm	-
PBQ034	7 mm	160 mm	14/23 (mm)
PBQ035	25 mm	280 mm	29/32 (mm)

Glass adapter for thermometers

1 | With threaded plug for coupling control thermometer.

Code	Screw	Frosted	Angle
PBQ026	13	14/23 (M)	-
PBQ027	8	14/23 (M/M)	75º
PBQ028	18	29/32 (M/M)	75º

Glass adapter for thermometers

1 | With threaded plug for coupling control thermometer.

Code	Screw	Frosted
PBQ111	6	19/26
PBQ112	6	24/29
PBQ113	6	29/32

PBQ - Connectors/Adapters

Connecting adapter with hose

Code	Frosted	Ø olive
PBQ029	14/23 (M/H)	10 mm

Bent distillation adapter joint

Code	Lenght	Angle	Frosted
PBQ031	100 mm	105º	29/32

Bends plain lenght

Code	Frosted	Lenght
PBQ067	24/29	65 mm
PBQ119	29/32	65 mm
PBQ160	14/23	65 mm
PBQ161	19/26	65 mm

Bent distillation adapter joint

Code	Frosted	Lenght
PBQ030	14/23	130 mm
PBQ068	29/32	200 mm
PBQ095	19/26	200 mm
PBQ142	24/29	200 mm

PBQ - Connectors/Adapters

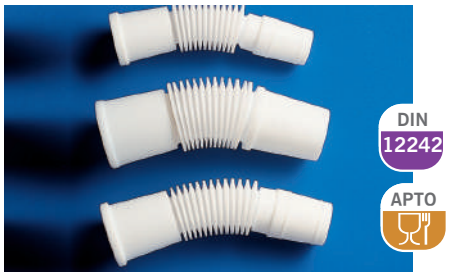
Claisen adapter

Code	Frosted
PBQ041	29/32

Receiver adapter for 2 flasks

Code	Frosted	Ø olive
PBQ033	14/23 (M/H)	10 mm

Supple connector PTFE



Code	Usefull lenght	Total lenght	Frosted
PBQ036	20.65 mm	24.11 mm	112.83 mm
PBQ037	25.70 mm	29.63 mm	130.34 mm
PBQ038	31.36 mm	34.40 mm	117.44 mm

Bends with vent sock

Code	Female	Male
PBQ099	14/23	14/23
PBQ100	19/26	19/26
PBQ101	19/26	24/29

PBQ - Connectors/Adapters

Adapter, Still Head Plain Socket

Code	Thermometer holder	Flask cone	Condenser cone
PBQ023	14/23	14/23	14/23
PBQ024	14/23	19/26	19/26
PBQ025	14/23	24/29	24/29
PBQ118	29/32	29/32	29/32
PBQ153	14/23	24/29	19/26
PBQ154	14/23	29/32	29/32

Bends plain socket

Code	Female	Male
PBQ105	19/26	19/26
PBQ106	19/26	24/29
PBQ110	29/32	29/32
PBQ151	14/23	14/23

Receiver adapter with vaccum connection

Code	Female	Male
PBQ143	14/23	14/23
PBQ144	14/23	19/26
PBQ145	19/26	19/26
PBQ146	19/26	24/29
PBQ147	24/29	24/29
PBQ148	24/29	29/32
PBQ149	29/32	29/32

PBQ - Connectors/Adapters

Adapter "T" piece sock

Code	Female	Male
PBQ108	14/23	14/23
PBQ109	14/23	19/26

Receiver adapters

Code	Female	Male
PBQ150	2x 19/26	2x 19/26

Recovery bend sloping

Code	Frosted 1	Frosted 2
PBQ152	29/32	29/32

Adapter cone to rubber tubing 45°

Code	Frosted
PBQ156	14/23
PBQ157	19/26

PBQ - Connectors/Adapters

Splash head, vertical, Cone

Code	Frosted 1	Frosted 2
PBQ155	29/32	29/32

Chemistry Set 9 Items

Composed for: 50 mL pear-shaped flask, size 14/23, Angled connector, esm.14/23, Liebig condenser, 150 mm, esm.14/23, Adapter for thermometer with thread, esm.14/23, Angled terminal, esm.14/23, Steam inlet tube, esm.14/23, Decanting funnel, esm.14/23, Glass stopper, esm.14/23, Thermometer, 0-360° C

Code	Description
PBQ116	Chemistry Set 9 Items

Chemistry Set 16 Items

Code	Description
PBQ117	Chemistry Set 16 Items

Composed for:

Angled connector, Frosted female: 14/23; male: 19/26
Angled terminal, Frosted: 19/26; male: 24/29
Air/steam output, Frosted case: 19/26
Liebig condenser, Frosted female: 19/26; male: 19/26
Decanting funnel, 100 mL, Frosted female and male: 19/26
Reducing connector, Frostedfemale: 19/26; male: 24/29
Multiple adapter, Frosted female: 19/26; male: 24/29
Flask round bottom, 50 mL, Frosted female: 24/29
Flask round bottom, 100 mL, Frosted female: 24/29
Flask round bottom, 250 mL, Frosted female: 24/29
Flask Erlenmeyer, 250 mL, Frosted female: 24/29
Glass stopper, Frosted male: 19/26
Glass stopper, Frosted male: 19/26
Thermometer adapter, Frosted case: 14/23
Angled terminal, Frosted female: 19/26
Glass stopper, Frosted male: 24/29

PBR - Extractor bodies

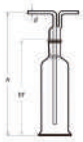
Code	Capacity	Frosted male	Frosted female
PBR001	50 mL	19/26	29/32
PBR002	125 mL	29/32	45/40
PBR004	250 mL	29/32	55/44

Code	Capacity	Frosted male	Frosted female
PBR005	100 mL	29/32	45/40
PBR006	250 mL	29/32	45/40
PBR007	500 mL	29/32	60/46
PBR008	1000 mL	29/32	71/55

PBS - Gas washing bottles

Bottle gas washing

DIMENSIONS



h: height
d: tube diameter

Code	Cap.	d.	h.	h1
PBS001	100 mL	40 mm	200 mm	250 mm
PBS002	250 mL	54 mm	200 mm	250 mm
PBS003	500 mL	77 mm	200 mm	250 mm
PBS004	1000 mL	110 mm	200 mm	250 mm

Adapter for gas washing bottle

Dimensions

h: height
d: tube diameter

Code	d.	h1	h2	l	Frosted
PBS005	8 mm	180 mm	50 mm	40 mm	29/32

PBS - Gas washing bottles

Bottle Dreschler without lid

Code	Capacity	Diameter	Height
PBS009	100 mL	40 mm	200 mm
PBS008	250 mL	54 mm	200 mm

PBT - Woolf bottles

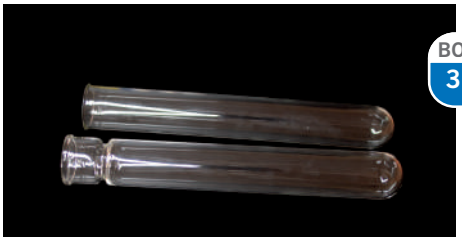
Dimensiones

SJ1: diameter1.
SJ2: diameter2.

Code	Cap.	SJ1	SJ2
PBT005	1000 mL	24/29	19/26
PBT002	5000 mL	45/40	24/29

PBV - Tubes

Buchi digestion tube



Code	Lenght	Constriction	Diameter	Digestor
PBV001	300 mm	Yes	42 mm	Buchi
PBV002	300 mm	No	42 mm	Tecator et autres

PBV - Tubes

Storage tube with hose connection

Code	Capacity	Frosted	Ø olive
PBV004	20 mL	a14/23	10 mm

Drying tube

Code	Frosted
PBV003	14/23

Glass tube connection

Code	Ø	Angle	Dimensions
PBV005	8	90°	100x100 mm
PBV006	8 mm	2x 90°	200x200x100 mm
PBV007	7 mm	90°	100x100 mm
PBV008	7 mm	90°	200x100 mm
PBV009	7 mm	2x90°	200x100x100 mm
PBV010	7 mm	2x90°	200x200x100 mm
PBV011*	7 mm	2x90°	100x210x200 mm
PBV012*	7 mm	90° and 120°	50x200x200 mm

** with hook*

PBV - Tubes

Air inlet tube

Code	Frosted male	Length
PBV019	14/23	150mm
PBV020	19/26	150mm
PBV021	24/29	150mm

Tube drying

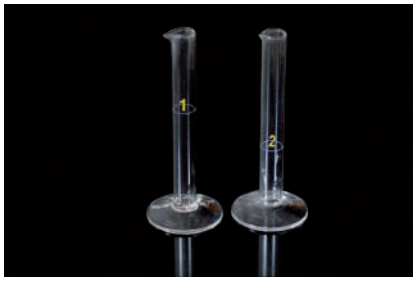
Code	Frosted
PBV026	19/26

Glass tube connection with picklock

Code	Ø	Angle	Dimensions	Trademark
PBV022	7 mm	90º	200x200	Simax
PBV023	7 mm	2x90º	200x200	Endo Glassware

PBZ - Others

Volumetric cylinder



Code	Capacity	Diameter	Height
PBZ001	5,1 mL	12 mm	110 mm
PBZ002	3,2 mL	12 mm	110 mm

PBZ - Others

Willstatter filter

1| For the Garcia Tena method of volatile acidity.

Code	Frosted	Diameter
PBZ003	14/23	45 mm

Lining for glass tapers

1| Designed to protect frosted glass cones. Made of PTFE.

Code	Frosted	Ø interior	Lot
PBZ006	7,5/16	6 mm	**10**
PBZ007	10/19	8 mm	**10**
PBZ008	12/21	10 mm	**10**
PBZ009	14/23	12 mm	**10**
PBZ010	19/26	16 mm	**10**
PBZ011	24/29	21 mm	**10**
PBZ012	29/32	26 mm	**10**
PBZ013	34/35	31 mm	**10**
PBZ014	45/40	42 mm	**10**

Gas collecting tube

Code	Capacity
PBZ019	60 mL
PBZ020	125 mL
PBZ021	150 mL

PBZ - Others

Silicone grease

Code	Description	Weight
PBZ022	Silicone grease for cones and sockets	50 g

PDB - Demineralizers

Demineralizer of water LAB-ION L2

1| Wall deionizer to obtain purified water. Residue of calcination less than 1mg/litre.
2| Inactinic, bio-destructible and economical replacement cartridge.
3| Supplied complete with wall support.

Code	PDB001
Ultra-pure water	0,1-20 μS/cm
Distillation capacity (máx.)	40 L/h (a 4 bar)
Capacity (máx.)	810 L (a 5ºdH)
Resin	Disposable mixed bed
Dimensions	115 x 515 mm
Power	110-220V, 50/60 Hz

Accessories - NOT included

Cartridge for demineralizator

Code PDD001

PDB - Demineralizers

Water purification system Basic 5

1| The purified water, depending on the flow rate of the tap water, has a conductivity ranging from 0,2 to 0,8 μS/cm and meets the requirements of ISO 3696: 1999 (Water for analytical laboratory use. Specification and test methods.) for grades II.
2| Tap water requirements:
- Conductivity: < 1200 μS/cm
- Minimum pressure: 3 bar
- Temperature: 4-40ºC
- Hardness < 250 mg $CaCO_3$/dm^3
- Iron < 0,2 mg/dm^3

3| Without reverse osmosis (RO) process.

Code	PDB007
Water supply	Tap water
Dimensions	235x440x510 mm
Purified water production capacity	5 L
Purified water production conductivity	0,06-0,8 μS/cm
Alerts	Messages/alarms from monitoring
Modules	Interchangeable and easy replacement
Software	External
Pressure gauge	For feed water

ACCESORIES HYDROLAB BASIC 5 - COMPATIBLE REPLACEMENTS

Integrated module A2
Code *PDD007**

Pre-filter cartridge 5 μm 10"
Code *PDD008**

Ion exchange module H6
Code *PDD010*

** The cartridge's lifespan may vary depending on the flow rate, its characteristics, and the level and type of mineralization in the mains water.*
*** The volume of treated water depends on the feed water quality, with a maximum of dissolved salts in the feed water of 1200 mg/l*

Water purification system HLP Smart

1| The purified water has a conductivity of less than 0,06 μS/cm and meets the requirements of the ISO 3696: 1999 (Water for analytical laboratory use. Specification and test methods) for grade 2 water.
2| Tap water requirementes:
- Conductivity < 1200 μS/cm
- Minimum pressure: 3 bar
- Temperature: 4-40ºC
- Hardness < 250 mg $CaCO_3$/dm^3
- Iron < 0,2 mg/dm^3

Code	PDB006	PDB006.40
Water supply	Tap water	
Dimensions	200x370x430 mm	
Purified water production capacity	4 L/h*	
Purified water conductivity	< 0,06 μS/cm	
Alerts	Messages/alarms from monitoring	
Modules	Interchangeable and easy replacement	
Software	External	
Pressure gauge	For tap water	
Storage tank	10L *(purified water)*	40L *(purified water)*

** available for capacities from 5 to 60 L/h*

ACCESORIES HYDROLAB HLP SMART - COMPATIBLE REPLACEMENTS

Integrated module A2
Code *PDD007**

Pre-filter cartridge 5 μm 10"
Code *PDD008**

Module H7 ion exchange
Code *PDD009***

** The cartridge's lifespan may vary depending on the flow rate, its characteristics, and the level and type of mineralization in the mains water.*
*** The volume of treated water depends on the feed water quality, with a maximum of dissolved salts in the feed water of 1200 mg/l*

PDB - Demineralizers

Water purification system ULTRA

1| The purified water meets the requirements of the ISO 3696: 1999 (Water for analytical laboratory use. Specification and test methods.) for grade I water. It can be used in instrumental analysis techniques such as AAS, ICP/MS, IC, HPLC, GC, in bacterial culture and biochemical analysis.
2| Automatic equipment for producing ultrapure water, with a recirculation circuit with a TOC ion exchange module, a 254 nm photooxidation module (UV lamp) and a 0.45/0.2 μm cascade microfiltration capsule.
3| It is advisable to carry out an annual sanitation of the system. For this, the sanitation kit code: PDD027 and the disinfectant powder code: PDD028 are necessary.

Code	PDB008
Water supply	External source of pretreated water (purity grade II or III)
Ultrapure water production capacity	1 L/min minimum
Ultapure water conductivity	< 0,055 μS/cm
TOC	< 5 ppb
Bactteries	< 1 ufc/mL
Particles > 0,2 μm	< 1/mL
Modules	Interchangeable and easy replacement
Pressure gauge	For feed water
Pump	Recirculation
Dimensions	235x470x570 mm
Software	External

Water purification system R5 UV

1| The purified water obtained has a conductivity of less than 0.055 μS/cm and meets the requirements of ISO 3696: 1999 (Water for use in laboratory analysis. Specification and test methods) for class I water. It is suitable for instrumental analysis techniques (AAS, ICP/MS, IC, HPLC, GC), bacterial cultures and biochemical analysis.
2| Recommended feed water requirements:
- Conductivity < 1200 μS/cm
- Pressure > 3,0 bar
- Temperature: 5-40 ºC
- Hardness < 250 mg $CaCO_3$/L
- Fe < 0,2 mg/L

3| With built-in UV lamp.

Code	PDB009
Water supply	Tap water
Housing material	Stainless steel
Dimensions	275x470x570 mm
Production capacity	5-7 L/h
Recirculation	Automatic ultrapure water recirculation between water collections
Conductivity	< 0,055 μS/cm
TOC	< 3 ppb
Bacteria	< 1 ufc/mL
Particles > 0,2 μm	< 1/mL
Alerts	Messages / Monitoring alarms
Modules	Interchangeable and easy to replace

** capacities from 5 to 60 L/h*

ACCESORIES HYDROLAB R5 UV - COMPATIBLE REPLACEMENTS

Integrated module A2
Code *PDD007**

H7 TOC Ion exchange module
Code *PDD011****

Pre-filter cartridge 5 μm 10"
Code *PDD008**

Microfiltration capsule 0.45/0.2 μm 150 cm^2
Code *PDD012*

UV lamp 185/254 nm HLP
Code *PDD031***

** If the parameters of the feed water are different (hard water), the lifetime of the spare parts may be shorter.*
*** Time 12 months or 8500 hours*
**** The lifetime of the cartridge may vary depending on the tap water flow rate, as well as on the type of mineralization.*

PDG - Distillers

Glass water still 4 l/h, Basic PH4

1| Continuously obtaining distilled water. It has a safety thermostat.
2| Robust heating block with chrome resistance. Set of borosilicate glass.

Code	PDG001
Distillation capacity	4 l/h
Conductivity (feeding tap water)	3.0-4.0 µS/cm
Conductivity (feeding trated water)	1.5-2.0 µS/cm
pH	5.5-6.0
Resistance	1 x 3000 W
Dimensions	50x15x45 cm
Power	220V, 50Hz
Weight	6 kg

Glass water still 4 l/h, QUARTZ

1| Continuously obtaining distilled water. Quartz resistance.
2| Safety system with water inlet flow sensor (pressure switch).
3| Made entirely of high quality borosilicate glass.
4| With adapted support for its coupling to the wall.

Code	PDG002
Distillation capacity	4 L/h
Conductivity at 20 ºC	2 µS/cm
Water consumption	1 L/min
Resistance	1x2500
Dimensions	55x15x50 cm
Power	230 V, 50/60 Hz, 11 A
Weight	4 kg

Glass, vertical

1| Vertical distiller for the production of distilled water with a space-saving design thanks to its vertical construction.
2| The glass parts are made of borosilicate glass to ensure better equipment function and safety.

Code	PDG007
Production capacity	4 L/h
Conductivity at 20ºC	1,5 - 2,5 µS/cm
Water consumption	45 L/h
Dimensions	190x190x600 cm
Power	230V, 50/60Hz, 15A

Water distillers “R-4 Reser”

1| External case epoxy covered.
2| Cooling and heating elements made of stainless steel.
3| Easy to dismantle for cleaning.
4| Thermostat that disconnects the heater when there’s lack of water supply.

Code	PDG505
Distillation capacity	4 l/h
Water storage tank	8 L
Water consumption	1 l/min
Conductivity at 20 ºC	1.5 µs/cm
Dimensions	50x63x32 cm
Power	1x3000 W
Weight	24 kg

PDJ - Water Still, accessories

Code	Description	For models
PDJ001	Heating block with resistance	Basic pH 4
PDJ002	Joints and screws kit	Basic pH 4
PDJ003	Hose kit with connectors	Basic pH 4
PDJ004	Glass boiler	Basic pH 4
PDJ005	Glass condenser	Basic pH 4
PDJ006	Metal support	Basic pH 4

Code	Description	For models
PDJ007	2 fixing for boiler	Basic pH 4
PDJ015	Stopcock for water still	Basic pH 4
PDJ022	Water softening cartridge	Basic pH 4
PDJ008	Boiler	Quartz
PDJ009	Cooling	Quartz
PDJ010	Level	Quartz
PDJ011	Quartz resistance	Quartz
PDJ012	Flow limiter	Quartz and series 4000

PGB - Water Still

Model RS 100-PRO

1| Large LCD screen with continuous digital monitoring. Temperature control with adjustable safety circuit.
2| Patented refrigerant (condensing surface 1500 cm²). Motorised lift with quick-action system with adjustable end-position recognition. Patented pressure spring resulting in a perfectly sealed system.
3| Double PTFE coating resistant to chemicals. Borosilicate glass set (included). 1 L evaporation flask. USB connection for PC control.

Code	PGB006	PGB007
Model	Borosilicate	Coated, borosilicate
Bath capacity	5 L (for water or oil)	
Rotary speed	20-280 rpm (reversible rotation)	
Maximum bath temperature	180 °C (± 1)	
Timer slot	1 a 999 min motorized	
Spindle travel	150 mm	
Power	1400 W	
Dimensions [LxAxH]	465x457x583 mm	
Power	220-240V, 50/60Hz	
Protection class (DIN EN60529)	IP20	

Accessories for model RS 100-PRO

Receiving flask, joint 35/20

Code	Cap.
PGG024	*100 mL*
PGG025	*250 mL*
PGG026	*500 mL*
PGG027	*1000 mL*
PGG028	*2000 mL*

Connector for evaration flask

Code	Joint
PGG016	*29-32 / 24-29*
PGG017	*29-32 / 19-26*
PGG018	*29-32 / 14-23*

Complete glassware vertical

Code
PGG014
*PGG015**

** coated*

Foam brake piece, 250 mL

Code	Joint
PGG019	*29/32*

Seal plug for rotary evaporator

Code	
Code	*PGG022*

Seal R-Type PTFE

Code	
Code	*PGG021*

Vapor tube piece

Code	Joint
PGG020	*29/32*

PGB - Water Still

Model RS 100-S

RS Lab

1| PID control ensures high temperature accuracy (±1ºC with water).
2| Protection against overheating at 220ºC.
3| Automatic shutdown if heating occurs without water/oil.
4| Drying process can be performed by setting a time interval, either clockwise or counter-clockwise.
5| Adjustable immersion angle.
6| Remote function offering the possibility of PC control and data transmission.

Code	PGB009
Model	RS100-S
Speed range	20-200 rpm
Display	LED (speed, temperature, time)
Warm-up temperature range	Room temperature -180ºC
Accuracy of temperature control	Water: ±1ºC Oil: ±3ºC
Lift movement	Manual 110 mm + auxiliary 100 mm
Protection class	IP20
USB Interface	Yes
Dimensions (L x A x H)	440x320x450 mm mm
Weight	7 kg

PJB - Filtration units/Manifolds

FOR 47 MM MEMBRANE

1/ Filtration equipment with ground joints

ENDO glassware

Code	PJB001
Composed of	
PJD002	Glass funnel, 300 mL
PJD003	Glass base with porous plate
PBH030	Erlenmeyer flask cone 40/35, 1000 mL
PJD006	Holding clamp, anodized aluminum

Accessories for EndoGlassware filtration assembly

300 mL glass funnel
Code *PJD002*

Glass base with porous plate 40 mm
Code *PJD003*

Holding clamp, anodized aluminium
Code *PJD006*

Erlenmeyer flask cone 40/35, 1000 mL
Code *PBH030*

PJB - Filtration units/Manifolds

2/ Filtration equipment with ground joints

1| Glass pieces are made of borosilicate glass and present 40/35 ground joints while the clamp is made of anodized aluminium.
2| Vacuum connection integrated into the fritted glass support, and the flask mouth are over the filtered liquid exit, thus avoiding leaking of the filtered liquid into the vacuum tube.

Code	PJB006	PJB008
Description	Complete filtration assembly, 300 mL	
Composed of		
	PBH038 Erlenmeyer flask with 40/35 male ground joint, 1000 mL *(for code PJB006)*	
	PJD017 Porous ground glass base and vacuum outle	
	PJD016 Glass funnel , 300 ml	
	PJD020 Spring clamp, anodized aluminium	

3/ Filtration equipment with rubber stopper

1| Glass pieces are made of borosilicate glass and the clamp is made of anodized aluminium.
2| Vacuum connection in the filtering flask.

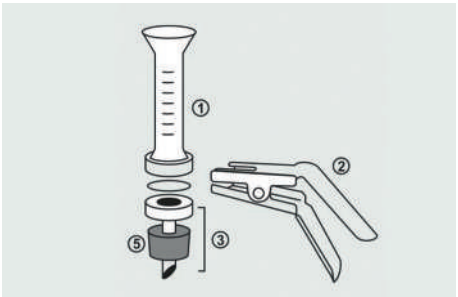
Code	PJB007
Description	Complete filtration assembly, 300 mL
Composed of	
PJH023	Kitasatos flask 1000 mL
PJD018	Glass porous base with stopper
PJD016	300 mL glass funnel
PJD020	Spring clamp, anodized aluminum
PJD005	Silicon stopper, 1 hole

FOR 25 MM MEMBRANE

1/ Filtration assembly with silicon stopper

1| Glass pieces are made of borosilicate glass and the clamp is made of anodized aluminium.
2| Vacuum connection in the filtering flask.

Code	PJB015
Description	Complete filtration assembly, 15 mL
Composed of	
(3) PJD024	Body with porous plate and silicone stopper
(1) PJD031	Glass funnel, 15 mL
(5) PJD025	Perforated silicone stopper 1 holder
(1) PJD021	Anodized aluminium clamp



1| Glass pieces are made of borosilicate glass and the clamp is made of anodized aluminium.
2| Vacuum connection in the filtering flask.

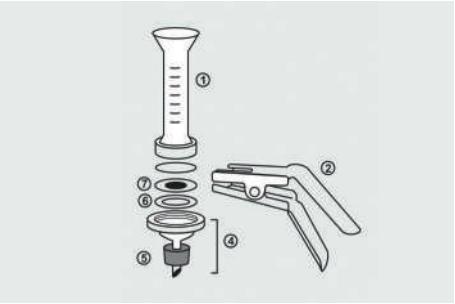
Code	PJB017
Description	Complete filtration assembly, 15 mL
Composed of	
(3) PJD024	Body with porous plate and silicone stopper
(1) PJD031	Glass funnel, 15 mL
(5) PJD025	Perforated silicone stopper 1 holder
(2) PJD021	Anodized aluminium clamp
PJH026	Kitasato flask 125 mL

PJB - Filtration units/Manifolds

FOR 25 MM MEMBRANE

2/ Filter holder with stainless steel grid

1 | Filter holder in borosilicate glass 3.3. Kitasato flask not included.
2 | Graduated filtration funnel



Code	PJB016
Description	Borosilicate glass filtration equipment, stainless steel.
Composed of	
(1) PJD031	Filtration funnel, 15 mL
(4) PJD040	Base stopper and stainless steel screen for filter holder 25 mm
(6) PJD041	Gasket teflon for filter holder 25 mm
(7) PJD042	Support screen, 25mm, stainless
(5) PJD025	Silicon stopper, 1 hol
(2) PJD021	Anodized aluminium clamp

Glass filter holder for 90 mm

1 | Glass filter holder for 90mm with stainless steel mesh.

Code	PJB024
Composed of	
PJD048	Glass Funnel 1L
PJD026	90 mm diameter glass base
PJD022	Aluminum clamp for 90 mm funnels
PJD027	Blue stainless steel grid, for filter support.
PJD028	PTFE gaskets

GLASSCO FILTRATION EQUIPMENT ACCESSORIES

Aluminium spring clamp

Code	Dimensions
PJD020	*47 mm*
PJD021	*25 mm*
PJD022	*90 mm*

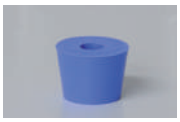
Porous ground glass base

Code	Dimensions
PJD017	*47 mm*
*PJD026**	*90 mm*

** with grid*

Glass funnel

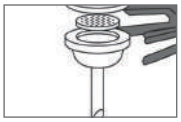
Code	Dimensions
PJD016	*47 mm*
PJD031	*25 mm*
PJD048	*90 mm*



Perforated silicone stopper

Code	Dimensions
PJD025	*25 mm*
PJD047	*47 mm*
*PJD040**	*25 mm*

** with grid*



Stainlees support screen

Code	Dimensions
*PJD027**	*90 mm*
PJD030	*47 mm*
PJD042	*25 mm*

** coated with PTFE*

PTFE gasket

Code	Dimensions
PJD028	*90 mm*
PJD029	*47 mm*
PJD041	*25 mm*

Glass porous base with stopper

Code	Dimensions
PJD024	*25 mm*
PJD018	*47 mm*

PJB - Filtration units/Manifolds

Vacuum manifold kit glass 1 position

1| Made of stainless steel, allowing for sterilization by autoclave (121ºC) or dry heat.
2| Control keys or valves at each station to work independently.

Code	PJB009
Description	Vacuum manifold kit glass 1 position, 300 mL
Composed of	
PJB002	Vacuum manifold 1 places
PJD001	Glass filter holder, 300 mL

Vacuum manifold kit glass 3 positions

Code	PJB011
Description	Vacuum manifold kit glass 3 positions, 300 mL
Composed of	
PJB003	Vacuum manifold 3 places
3xPJD001	Glass filter holder, 300 mL

Vacuum manifold kit glass 6 positions

Code	PJB013
Description	Vacuum manifold 6 places
Composed of	
PJB004	Rampa de filtración 6 posiciones
6xPJD001	Glass filter holder, 300 mL

Accessories filtration system kit

Code	Description
PJD001	Glass filter holder, 300 mL
Composed of:	
	Filtering funnel, 300 mL (ref. PJD016)
	Glass base with porous plate, 47 mm (ref. PJD018)
	Silicone plug nº8, 1 hole (PJD047)
	Clamp, 47mm, anodized aluminum (ref. PJD020)

It is possible to use this item to connect it to a filtration ramp, for which you will need the steel connector ref.: PJD007

PJB - Filtration units/Manifolds

Vacuum manifold kit inox 1 position

1| Filtration kit consisting of a one-position ramp, a 300 or 500 mL funnel, an adapter with a valve, and a filter holder for 47mm membranes, all made of 316 stainless steel. Includes filters. Funnel without internal graduations.

Code	Description
PJB018	Vacuum manifold kit 1 position, 300 mL
PJB021	Vacuum manifold kit 1 position, 500 mL

Vacuum manifold kit inox 3 positions

1| Filtration kit consisting of a one-position ramp, a 300 or 500 mL funnel, an adapter with a valve, and a filter holder for 47mm membranes, all made of 316 stainless steel. Includes filters. Funnel without internal graduations.

Code	Description
PJB019	Vacuum manifold kit 3 positions, 300 mL
PJB022	Vacuum manifold kit 3 positions, 500 mL

Vacuum manifold kit inox 6 positions

1| Filtration kit consisting of a one-position ramp, a 300 or 500 mL funnel, an adapter with a valve, and a filter holder for 47mm membranes, all made of 316 stainless steel. Includes filters. Funnel without internal graduations.

Code	Description
PJB020	Vacuum manifold kit 6 positions, 300 mL
PJB023	Vacuum manifold kit 6 positions, 300 mL

PJB - Filtration units/Manifolds

Sterile vacuum filtratioN UNITS

1| DNase, RNase and pyrogen free.Sterilised by gamma radiation. Packed in easy-open plastic bags. Reception bottle cap is individually wrapped.
2| Funnel and bottle with graduation. Tubes of different diameters can be attached to the vacuum connector.

Code	Volume	Filtre material	Pore	Packaging
PJB025	250 mL	PES	0,22 µm	12 pcs/bag
PJB026	250 mL	PES	0,45 µm	12 pcs/bag
PJB027	500 mL	PES	0,22 µm	12 pcs/bag
PJB028	500 mL	PES	0,45 µm	12 pcs/bag
PJB029	1000 mL	PES	0,22 µm	12 pcs/bag
PJB030	1000 mL	PES	0,45 µm	12 pcs/bag
PJB031	250 mL	PVDF	0,22 µm	12 pcs/bag
PJB032	250 mL	PVDF	0,45 µm	12 pcs/bag
PJB033	500 mL	PVDF	0,22 µm	12 pcs/bag
PJB034	500 mL	PVDF	0,45 µm	12 pcs/bag
PJB035	1000 mL	PVDF	0,22 µm	12 pcs/bag
PJB036	1000 mL	PVDF	0,45 µm	12 pcs/bag
PJB037*	250 mL	PES	0,22 µm	24 pcs/bag
PJB038*	250 mL	PES	0,45 µm	24 pcs/bag
PJB039*	250 mL	PVDF	0,22 µm	24 pcs/bag
PJB040*	250 mL	PVDF	0,45 µm	24 pcs/bag

PJH - Filtering flasks

Glass

1| With approximate volume graduation. Borosilicate glass. Thick wall.

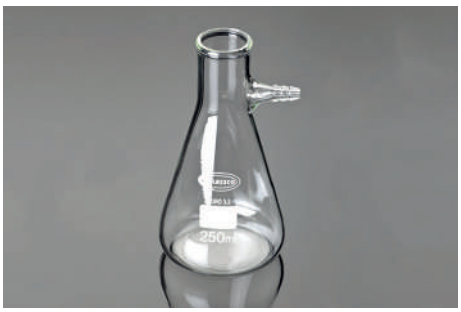
Code	Capacity	Ø Aprox.	Ø Olive
PJH001	250 mL	30 mm	12 mm
PJH002	500 mL	29 mm	12 mm
PJH003	1000 mL	39 mm	16 mm
PJH004	2000 mL	40 mm	16 mm

PJH - Filtering flasks

Glass

Code	Capacity	Ø base	Ø Neck (int)	Ø olive
PJH005	100 mL	70 mm	24 mm	11 mm
PJH006	250 mL	85 mm	35 mm	11 mm
PJH007	500 mL	105 mm	35 mm	11 mm
PJH008	1000 mL	135 mm	45 mm	11 mm
PJH009	2000 mL	165 mm	60 mm	11 mm

Made of glass, for filtration



Code	Capacity
PJH025	100 mL
PJH026	125 mL
PJH034	250 mL
PJH035	500 mL
PJH023	1000 mL
PJH029	2000 mL
PJH036	5000 mL

Filtering flask with plastic side hose connector

1| Borosilicate glass.
2| Thick wall. Polypropylene pipe and olive.

Code	Cap.	Ø base	Ø Neck (int.)	Ø olive
PJH014*	250 mL	85 mm	35 mm	145 mm
PJH015	500 mL	105 mm	35 mm	175 mm
PJH016	1000 mL	135 mm	45 mm	230 mm
PJH017	2000 mL	165 mm	60 mm	255 mm

PJH - Filtering flasks

Flask filtering glass

Code	Capacity	Ø base	Ø Neck (int)	Ø olive
PJH010	3000 mL	170 mm	70 mm	11 mm
PJH011	5000 mL	185 mm	80 mm	11 mm
PJH012	10000 mL	240 mm	80 mm	11 mm

Filtering flask with plastic side hose connector

Code	Cap.	Ø base	Ø Neck (int.)	Ø olive
PJH018	3000 mL	170 mm	70 mm	295 mm
PJH019	5000 mL	185 mm	80 mm	360 mm
PJH020	10000 mL	240 mm	80 mm	420 mm

PKB - Chromatography columns

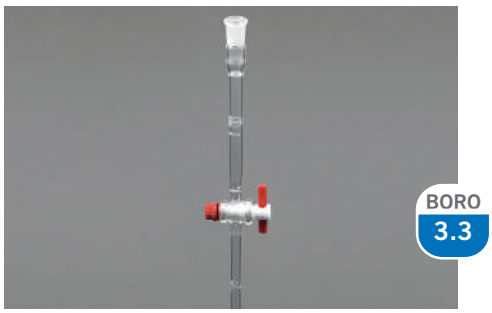
Glass chromatography column

1| PTFE needle stopcock.

Code	Dimensions	Frosted
PKB001	10x200mm	14/23
PKB002	10x300mm	14/23
PKB003	20x200mm	19/26
PKB004	20x400mm	19/26
PKB005	30x400mm	29/32
PKB006	30x500mm	29/32

PKB - Chromatography columns

Glass chromatography column



1| PTFE stopcock.

Code	Dimensions	Frosted
PKB007	10x100mm	14/23
PKB008	10x200mm	14/23
PKB009	15x200mm	14/23
PKB010	10x300mm	14/23
PKB011	20x400mm	29/32
PKB012	30x600mm	29/32

PKC - Chromatography paper

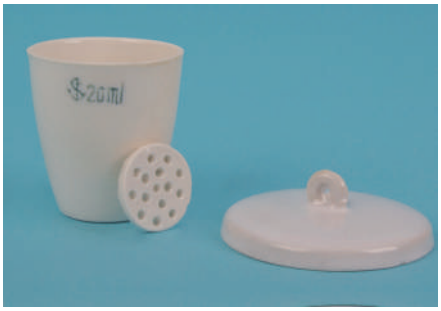
Code	Dimensions	Box of
PKC001	100x300 mm	100 sheets
PKC006	140x60 mm	100 sheets
PKC003	200x200 mm	100 sheets
PKC004	250x250 mm	100 sheets
PKC010	285X250 mm	25 sheets
PKC007	460x570 mm	100 sheets
PKC008	580x600 mm	100 sheets
PKC009	580x600 mm	25 sheets

PKD - Chamber for chromatography

Code	Dimensions
PKD001	100x100 mm

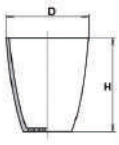
PLB - Gooch

Gooch crucible



Dimensions

d: diametre.
h: height.



1| Enamelled except for the rim and base. With a perforated disc and an enamelled lid with a handle.

Code	Capacity	Diameter	Height	Pack
PLB001	15 mL	32 mm	34 mm	**10**
PLB002	20 mL	36 mm	38 mm	**10**
PLB003	30 mL	40 mm	46 mm	**10**

1| With perforated disc; without cover. Glazed except for the edge and base.

Code	Capacity	Diameter	Height
PLB004	17 mL	30 mm	36 mm
PLB005	25 mL	35 mm	43 mm
PLB006	35 mL	39 mm	49 mm
PLB007	120 mL	60 mm	71 mm

PLG - With porous plates

Glass

Code	Porosity	Capacity
PLG028	G2 (40~100 µm)	50 mL
PLG029	G3 (16~40 µm)	30 mL
PLG030	G1 (100~160 µm)	30 mL
PLG031	G4 (100~160 µm)	30 mL
PLG032	G4 (100~160 µm)	50 mL

PLG - With porous plates

Filter crucible

1| Poreus bottom; no lid. Glazed except for the edge and base.

Code	Porosity	Capacity
PLG001	6 µm	8 mL
PLG004	6 µm	15 mL
PLG007	6 µm	25 mL
PLG010	6 µm	35 mL
PLG013	6 µm	50 mL
PLG002	7 µm	8 mL
PLG005	7 µm	15 mL
PLG008	7 µm	25 mL
PLG011	7 µm	35 mL
PLG014	7 µm	50 mL
PLG003	8 µm	8 mL
PLG006	8 µm	15 mL
PLG009	8 µm	25 mL
PLG012	8 µm	35 mL
PLG015	8 µm	50 mL

PNB - Short stem, glass

Short stem funnel, glass

BORO 3.3

1| For liquid transfer or solution filtration. 60º cone angle and borosilicate

Code	Diameter	Cap.	Ø stem	Ø filter
PNB001	40 mm	10 mL	4 mm	50-60 mm
PNB002	50 mm	30 mL	7 mm	50-60 mm
PNB003	75 mm	100 mL	9 mm	90-110 mm
PNB004	90 mm	150 mL	10 mm	110-125 mm
PNB005	100 mm	200 mL	11 mm	110-125 mm
PNB006	120 mm	400 mL	12 mm	125-150 mm
PNB007	150 mm	750 mL	15 mm	150-180 mm

PNB - Short stem, glass

Short stem funnel, glass

BORO 3.3

DIN 4798

1| According to ASTM E438 Type 1 Class A. Complies with USP standards. 60º cone angle.

Code	Diameter	Capacity
PNB008	35 mm	8 mL
PNB009	45 mm	15 mL
PNB010	55 mm	30 mL
PNB011	75 mm	95 mL
PNB012	85 mm	140 mL
PNB013	100 mm	190 mL
PNB014	125 mm	400 mL
PNB015	150 mm	750 mL

Short stem, glass

Code	Cone angle	Diameter
PNB019	60º	55 mm
PNB020	60º	75 mm
PNB021	60º	100 mm
PNB023	60º	125 mm
PNB024	60º	150 mm
PNB025	60º	200 mm
PNB026	60º	230 mm
PNB017	60º	250 mm
PNB018	60º	300 mm

PNC - Short stem, plastic

APTO

AUTO +121º

1| Made of autoclavable polypropylene (PP). 60º cone angle and grooved external surface.

Code	Diameter	Stem (Lx Ø)
PNC001	50 mm	50x7 mm
PNC002	75 mm	75x9 mm
PNC003	100 mm	95x9 mm
PNC004	150 mm	110x16 mm
PNC014*	100 mm	-

** of Teflon*

PNC - Short stem, plastic

APTO

AUTO +121º

1| Made of autoclavable polypropylene (PP). 60º cone angle and grooved external surface.

Code	Diameter	Stem (Lx Ø)	Cap.	Pack
PNC005	27 mm	37 x 4 mm	3.5 mL	**20**
PNC006	37 mm	37 x 5 mm	10 mL	**20**
PNC007	46 mm	43 x 5 mm	20 mL	**20**
PNC008	66 mm	62 x 10 mm	50 mL	**20**
PNC009	81 mm	70 x 11 mm	100 mL	**20**
PNC010	100 mm	82 x 11 mm	200 mL	**10**
PNC011	120 mm	86 x 11 mm	350 mL	**10**
PNC012	150 mm	115 x 14 mm	700 mL	**5**
PNC013	183 mm	140 x 14 mm	1250 mL	**5**

APTO

1| Transparent. Polypropynele. Rapid flow due to a steep 60° angle. Practical handle with loop for hanging.

Code	Volume	Dimensions	Inner stem Ø	Stem length
PNC501	5 mL	Ø 30 x45 mm	2 mm	3.5 mL
PNC502	6 mL	Ø 30 x 47 mm	4 mm	10 mL
PNC503	14 mL	Ø 40 x 65mm	4 mm	20 mL
PNC504	32 mL	Ø 50 x 85mm	7 mm	50 mL
PNC505	88 mL	Ø 75 x108mm	7 mm	100 mL
PNC506	222 mL	Ø 100 x 155 mm	8 mm	200 mL
PNC507	342 mL	Ø 122 x 180mm	11 mm	350 mL
PNC508	817 mL	Ø 150 x 220mm	15 mm	700 mL

PND - Long stem

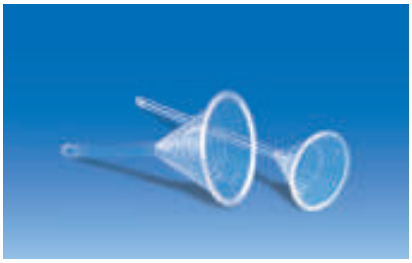
APTO

AUTO +121º

1| Made of polypropylene (PP). 60º cone angle and grooved external surface.

Code	Diameter	Stem (Lx Ø)	Cap.
PND001	65 mm	150 x 8 mm	50 mL
PND002	104 mm	145 x 8 mm	225 mL
PND003	79 mm	143 x 8 mm	100 mL

PND - Long stem



VITLAB

1| Crystal clear. The spiral-shaped ribs increase the rate of filtration and prevent the trapping of air between the filter paper and the funnel.

Code	Volume	Dimensions	Ø Stem	Stem length
PND501	80 mL	Ø 70 x 210 mm	3 mm	150 mm
PND502	250 mL	Ø 100 x 198 mm	7 mm	108 mm
PND503	630 mL	Ø 140 x 247mm	10 mm	132 mm
PND504	1800 mL	Ø 196 x315 mm	20 mm	155 mm

PNF - Buchner, porcelain

Nahita

1| Used in vacuum filtration processes. With perforated plate to support the filter paper. Enameled.

Code	Cap.	Height total	Ø int.	Ø medium
PNF001	30 mL	70 mm	40 mm	13 mm
PNF002	50 mL	80 mm	50 mm	15 mm
PNF003	120 mL	125 mm	70 mm	20 mm
PNF004	200 mL	145 mm	95 mm	21 mm
PNF005	400 mL	165 mm	110 mm	26 mm
PNF006	600 mL	170 mm	125 mm	30 mm
PNF007	1000 mL	195 mm	135 mm	33 mm

JIPo

Code	Ø inner	Stem height	Capacity
PNF008	48 mm	43 mm	35 mL
PNF009	62 mm	64 mm	70 mL
PNF010	77 mm	64 mm	120 mL
PNF011	97 mm	71 mm	240 mL
PNF012	116 mm	83 mm	400 mL
PNF013	130 mm	85 mm	600 mL
PNF014	156 mm	96 mm	1000 mL
PNF015	192 mm	117 mm	2000 mL
PNF016	248 mm	117 mm	4000 mL
PNF017	296 mm	130 mm	7000 mL
PNF018	334 mm	133 mm	10000 mL

PNG - Buchner, glass

With filter plate

GLASSCO

BORO 3.3

1| With G0 to G4 porosity filter plate. According to ASTM E438 Type 1 Class A. For other volumes and/or porosity, please consult.

Code	Cap.	Ø plate	Porosity
PNG004	35 mL	30 mm	G0 (150-200 µm)
PNG024	35 mL	30 mm	G1 (90-150 µm)
PNG006	35 mL	30 mm	G2 (40-90 µm)
PNG007	35 mL	30 mm	G3 (15-40 µm)
PNG026	35 mL	30 mm	G4 (5-15 µm)
PNG009	80 mL	40 mm	G0 (150-200 µm)
PNG028	80 mL	40 mm	G1 (90-150 µm)
PNG029	80 mL	40 mm	G2 (40-90 µm)
PNG030	80 mL	40 mm	G3 (15-40 µm)
PNG031	80 mL	40 mm	G4 (5-15 µm)
PNG014	200 mL	65 mm	G0 (150-200 µm)
PNG032	200 mL	65 mm	G1 (90-150 µm)
PNG033	200 mL	65 mm	G2 (40-90 µm)
PNG034	200 mL	65 mm	G3 (15-40 µm)
PNG018	200 mL	65 mm	G4 (5-15 µm)
PNG019	500 mL	90 mm	G0 (150-200 µm)
PNG037	500 mL	90 mm	G1 (90-150 µm)
PNG038	500 mL	90 mm	G2 (40-90 µm
PNG039	500 mL	90 mm	G3 (15-40 µm)
PNG023	500 mL	90 mm	G4 (5-15 µm)
PNG040	1000 mL	120 mm	G0 (150-200 µm)
PNG041	1000 mL	120 mm	G1 (90-150 µm)
PNG042	1000 mL	120 mm	G2 (40-90 µm)
PNG043	1000 mL	120 mm	G3 (15-40 µm)
PNG044	1000 mL	120 mm	G4 (5-15 µm)

PNH - Büchner, plastic

Büchner, plastic

Kartell

AUTO +121°

APTO

1| Made of polypropylene.

Code	Cap. mm	Ø filtre mm	Ø holes mm	Stem length
PNH001	40	42.5	1.2	47
PNH002	70	55	1.1	57
PNH003	180	70	2	57
PNH004	285	80	2	65
PNH005	390	90	2.5	68
PNH006	810	110	2.5	92
PNH007	2100	160	2.8	105
PNH008	6000	240	3	143

PNJ - Buchner, Guko adapters

Set 7 rubber cones for filtration

Code	Description
PNJ001	Set of 7 adapters made of rubber

Code	Description
PNJ002	Set of 7 adapters made of neoprene

1| Made of red natural rubber.

Code	Size	larger Ø (ext.)	larger Ø (int.)	Height	Thickness
PNJ003	1	37 mm	23 mm	26 mm	3 mm
PNJ004	2	45 mm	30 mm	33 mm	3 mm
PNJ005	3	55 mm	45 mm	40 mm	4 mm

Set 7 rubber cones for filtration

Code	Description
PNJ006	Set 7 rubber cones for filtration
PNJ007	Set 7 silicone cones for filtration

PNL - For powder

Code	Diameter	Height	Ø Stem
PNL008	80 mm	75 mm	25 mm
PNL009	100 mm	95 mm	25 mm
PNL010	120 mm	110 mm	30 mm
PNL011	160 mm	137 mm	35 mm

1| Made of polypropylene. Autoclavables.
2| Can also be used for large volumes of liquids.
3| 60º cone angle and grooved external surface. Excellent chemical resistance..

Code	Diameter	Stem (LxØ)	Capacity
PNL001	60 mm	18.00 x 15 mm	45 mL
PNL002	80 mm	22.20 x 15 mm	94 mL
PNL003	100 mm	24.80 x 25 mm	200 mL
PNL004	120 mm	27.10 x 30 mm	360 mL
PNL005	150 mm	39.90 x 36 mm	730 mL
PNL006	180 mm	48.80 x 43 mm	1290 mL

1| Transparent polypropylene.

Code	Dimensions	Inner stem	Stem length
PNL501	Ø 150 x 138 mm	28 mm	22 mm
PNL502	Ø 120 x105 mm	27 mm	22 mm
PNL503	Ø 100 x 92mm	24 mm	23 mm
PNL504	Ø 65 x70 mm	15 mm	26 mm
PNL505	Ø 80 x75 mm	21 mm	26 mm

PNM - For liquid transfer, plastic

For liquid transfer

Kartell

1| Made of high density polyethylene. With edge to avoid spills. With eyelet to hang them and a ribbed outer surface.

Code	Diameter	Cap.	Stem (LxØ)
PNM001	80 mm	100 mL	27 x 13 mm
PNM002	110 mm	300 mL	38 x 15 mm
PNM003	130mm	450 mL	43 x 20 mm
PNM004	140 mm	750 mL	52 x 24 mm
PNM005	180 mm	1500 mL	68,5 x 30 mm
PNM006	220 mm	2750 mL	81 x 35 mm
PNM007	260 mm	4000 mL	75 x 38 mm
PNM008	310 mm	5500 mL	80 x 43 mm
PNM009	420 mm	10000 mL	138 x 57 mm

ENDO plasticware

1| Made of high density polyethylene.

Code	Diameter	Stem (LxØ)	Capacity
PNM010	80 mm	30 x 13 mm	100 mL
PNM011	110 mm	38 x 15 mm	300 mL
PNM012	130 mm	43 x 20 mm	450 mL
PNM013	140 mm	52 x 24 mm	750 mL
PNM014	180 mm	69 x 30 mm	1500 mL
PNM015	220 mm	81 x 35 mm	1750 mL
PNM016	260 mm	75 x 38 mm	4000 mL
PNM017	310 mm	80 x 43 mm	5500 mL
PNM018	400 mm	130 x 45 mm	10.000 mL

Large Funnels

VITLAB

1| Made of high density polyethylene.

Code	Diameter	Lenght	Stem Ø
PNM501	200 mm	200 mm	22 mm
PNM502	250 mm	260 mm	30 mm
PNM503	350 mm	440 mm	35 mm
PNM504	400 mm	365 mm	42 mm
PNM505	430 mm	420 mm	37 mm

PNN - For transfer, stainless steel

Funnel with handle

AGENCINOX

1| Laminated outer rim ensures greater strength and prevents deformation. Interior with fixed filter, handle for better grip and suspension.
2| It is narrow and can be used in bottles.

Code	Capacity	Diameter
PNN001	0,5 mL	150 mm
PNN002	1 mL	200 mm
PNN003	3 mL	250 mm

Funnel with handle, stainless stee AISI 316

ENDO metalware

Code	Ø inner	Ø outer	Height	Stem (LxØ)
PNN004	77 mm	82 mm	110 mm	60x8 mm
PNN005	95 mm	100 mm	120 mm	60x8 mm
PNN006	118 mm	125 mm	150 mm	70x12 mm
PNN007	150 mm	167 mm	180 mm	90x15 mm
PNN008	200 mm	215 mm	225 mm	100x20 mm

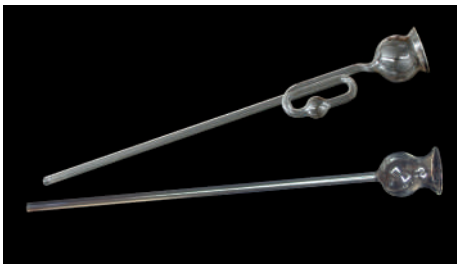
Funnel with handle, stainless stee AISI 304

ENDO metalware

Code	Ø inner	Ø outer	Height	Stem (LxØ)
PNN009	77 mm	82 mm	110 mm	60x8 mm
PNN010	95 mm	100 mm	120 mm	60x8 mm
PNN011	118 mm	125 mm	150 mm	70x12 mm
PNN012	150 mm	167 mm	180 mm	90x15 mm
PNN013	200 mm	215 mm	225 mm	100x20 mm

PNZ - Others

Thistle funnel



1| They can be inserted into small plug holes.
2| Facilitates the addition of liquids to closed flasks. Avoids loss of gases generated in certain reactions.

Code	Type of stem	Lenght	Ø cup	Ø stem
PNZ002	Thistle	300 mm	40 mm	8 mm
PNZ001	With 1 bulb	300 mm	40 mm	8 mm

Half-round funnel

1| Special standard joint funnels for use on multi-neck flasks and labware.
2| Made of transparent polypropylene.

Code	NS	Lenght
PNZ501	14/23	80 mm
PNZ502	19/26	100 mm
PNZ503	29/32	140 mm

PQB - Squibb

Separation funnel ground

1| Frosted mouth and polypropylene cap.

Code	Capacity	Frosted
PQB001	50 mL	19/26
PQB002	100 mL	19/26
PQB003	125 mL	19/26
PQB005	250 mL	19/26
PQB006	250 ml	24/29
PQB004	250 ml	29/32
PQB008	500 mL	24/29
PQB007	500 mL	29/32
PQB009	1000 mL	29/32
PQB010	2000 mL	29/32

PQB - Squibb

Separation funnel ground

1| Frosted mouth and polypropylene cap.

Code	Capacity	Frosted	Nº Key
PQB011	100 mL	19/26	2,5 mm
PQB012	250 mL	29/32	4 mm
PQB013	500 mL	29/32	4 mm
PQB014	1000 mL	29/32	6 mm
PQB015	2000 mL	29/32	6 mm

Separating funnel, Squibb

Code	Capacity	Frosted	Nº Key
PQB016	50 mL	19/26	2,5 mm
PQB017	100 mL	19/26	2,5 mm
PQB018	250 mL	29/32	4 mm
PQB019	500 mL	29/32	4 mm
PQB020	1000 mL	29/32	6 mm
PQB036	2000 mL	29/32	6 mm
With graduation			
PQB038	500 mL	29/32	4 mm

Separating funnel, Squibb

Code	Capacity	Frosted	Nº Key
PQB021	50 mL	19/26	2,5 mm
PQB022	100 mL	19/26	2,5 mm
PQB023	250 mL	29/32	4 mm
PQB024	500 mL	29/32	4 mm
PQB025	1000 mL	29/32	6 mm
PQB026	2000 mL	29/32	6 mm

PQB - Squibb

Plastic

Kartell

1| Transparent polymethylpentane (PMP) funnel, with embossed graduation. Autoclavable. Excellent chemical resistance.
2| Screw cap with standardized outlet with 29/32 cap. PMP stopcock with valve and nylon connectors.

Code	Capacity	Grad. (mL)	Up to(mL)
PQB029	500	2	20
		5	50
		25	500

PQD - Gilson

Gilson, funnel

GLASSCO

1| Polypropylene cap

Code	Capacity	Frosted
PQD019	100 mL	19/26
PQD020	250 mL	29/32
PQD021	500 mL	29/32
PQD022	1000 mL	29/32
PQD023	2000 mL	29/32

GLASSCO

1| Polypropylene cap.

Code	Cap.	SJ	Nº Key
PQD024	50 mL	19/26	2,5 mm
PQD025	100 mL	19/26	2,5 mm
PQD026	250 mL	29/32	4 mm
PQD027	500 mL	29/32	4 mm
PQD028	1000 mL	29/32	6 mm
PQD029	2000 mL	29/32	6 mm

PQD - Gilson

Separating funnel Gilson

ENDO glassware

Code	Diameter	Frosted
PQD001	50 mL	19/26
PQD002	100 mL	19/26
PQD003	125 mL	19/26
PQD004	250 mL	19/26
PQD005	250 mL	24/29
PQD006	250 mL	29/32
PQD007	500 mL	24/29
PQD008	1000 mL	29/32

PQG - Brome

Separatory funnel spherical, glass stopcock

GLASSCO

1| Polypropylene cap

Code	Capacity	Frosted
PQG007	100 mL	19/26
PQG009	250 mL	29/32
PQG012	500 mL	29/32
PQG011	2000 mL	29/32

Globe shape separating funnel

GLASSCO

1| Polypropylene cap.

Code	Capacity	Frosted	Nº Key
PQG013	50 mL	19/26	2,5 mm
PQG014	100 mL	19/26	2,5 mm
PQG015	250 mL	29/32	4 mm
PQG016	500 mL	29/32	4 mm

PQL - Cylindrical

PTFE Stop cock

1| Teflon Key.

Code	Capacity	Frosted	Graduación
PQL002	250 mL	29/32	Yes

Cylindrical funnel, glass

1| Please request other capacities.

Code	Cap.	SJ	Nº Key
PQL003	50 mL	14/23	25
PQL004	250 mL	19/26	4

Key PTFE

1| Teflon Key.

Code	Diameter	Frosted	Nº Key
PQL005	250 mL	19/26	4

PQN - Pressure equalizing funnels

Pressure equalizing funnel with PTFE key

1| Manufactured from chemically resistant borosilicate glass 3.3. Equipped with a straight PTFE key and PE stopper. White screen printing. Ground glass at the outlet.

Code	Diameter	Frosted	Key
PQN007	100 mL	14/23	Teflon
PQN009	250 mL	29/32	Teflon

PSB- Standard

FILTRES RS

1| Application in pharmaceutical and agro-food industries, health, education and research.

Flat

Code	Ø	Pack
PSB001	55 mm	100
PSB002	70 mm	100
PSB003	90 mm	100
PSB004	100 mm	100
PSB005	130 mm	100
PSB006	150 mm	100
PSB007	185 mm	100
PSB008	190 mm	100
PSB009	250 mm	100
PSB010	330 mm	100

Folded

Code	Ø	Pack
PSB014	70 mm	100
PSB015	100 mm	100
PSB016	130 mm	100
PSB017	150 mm	100
PSB018	190 mm	100
PSB019	250 mm	100
PSB020	330 mm	100
PSB021	400 mm	100
PSB023	500 mm	100
PSB024	650 mm	100

Standard filter characteristics

Type	Weight (g/m^2)	Thickness (mm)	pH	Humidity %	Dry resistance (kg)		Wet resistance(kg)		Porosity (μm)
					Longitudinal	Through	Longitudinal	Through	
Standard	77	0.16/0.18	7	6.8 ± 0.2	3.5/4.0 > 3.5	1.3/1.4 > 2.2	> 0.8	> 0.5	8-11

PSC- Qualitative, very slow

FILTRES RS

1| Suitable for filtration of aqueous solutions and volatile liquids.

Flat

Code	Ø	Pack
PSC001	25 mm	100
PSC002	40 mm	100
PSC003	55 mm	100
PSC004	70 mm	100
PSC005	90 mm	100
PSC006	110 mm	100
PSC007	125 mm	100
PSC008	135 mm	100
PSC009	150 mm	100
PSC010	185 mm	100
PSC011	210 mm	100

Folded

Code	Ø	Pack
PSC022	90 mm	100
PSC023	110 mm	100
PSC024	125 mm	100
PSC025	135 mm	100
PSC026	150 mm	100
PSC027	185 mm	100
PSC028	210 mm	100
PSC029	240 mm	100
PSC030	270 mm	100
PSC031	320 mm	100
PSC032	385 mm	100

Filter FC29E characteristics

Type	Weight (g/m^2)	Thickness (mm)	Retention (μm)	Filtration speed (s)	Wet resistance
FC29E	160	0.35	3-4	-	Very good

PSD - Qualitative, slow

Filters FC22L

FILTRES RS

1| Slow filtering speed.
2| High retention dense texture. Suitable for vacuum filtration of injectable serum, etc.

Flat

Code	Ø	Pack
PSD005	90 mm	100
PSD006	110 mm	100
PSD007	125 mm	100
PSD008	135 mm	100
PSD009	150 mm	100
PSD010	185 mm	100
PSD011	210 mm	100

Folded

Code	Ø	Pack
PSD021	150 mm	100
PSD022	185 mm	100
PSD023	210 mm	100
PSD024	240 mm	100
PSD025	270 mm	100
PSD026	320 mm	100

Filter FC22L characteristics

Type	Weight (g/m²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC22L	100	0.2	2-3	-	0.50 Kg/cm

Filters FC49L

FILTRES RS

1| Slow filtering speed. 150 g/m² paper with high retention and good strength.
2| Suitable for biochemical and pharmaceutical industry.

Flat

Code	Ø	Pack
PSD032	25 mm	100
PSD033	40 mm	100
PSD034	55 mm	100
PSD035	110 mm	100
PSD036	125 mm	100
PSD039	185 mm	100

Folded

Code	Ø	Pack
PSD049	125 mm	100
PSD050	135 mm	100
PSD051	150 mm	100
PSD052	185 mm	100
PSD053	210 mm	100
PSD054	240 mm	100

Filter FC22L characteristics

Type	Weight (g/m²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC49L	150	0.4	2	180	Very good

PSF - Qualitative, medium

Filters FC28M

FILTRES RS

1| Average filtration rate. Very high resistance even wet. Suitable for filtering acid or alkaline solutions.

Flat

Code	Ø	Pack
PSF001	40 mm	100
PSF002	55 mm	100
PSF003	70 mm	100
PSF004	90 mm	100
PSF005	110 mm	100
PSF006	125 mm	100
PSF007	135 mm	100
PSF008	150 mm	100
PSF013	320 mm	100

Folded

Code	Ø	Pack
PSF019	110 mm	100
PSF020	125 mm	100
PSF021	135 mm	100
PSF022	150 mm	100
PSF023	185 mm	100
PSF024	210 mm	100
PSF025	240 mm	100
PSF029	450 mm	100

Filter FC28L characteristics

Type	Weight (g/m²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC28M	80	0.18	5	40	Very good

PSF - Cualitativo, medio

Filters FC20M

FILTRESRS

1| Average filtration rate. Good retention capacity.
2| For general applications and education.

Flat

Code	Ø	Pack
PSF034	70 mm	100
PSF035	90 mm	100
PSF036	110 mm	100
PSF037	125 mm	100
PSF038	135 mm	100
PSF039	150 mm	100
PSF047	500 mm	100

Folded

Code	Ø	Pack
PSF050	110 mm	100
PSF051	125 mm	100
PSF052	135 mm	100
PSF053	150 mm	100
PSF054	185 mm	100
PSF055	210 mm	100
PSF056	240 mm	100

Filter FC20M characteristics

Type	Weight (g/m²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC20M	77	0.13	5	40	Good

Filters FC75M

FILTRESRS

1| Average filtration rate. Very pure paper.
2| Most used type for qualitative analysis, phosphates, sugars, fertilizers.

Flat

Code	Ø	Pack
PSF034	70 mm	100
PSF035	90 mm	100
PSF036	110 mm	100
PSF037	125 mm	100
PSF038	135 mm	100
PSF039	150 mm	100
PSF047	500 mm	100

Folded

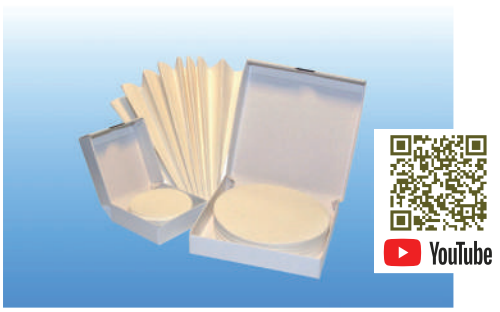
Code	Ø	Pack
PSF050	110 mm	100
PSF051	125 mm	100
PSF052	135 mm	100
PSF053	150 mm	100
PSF054	185 mm	100
PSF055	210 mm	100
PSF056	240 mm	100

Filter FC20M characteristics

Type	Weight (g/m²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC75M	75	0.16	6	50	Average

PSG - Qualitative, fast

Filters FC27E



FILTRESRS

1| Fast filtering speed. Extra soft thick paper.
2| Suitable for the filtration of oils, syrups and fatty substances.
3| Also used with Büchner funnels.

Flat

Code	Ø	Pack
PSG001	25 mm	100
PSG002	40 mm	100
PSG003	55 mm	100
PSG004	70 mm	100
PSG005	90 mm	100
PSG006	110 mm	100
PSG007	125 mm	100
PSG008	135 mm	100

Folded

Code	Ø	Pack
PSG019	90 mm	100
PSG020	110 mm	100
PSG021	125 mm	100
PSG022	135 mm	100
PSG023	150 mm	100
PSG024	185 mm	100
PSG025	210 mm	100
PSG026	240 mm	100

Filter FC27E characteristics

Type	Weight (g/m²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC27E	130	0.43	20	-	0.40 Kg/cm

PSG - Qualitative, fast

Filters FC26R

FILTRESRS

1| Fast filtering speed. Very pure paper. Used in the preparation and analysis of pharmaceutical and metallurgical products.

Flat

Code	Ø	Pack
PSG035	40 mm	100
PSG036	55 mm	100
PSG037	70 mm	100
PSG038	90 mm	100
PSG039	110 mm	100
PSG040	125 mm	100
PSG042	150 mm	100
PSG043	185 mm	100
PSG044	210 mm	100
PSG045	240 mm	100

Folded

Code	Ø	Pack
PSG056	150 mm	100
PSG057	185 mm	100
PSG058	210 mm	100
PSG059	240 mm	100
PSG060	270 mm	100
PSG061	320 mm	100
PSG062	385 mm	100
PSG063	450 mm	100
PSG064	500 mm	100

Filter characteristics FC26R

Type	Weight (g/m²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC26R	75	0.15	10	30	Aceptable

PSH - Qualitative, very fast

Filters FC75R

FILTRESRS

1| Very fast filtration speed. Very resistant crepe paper. For all types of very fast filtration.

Flat

Code	Ø	Pack
PSH028	25 mm	100
PSH001	40 mm	100
PSH002	55 mm	100
PSH003	70 mm	100
PSH004	90 mm	100
PSH005	110 mm	100
PSH006	125 mm	100
PSH007	135 mm	100
PSH008	150 mm	100
PSH009	185 mm	100
PSH010	210 mm	100
PSH011	240 mm	100

Folded

Code	Ø	Pack
PSH014	70 mm	100
PSH015	90 mm	100
PSH016	110 mm	100
PSH017	125 mm	100
PSH018	135 mm	100
PSH019	150 mm	100
PSH020	185 mm	100

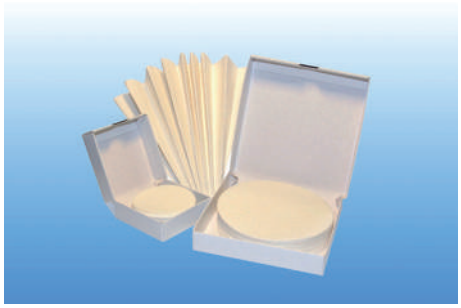
Characteristics of Filters FC75R

Type	Weight (g/m²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC75R	60	0.25	15	25	Good

PSK - Quantitative, slow

Filtros SCLO

FILTRES RS



1| Slow filtering speed. Dense texture. Suitable for the retention of fine precipitates.

Flat

Code	Ø	Pack
PSK008	125 mm	100
PSK009	135 mm	100
PSK010	150 mm	100
PSK011	185 mm	100
PSK012	210 mm	100

Folded

Code	Ø	Pack
PSK015	90 mm	100
PSK016	110 mm	100
PSK017	125 mm	100
PSK018	135 mm	100

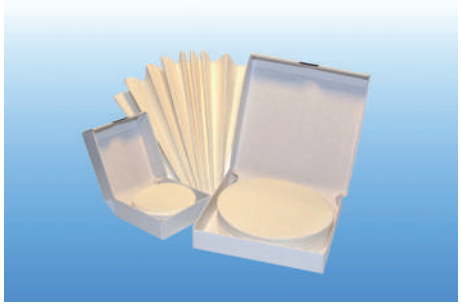
Filter SCLO characteristics

Type	Weight (g/m²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
SCLO	84	0.2	2-3	180	High

PSL- Quantitative, medium

Filtros SCSG

FILTRES RS



1| Average filtration rate. Medium texture. Fat-free, so it is used for the determination of fat in the food industry.

Flat

Code	Ø	Pack
PSL007	110 mm	100
PSL008	125 mm	100
PSL010	150 mm	100

Folded

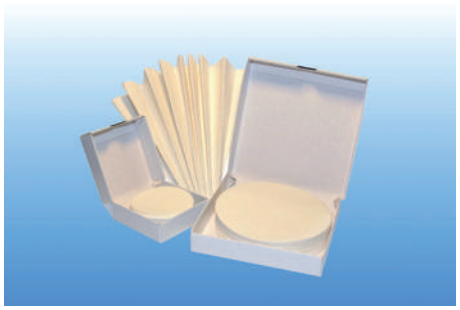
Code	Ø	Pack
PSL017	125 mm	100
PSL019	150 mm	100

Filter SCSG characteristics

Type	Weight (g/m²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
SCSG	84	0.16	5-8	50	High

Filtros SCMO

FILTRES RS



1| Average filtration rate.
2| Medium texture.
3| For all types of gravimetric analysis.

Flat

Code	Ø	Pack
PSL028	90 mm	100
PSL030	125 mm	100
PSL031	135 mm	100
PSL032	150 mm	100

Folded

Code	Ø	Pack
PSL041	150 mm	100
PSL042	185 mm	100

Filter SCMO characteristics

Type	Weight (g/m²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
SCMO	84	0.16	5	50	High

PSM - Quantitative, fast

Filters SCRO

FILTRESRS

1| Fast filtering speed. Lax texture. Used in metallurgical laboratories

Flat

Code	Ø	Pack
PSM003	40 mm	100
PSM004	55 mm	100
PSM005	70 mm	100
PSM006	90 mm	100
PSM007	110 mm	100
PSM008	125 mm	100
PSM010	150 mm	100

Folded

Code	Ø	Pack
PSM014	70 mm	100
PSM015	90 mm	100
PSM016	110 mm	100
PSM017	125 mm	100
PSM018	135 mm	100
PSM019	150 mm	100
PSM020	185 mm	100
PSM021	210 mm	100
PSM022	240 mm	100

Filter SCRO characteristics

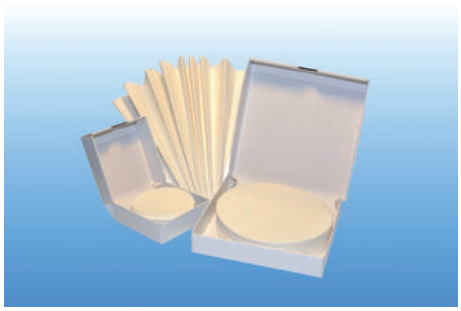
Type	Weight (g/m²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
SCRO	85	0.18	8-12	20	High

PSN - Quantitative, very fast

Filters SCTR

FILTRESRS

1| Very fast filtration speed. Lax texture. Suitable for the retention of coarse precipitates such as metal hydrides.



Flat

Code	Ø	Pack
PSN006	90 mm	100
PSN007	110 mm	100
PSN008	125 mm	100
PSN009	135 mm	100
PSN010	150 mm	100
PSN011	185 mm	100
PSN012	210 mm	100
PSN013	240 mm	100

Folded

Code	Ø	Pack
PSN019	150 mm	100
PSN020	185 mm	100
PSN021	210 mm	100
PSN022	240 mm	100

Filter SCTR characteristics

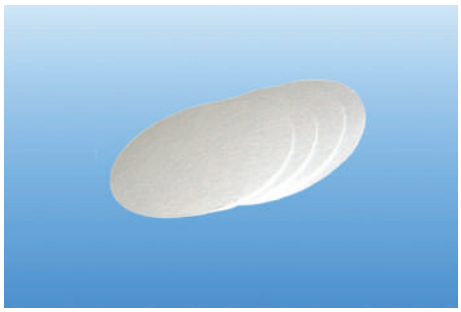
Type	Weight (g/m²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
SCTR	84	0.13	12-15	10	High

PSP - Glass fiber

Filters FV281

FILTRESRS

1| Employed in air pollution control



Code	Ø	Pack
PSP004	25 mm	100
PSP007	47 mm	100
PSP008	55 mm	100
PSP011	90 mm	100
PSP012	110 mm	100
PSP016	150 mm	100
PSP019	200 mm	100

Filter FV341 characteristics

Type	Weight (g/m²)	Tensile strength (N/15 mm)	Porosity (Gurley 5 oz. 0-300 ml) (s)	Wet tensile strength (N/15 mm)
FV281	65-75	> 4,5	15-25	> 1

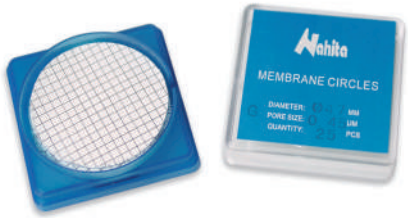
PSR - Membrane filters

Gridded membranes

1| Sterilized by gamma radiation.
2| Presented in individual bags.
3| Cellulose acetate and nitrate

Code	Diameter	Pore	Pack
PSR001	47 mm	0.45 µm	50

Gridded membranes



1| They have a grid engraved on the surface that allows for a colony count.
2| Non-sterile, autoclavable
3| Cellulose acetate and nitrate

Code	Diameter	Pore	Pack
PSR013	13 mm	0.22 µm	100
PSR014	13 mm	0.45 µm	100
PSR015	13 mm	0.80 µm	100
PSR016	25 mm	0.22 µm	100
PSR017	25 mm	0.45 µm	100
PSR018	25 mm	0.80 µm	100
PSR019	47 mm	0.22 µm	25
PSR020	47 mm,	0.45 µm	25
PSR021	47 mm	0.80 µm	25

Membrane filters

1| Cellulose acetate and nitrate

Code	Diameter	Pore	Pack
PSR003	13 mm	0.22 µm	200
PSR004	13 mm	0.45 µm	200
PSR005	13 mm	0.80 µm	200
PSR006	25 mm	0.22 µm	200
PSR007	25 mm	0.45 µm	200
PSR008	25 mm	0.80 µm	200
PSR009	47 mm	0.22 µm	50
PSR010	47 mm	0.45 µm	50
PSR011	47 mm	0.80 µm	50
PSR012	142 mm	0.80 µm	50

Cellulose acetate

Code	Diameter	Pore	Pack
PSR026	25 mm	0,20 µm	100
PSR027	25 mm	0,45 µm	100
PSR028	47 mm	0,20 µm	100
PSR029	47 mm	0,45 µm	100

PSR - Membrane filters

Cellulose nitrate, gridded, sterile

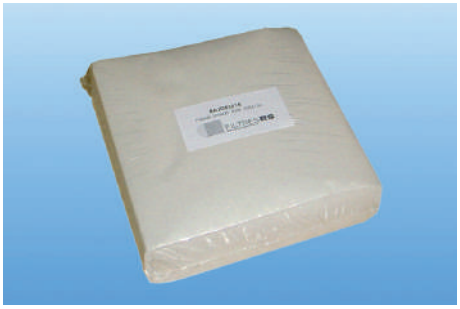
FILTRESRS

Code	Diameter	Pore	Type	Pack
PSR033	47 mm	0,20 µm	White Grid Black	100
PSR032	47 mm	0,45 µm	White Grid Black	100
PSR030	47 mm	0,20 µm	Black Grid White	100
PSR031	47 mm	0,45 µm	Black Grid White	100

PSX - Reams

FILTRESRS

Code	Paper type	Weight	Dimensions	Reams of
PSX001	Joseph paper	25 g/m²	15x15 cm	500 sheets
PSX002	Joseph paper	25 g/m²	35x50 cm	500 sheets
PSX007	White paper	67 g/m²	40/42x52 cm	500 sheets
PSX005	White paper	77 g/m²	52x52 cm	500 sheets
PSX004	Grey paper	60 g/m²	42x52 cm	500 sheets
PSX006	White paper	77 g/m²	58x65 cm	100 sheets



PSZ - Others

Cytocentrifuges

FILTRESRS

1| They have a grid engraved on the surface that allows for a colony count. Non-sterile, autoclavable

Code	Paper type	Weight
PSZ001	75 x 25	200

Antibiotic discs

FILTRESRS

Code	Paper type	Weight
PSZ002	6	1000 discs
PSZ003	9	1000 discs
PSZ004	12	1000 discs
PSZ005	13	1000 discs

PVB - Cellulose syringe filters

Sterile cellulose acetate

FILTRESRS

1| Box of 50 units.

Ø 13 mm

Code	Pore (µm)	Colour
PVB011	0,20	Blue
PVB012	0,45	Yellow

Ø 25 mm

Code	Pore (µm)	Colour
PVB016	0,20	Blue
PVB017	0,45	Yellow

PVZ - Others

Nylon

FILTRESRS

1| Box of 500 unities.

Ø 13 mm		Ø 25 mm	
Code	**Pore (µm)**	**Code**	**Pore (µm)**
PVZ001	0,20	PVZ003	0,20
PVZ002	0,45	PVZ004	0,45

Polyethersulfone

FILTRESRS

1| Box of 500 unities.

Ø 13 mm		Ø 25 mm	
Code	**Pore (µm)**	**Code**	**Pore (µm)**
PVZ005	0,20	PVZ007	0,20
PVZ006	0,45	PVZ008	0,45

PXB - Vacuum pumps

Membrane pump

Nahita

1| Oil-free, they do not need water and therefore do not produce any waste water.
2| They have an analog metal pressure gauge.

Code	PXB001
Vacuum pressure	638 mm Hg (Torr); 0.085 MPa; 850 mbar
Flow	10 L/min - 0.6 m3/h
Consumption	20 W
Weight	4 Kg
Dimensions	245 x 135 x 245 mm
Power	220-240v 50hz

Vacuum membrane pumps

Code - PXB011

Code - PXB010

Nahita

1| Small in size, it has a vacuum gauge, free of oil and maintenance, as well as a handle for easy transport.
2| Metal body with plastic details and suction cup feet (threaded and metric 5) for greater adherence. Adjustable pressure by side air outlet valve.

Code	PXB010	PXB011
Presión de vacío	Up to 200 mbar	Up to 50 mbar
Pumping speed	20 L/min	30 L/min
Pump head	Single	
Power	160 W	
Power supply	220V, 50 Hz	
Noise level	<50d B	
Temperatura	7-40ºC	

PXB - Vacuum pumps

Rotary vane vacuum pump

1| Vacuum pump with rotary vanes that allows to generate a higher vacuum with a flow of 127L/min. Recommended for high volume vacuum drying ovens. Silent operation and protection against overheating. Maximum power 375W.
2| Made of metal with rubber feet and base to avoid slipping due to vibrations. It includes a handle for easy carrying. With general ON/OFF button.

Code	PXB012	
Voltage	110V / 60Hz	220V / 50 Hz
Free air displacement	5 CFM	4,5 CFM
Full vacuum	$3x10^{-1}$ Pa 0,05 Mbar	
Rotation speed	3500	2800
Power	1/2HP	
Oil capacity	330 mL	
Dimensions	290x115x220 mm	
Weight	9 Kg	

Moisture trap for vacuum pumps

1| Humidity trap with height adjustment and olive inlet and outlet connections, for 8mm inner Ø tubes.
2| Includes silicone tube 7cm long and 8mm internal Ø and 16mm external Ø

Code	PXB015

PXL - Water jet vacuum pumps

Water jet pump

1| Requires a water pressure of about 4 kg/cm², generating an approximate vacuum of 17 mmHg.

Code	Length	Ø upper	Ø olive
PXL001	320 mm	18 mm	10 mm

Plstic water jet pumps

1| Made of polypropylene. Non back flow. Easily dismantled for cleaning, autoclavable.

Code	Description	mm Hg	bar
PXL004	Water jet pump	191.5	9.804
PXL005	Tube connection for PXL004		

PXL - Vaccum pumps

Hand vacuum pump

Kartell

1| Made of polystyrene, shockproof. Manual operation.
2| Valve to restore atmospheric pressure.
3| Vacuum pressure 625 mm Hg. Tube internal diameter 6 mm.

Code	Description	Vol. per action
PXL006	Without gauge	15 mL
PXL007	With gauge	15 mL

PZH - Cell strainer

Cell strainer

ENDO plasticware

1| For preparation of stem cells and tissue-derived primary cells.
2| Sterile, RNase/DNase free, pyrogen free. Suitable for Corning, Thermo, etc, 50mL centrifuge tube.

Code	Specification	Colour	Embalaje
PZH001	100 μm, 150 mesh	Green	100 uds/box
PZH002	70 μm, 220 mesh	Orange	100 uds/box
PZH003	40 μm, 330 mesh	Purple	100 uds/box

Q DIDACTIC MATERIAL

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QLG - Light and optics 402
QLJ - Thermology 404
QLL - Magnetism and electrostatics 406
QLN - Electricity and electronics 408

QBB - Anatomy models

Sense organs - Eye

1| Detachable eyeball model.
2| Represented parts: scleral-corneal (cornea and sclera), uveal (iris and choroid) and retinal layers, lens, anterior and posterior eye chambers, optic nerve and eye muscles.
3| Supplied with base.

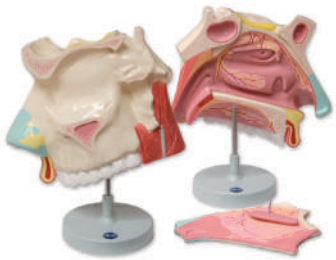
Code	Parts	Magnifications	Dimensions
QBB001	6	6x	15x15x25 cm
QBB016	5	6x	16x16x20 cm

Sense organs - Ear

1| Representation of the outer, middle and inner ear.
2| Parts: pinna and auditory canal, tympanic membrane, chain of ossicles, Eustachian tube, cochlea and semicircular canals as well as the auditory nerve
3| Removable parts according to model.

Code	Parts	Magnifications	Dimensions
QBB002	4	3x	15x36x20 cm
QBB003	3	1.5x	12x17x12 cm

Sense organs - Nasal cavity



1| Corresponding to the upper left half of the face.
2| Represented the frontal, sphenoidal and maxillary sinuses, the nasal septum and cartilage, the mucosa and olfactory bulb, as well as the upper, middle and lower turbinates.
3| Shows the blood supply and nerve endings of the nasal, olfactory mucosa and palate.
4| Supplied with base. Made of PVC .

Code	Parts	Magnifications	Dimensions
QBB004	2	3x	15x28x33 cm

QBB - Anatomy models

Sense organs - Skin section

1| Three-dimensional section of thin human skin
2| Representation of the epidermis, dermis and hypodermis
3| Observed structures: hair follicles, sebaceous and sweat glands, sensory receptors, nerves, blood and lymph vessels.
4| Supplied with base.
5| Made of PVC.

Code	Parts	Magnifications	Dimensions
QBB029	1	60x	17x17x18 cm

Skeleton and vertebral column - Vertebrae and pelvis

1| It shows the morphology and disposition of the cervical, thoracic, lumbar and sacral vertebrae.
2| Includes the representation of the intervertebral discs and also the pelvis.
3| Supplied with support.
4| Made of PVC .

Code	Parts	Magnifications	Dimensions
QBB006	1	1x	92x34x15 cm

Skeleton and vertebral column - Flexible vertebral columnpelvis

1| Spine with occipital plate and pelvis.
2| Representation of vertebral arteries and a herniated disc.
3| Aluminum support included.
4| Made of PVC .

Code	Parts	Magnifications	Dimensions
QBB007	1	1x	92x34x15 cm

QBB - Anatomy models

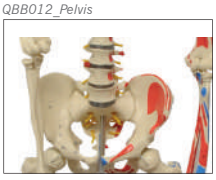
Skeleton and vertebral column - Mini skeleton

1| Tabletop skeleton mounted on support.
2| Removable cranial vault and mobile jaw.
3| Supplied with support.
4| Made of PVC .

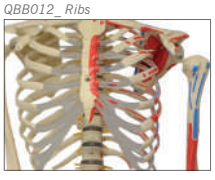
Code	Parts	Magnifications	Dimensions
QBB010	1	0.25x	45 cm

Skeleton and vertebral column - Human skeleton

QBB012_Pelvis



QBB012_ Ribs



QBB012_Knee

1| Mobile lower jaw with 3 removable teeth and detachable skull
2| Vertebral nerves, vertebral arteries and lumbar disc herniation.
3| Support with 5 legs provided with wheels.
4| Includes poster.
5| Made of PVC.

Code	Description	Magnifications
QBB011	Human skeleton	1x
QBB012	Human skeleton with muscles	1x

QBB - Anatomy models

Skeleton and vertebral column - Cranium and jaw

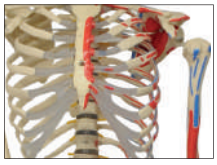
1| Representation of the skull and facial skeleton
2| Removable cranial vault.
3| Articulated lower jaw with 3 removable teeth.
4| Made of PVC .

Code	Parts	Magnifications	Dimensions
QBB014	2	1x	22x15x17 cm

Skeleton and vertebral column - Body with muscles

QBB013_Thigh

QBB013_Back



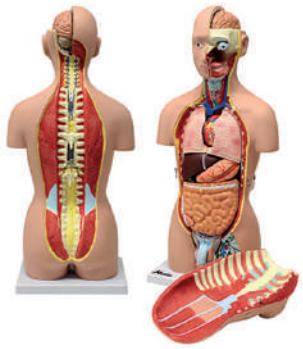
QBB012_Head and neck

1| Over 400 numerically identified structures of muscles and internal organs.
2| A total of 31 detachable parts.
3| Highly stable base support.
4| Complete explanatory legend.
5| Made of PVC

Code	Parts	Magnifications	Dimensions
QBB013	32	0.75x	80x33x23 cm

QBB - Anatomy models

Head and torso - Human mini torso with head



1| Human male mini-torso.
2| Detachable parts: head, brain, lung lobes, stomach, heart, liver, intestinal tract and male genital system.
3| Supplied with base.

Code	Parts	Height
QBB015	13	42 cm

Head and torso - Dual-sex human torso, open back

1| It shows the digestive, respiratory, urinary, reproductive and nervous systems.
2| Shows the organs that make up the head, neck, chest cavity (trachea, lungs, heart, esophagus), male and female pelvic cavity, as well as the abdominal cavity (liver, stomach, intestine, pancreas).

Code	Parts	Height	Magnifications
QBB041	27	85 cm	1x

Head and torso - Head and neck

1| Representation of the skull and facial skeleton.
2| Removable cranial vault.
3| Articulated lower jaw with 3 removable teeth. Made of PVC

Code	Parts	Height
QBB026	4	1x

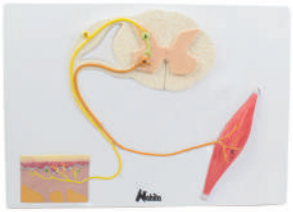
QBB - Anatomy models

Nervous system - Spinal cord

1| With representation of the grey substance (anterior and posterior horns, grey commissure and appendageal duct) and the white substance (anterior, lateral and posterior cords, anterior commissure, ventral and dorsal grooves).
2| Includes two vertebrae and shows the motor and sensory roots.
3| Supplied with base. Made of PVC.

Code	Parts	Magnifications
QBB024	1	2x

Nervous system - Spinal cord, muscle and skin



1| It includes the spinal cord (gray and white matter), a section of skin with its receptor nerve ending and the corresponding muscle with its motor nerve ending.
2| Mounted on a board. Made of PVC

Code	Parts	Dimensions
QBB025	1	50x36x6 cm

Nervous system - Brain

1| Divided into two brain hemispheres.
2| Model GBB027 subdivided to show the different lobes, brain stem and cerebellum Supplied with base.
3| Made of PVC.

Code	Parts	Magnifications
QBB027	9	1x
QBB028	2	1x

QBB - Anatomy models

Urinary system - Kidney, glomerulus and nephron

1| Longitudinal section of the kidney with its functional unit, nephron and blood vessels, and the renal corpuscle.
2| Mounted on a table.
3| Made of PVC.

Code	Parts	Magnifications
QBB030	1	3x/100x/650x

Urinary system - Urinary system

1| Representation of the human urinary system.
2| Includes the male and female anatomies and constituent organs.
3| Mounted on a table.
4| Made of PVC .

Code	Parts	Magnifications
QBB018	1	1x

Respiratory system - Respiratory system

1| Represented are the entire larynx, trachea and lungs.
2| Shows the trachea, bronchi and bronchioles and their terminal structures called alveoli.
3| Numerous detachable parts including the heart
4| Made of PVC .

Code	Parts	Magnifications
QBB008	7	1x

QBB - Anatomy models

Respiratory system - Larynx

1| Structure that links the pharynx to the trachea
2| It contains the vocal cords, formed by the elastic folds of its walls.
3| Shows the protruding part on the front of the neck, commonly known as the “nut”.
4| Made of PVC .

Code	Parts	Magnifications
QBB022	4	2.5x

Genitalia and pregnancy - Placenta

1| Section of placenta comprising the umbilical cord.
2| It reproduces in detail its internal structure, with a high vascularization, the umbilical vessels, the maternal vessels, the villi and the placental septum.
3| Made of PVC.

Code	Parts	Magnifications
QBB036	1	1x

Genitalia and pregnancy - Embryo development

1| Represented 8 stages of embryonic development from the fourth week to the sixth month of pregnancy.
2| They show the individual and twin fetus in the various normal, transverse and breech positions.
3| Mounted on a table.
4| Made of PVC.

Code	Magnifications
QBB037	1x

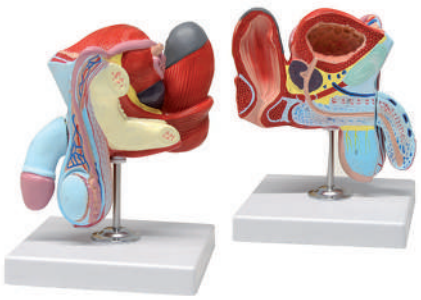
QBB - Anatomy models

Genitalia and pregnancy - Pregnacy pelvis

1| It shows the female pelvis at the 40th week of pregnancy and the fetus in its usual pre-birth position.
2| Fetus detachable for examination. Made of PVC.

Code	Parts	Magnifications
QBB038	2	1x

Genitalia and pregnancy - Male genital apparatus



1| Vertical section of the male genital system.
2| Shows the penis, the testicles lodged in the scrotum, the vas deferens, and the prostate.
3| Includes representation of the bladder and rectal colon.
4| With vertical rotating base.
5| Made of PVC.

Code	Parts	Magnifications
QBB020	2	1x

Genitalia and pregnancy - Female genital apparatus

1| Vertical section of the female genital system.
2| Shows the vagina, uterus, ovaries and fallopian tubes, bladder and rectal colon.
3| With vertical rotating base. Made of PVC.

Code	Parts	Magnifications
QBB021	2	1x

QBB - Anatomy models

Dental models - Mouth cavity

1| Ideal to show the correct cleaning and protection of the teeth.
2| Representation of tongue, teeth, gums, upper and lower jaw and palate. Supplied with base. Made of PVC .

Code	Parts	Magnifications
QBB040	2	2x

Dental models - Half lower mandible

1| Half right with permanent teeth and several cavities.
2| A movable part that allows to show the irrigation and dental roots.
3| Supplied with base.
4| Made of PVC .

Code	Parts	Magnifications	Dimensions
QBB034	2	1x	7x10x2 cm

Dental models - Upper molar, 3 roots

1| With triple roots and cavities.
2| Removable to show the longitudinal section of the crown and root.
3| Supplied with base.
4| Made of PVC .

Code	Parts	Magnifications	Dimensions
QBB035	2	6x	24x12x12 cm

QBB - Anatomy models

Other organs - Heart

1| Represented are arteries, capillary blood vessels, venules, veins, atria and ventricles.
2| Removable in 3 parts: superior vena cava, aorta and pulmonary arteries, and heart.
3| Made of PVC .

Code	Parts	Magnifications
QBB005	3	3x

Adult torso CPR manikin

1| Adult Cardio-Pulmonary Resuscitation Model.
2| Allows the application of artificial respiration and thoracic compression.

Code	Dimensions
QBB039	80x30x40 cm

QBG - Botanics

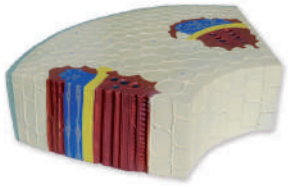
Plant cell

1| Longitudinal section showing the internal structure of the plant cell
2| The nucleus and the most representative organelles (vacuoles, chloroplasts, ER and mitochondria) are distinguished.
3| It shows the external morphology of union between adjacent cells through the cell wall and their primary pores of intermembrane connection (plasmodesm). Made of PVC .

Code	Parts	Magnifications
QBG004	1	3000x

QBG - Botanics

Dicotyledon stem



1| Cross and longitudinal section of the stem.
2| Shows the vascular bundles (xylem, phloem, procambium), the cortex and parenchyma (medullary and interphascicular) as well as the outer epidermis. Made of PVC .

Code	Parts	Magnifications
QBG001	1	125x

Lenghtinal section of root

1| Longitudinal section of root showing its internal and external morphology.
2| It represents the zones of division (caliptra and apical meristem), elongation and differentiation (radical hair).
3| Allows to distinguish from outside in: epidermis, cortical parenchyma, vascular bundle, xylem and phloem.
4| Made of PVC .

Code	Parts	Magnifications
QBG002	1	100x

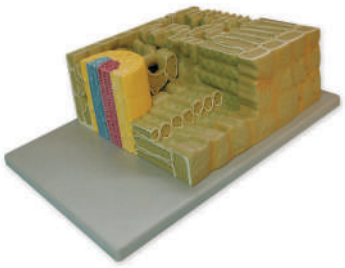
Peach blossom

1| Parts of a flower represented: stem, receptacle, calyx (sepals), corolla (petals), stamens (anther and filament) and pistil (stigma, style and ovary).
2| Supplied with base. Made of PVC

Code	Parts	Magnifications
QBG003	1	20x

QBG - Botanics

Leaf section



1| Cross and longitudinal section of sheet.
2| Numbered representation of parts (upper and lower epidermis, palisade and lagoon parenchyma, vascular bundle and stoma).
3| Supplied with base.
4| Made of PVC .

Code	Parts	Magnifications
QBG005	1	700x

Vascular bundles

1| Cross and longitudinal section of the vascular beam.
2| Numbered representation of parts (parenchyma, xylem, phloem, cambium, fiber, etc).
3| Supplied with base.
4| Made of PVC .

Code	Parts	Magnifications
QBG006	1	550x

Fertilization of angoisperm

1| It shows in detail the male (androcyte) and female (gynoecium) organs of an angiosperm flower.
2| The stamens, containing the pollen, and the carpel (stigma, style, ovary and eggs) are distinguished. Made of PVC .

Code	Parts	Magnifications
QBG007	2	300x

QBN - Zoology

Animal cell

1| Longitudinal section of the animal eukaryotic cell.
2| Includes the nucleus and its genetic content (DNA/RNA)
3| Shows the organelles and elements arranged in the cytoplasmic space (smooth and rough endoplasmic reticulum, Golgi apparatus, mitochondria, vesicles, lysosomes, ribosomes, centrioles, etc).
4| Made of PVC.

Code	Parts	Magnifications
QBN001	1	10000x

Ameba

1| Longitudinal section of the unicellular eukaryotic organism called *Amoeba proteus*
2| It allows to distinguish parts of its morphology such as the plasma membrane, the contractile and digestive vacuoles, and its pseudopodia characteristics used to feed and move in the environment.
3| Made of PVC.

Code	Parts	Magnifications
QBN002	1	10000x

Mitosis

1| It illustrates the four phases of nuclear division of a eukaryotic cell: prophase, me-phase, anaphase and telophase.
2| Mounted on a table.
3| Made of PVC.

Code	Parts	Magnifications
QBN003	1	10000x

QBG - Botanics

Eartworm dissection

1| Longitudinal section of the anterior region of the earthworm (Lumbricus terrestris)
2| Cross section in relief.
3| Removable digestive tube.
4| Supplied with base.
5| Made of PVC .

Code	Parts	Magnifications
QBN004	2	15x

Locust disection

1| Longitudinal section of the locust (Locusta migratoria).
2| With the following removable parts: legs, antenna, mouthpiece, wings and digestive tract.
3| Supplied with base.
4| Made of PVC .

Code	Parts	Magnifications
QBN005	6	10x

QBN - Zoology

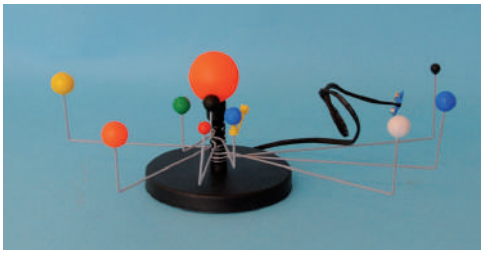
Dog skeleton

1| Assembled on a rectangular black plastic base.
2| It has two metal uprights that attach to the skeleton at the thoracic vertebrae and lumbar vertebrae respectively.
3| The tail (caudal vertebrae) is removable as is the head.
4| Movable jaw.
5| Made of PVC .

Code	Parts	Magnifications
QBN006	1	60x20x26 cm

QBQ - Astronomy

Solar system

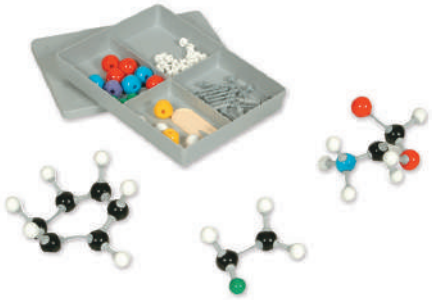


1| Solar system composed of: sun, planets and terrestrial moon.
2| Mechanical movement of the planets.
3| Illumination of the sun by a battery (not included).

Code	Parts
QBQ001	1

QBR - Molecular kits

Organic Chemistry molecular kit, student



1| Composed of a total of 76 pieces of atoms for the representation of simple molecules of organic chemistry.
2| Supplied in a box for storage and a tool for removing bonds.
3| The kit is composed of: Carbon (20 pieces), Hydrogen (30 pieces), Oxygen (6 pieces), Nitrogen (6 pieces), Sulphur (2 pieces), Phosphorus (1 pieces), Halogen (8 pieces), Metal (2 pieces).
4| Links: short (50, white color), medium (41, gray color), long (12, gray color)

Code	QBR003

Organic Chemistry molecular kit, teacher

1| Composed of a total of 146 pieces of atoms for the representation of simple molecules of organic chemistry
2| Supplied in a box for storage and a tool for removing bonds.
3| The kit consists of: Carbon (32 pieces), Hydrogen (40 pieces), Oxygen (22 pieces), Nitrogen (10 pieces), Sulphur (13 pieces). Halogen (8 pieces), Metal (14 pieces), Phosphorus (7 pieces)
4| Links: medium (50, grey colour), long (36, grey colour).

Code	QBR004

QBR - Molecular kits

Biochemistry molecular kit, teacher

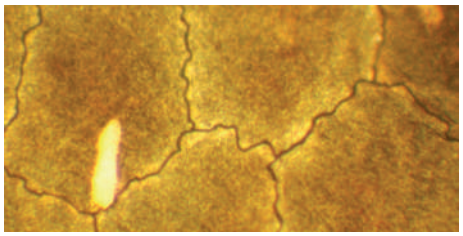
1| Composed of a total of 262 pieces of atoms for the representation of biochemical molecules such as amino acids, peptides, polysaccharides, purines, phospholipids, nucleotides, etc.
2| Supplied in a box for preservation and with two tools for removing bonds.
3| The kit is composed of: Carbon (68 pieces), Nitrogen (34 pieces), Metal (2 pieces), Hydrogen (10 pieces), Oxygen (40 pieces), Sulfur (2 pieces), Phosphorus (6 pieces).
4| Links: visible (10 pieces, gray color), not visible (60 pieces), hydrogen links (100 pieces).

Code	QBR005

QGB - Animal histology

l.s.	Longitudinal Section
c.s.	Cross-Sectional
w.m	Whole Mount
sec.	Section

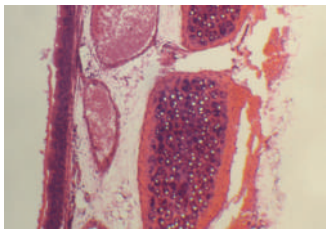
Basic tissue types

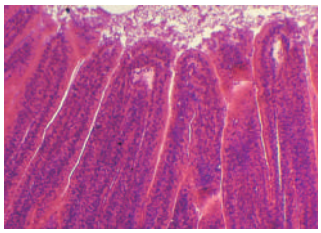


Code	Description
QGB011	Simple flat epithelium, w.m.
QGB012	Stratified flat epithelium, sec.
QGB013	Adipose tissue, sec.
QGB014	Loose connective tissue, w.m.
QGB015	Cartilage, sec.
QGB016	Compact bone, w.m.
QGB017	Human blood smear
QGB018	Frog blood smear
QGB019	Fish blood smear
QGB020	Snake blood smear
QGB021	Smooth muscle, teared, w.m.
QGB022	Skeletal muscle, l.s. and c.s.
QGB023	Cardiac muscle, sec.
QGB058	Gallus domestica blood smear
QGB059	Tendon, dense connective tissue, l.s.
QGB066	Mouse tail, c.s.
QGB079	Ciliated epithelium, sec.

QGB - Animal histology

Organs and systems

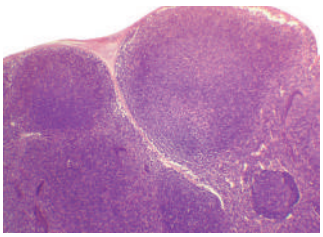
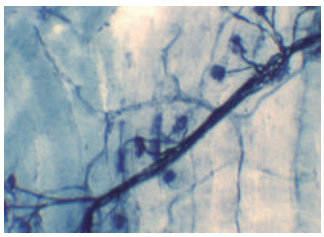




Code	Description
Circulatory system	
QGB046	Artery and vein, c.s.
QGB074	Frog heart, c.s.
QGB075	Arteria de rana, s.t.
QGB076	Frog artery, c.s.
Respiratory system	
QGB043	Lung, sec.
QGB044	Lung, blood irrigation, sec.
QGB045	Smoking lung, human, sec.
QGB063	Trachea, c.s.
QGB064	Trachea, l.s.
Gastrointestinal system	
QGB005	Frog small intestine, c.s.
QGB033	Esophagus, c.s.
QGB034	Parotid gland, sec.
QGB035	Wall of stomach, sec.
QGB036	Small intestine, c.s.
Gastrointestinal system	
QGB037	Jejunum, sec.
QGB039	Large intestine, c.s.
QGB040	Pancreas, sec.
QGB042	Gall bladder, sec.
QGB061	Pig liver, sec.
QGB062	Rabbit liver, sec.
QGB070	Frog stomach, sec.
QGB071	Frog liver, sec.
QGB073	Frog large intestine, c.s.
Reproductive system and embrionary development	
QGB006	Frog egg, sec.
QGB007	Two cell stage frog egg, sec.
QGB008	Cleavage stage frog egg, sec.
QGB009	Frog blastula, sec.
QGB010	Frog gastrula, sec.
QGB050	Rabbit ovary, sec.
QGB051	Human sperm smear
QGB052	Fallopian tube, c.s.
QGB053	Mammary gland, active phase, sec.
QGB065	Rabbit testicle, sec.
QGB067	Frog sperm smear
QGB068	Frog testicle, sec.
QGB069	Frog ovary, sec.
Urinary system	
QGB047	Kidney, l.s.
QGB048	Kidney, blood irrigation, sec.
QGB049	Urinay bladder, sec.
QGB072	Frog kidney, l.s.
Inmune system	
QGB038	Appendix section
QGB041	Spleen, sec.
QGB054	Lymph node, sec.
Nervous system and sense organs	
QGB004	Frog skin, w.m. .
QGB024	Rabbit spinal cord, c.s.
QGB025	Brain, rabbit, silver staining, sec.
QGB026	Cerebellum, rabbit, silver staining, sec.

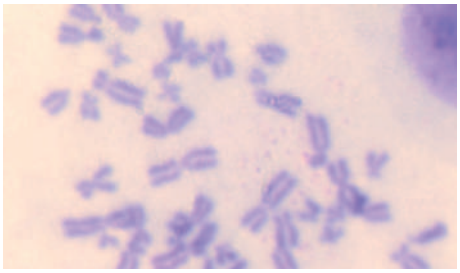
QGB - Animal histology

Organs and systems

Code	Description
QGB027	Cerebellum, rabbit, HE, sec.
QGB028	Motor nerve endings, rabbit, w.m.
QGB029	Motor neuron, w.m.
QGB030	Brain, human, HE, sec.
QGB031	Brain, human, silver staining, sec.
QGB032	Taste buds, rabbit, sec.
QGB055	Eyeball, l.s.
QGB056	Human skin, sweat glands, sec.
QGB057	Human skin, hair follicles, sec.
QGB060	Tongue with filiform papillae, l.s.

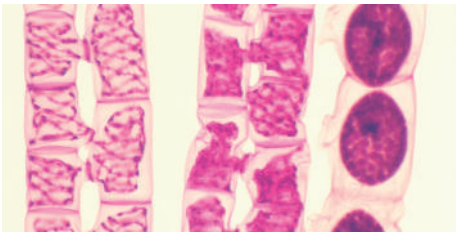
Cytologie



Code	Description
QGB001	Mitosis horse Ascaris eggs, sec.
QGB002	Locusta testicle, sec.
QGB003	Giant chromosomes of salivary gland, w.m.
QGB077	Human chromosomes in blood, male

QGF - Plant histology

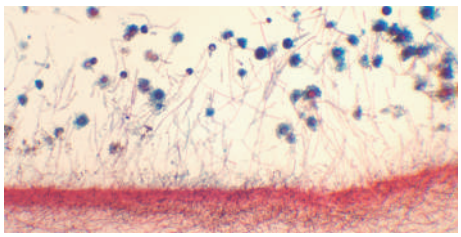
Alga



Code	Description
QGF010	Chlamydomonas, w.m.
QGF011	Volvox, w.m.
QGF012	Spirogyra conjugation, w.m.
QGF013	Porphyra, w.m.
QGF023	Brown alga leaf, c.s.
QGF116	Spirogyra vegetative mass, w.m.
QGF125	Blue-green alga, w.m.
QGF129	Oscillatoria, w.m.
QGF130	Euglena, w.m.

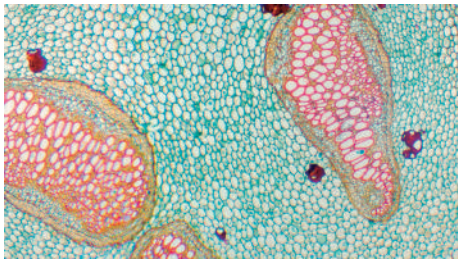
QGF - Plant histology

Fungi and lichens



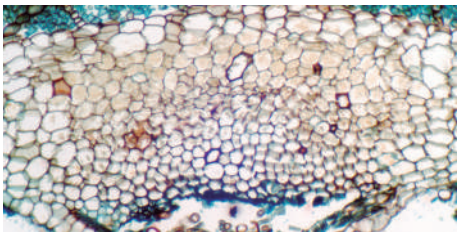
Code	Description
QGF004	Mushroom, sec.
QGF005	*Rhizopus nigricans, w.m.*
QGF006	*Penicillium, w.m.*
QGF007	*Aspergillus, w.m.*
QGF008	Yeast, w.m.
QGF009	Lichen, sec.

Ferns



Code	Description
QGF024	Fern prothallus w/young sporophyte, w.m.
QGF025	Fern prothallus w/antheridium, c.s.
QGF026	Fern prothallus w/archegonium, c.s.
QGF117	Fern sorus, sec.
QGF118	Fern subterraneous stem, c.s.
QGF128	Fern sporangium, w.m.

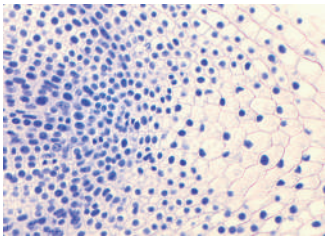
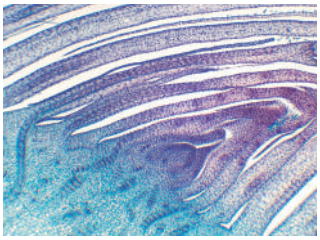
Moss and liverworts



Code	Description
QGF014	Marchantia thallus, c.s.
QGF015	Marchantia sorus, sec.
QGF016	Marchantia antheridium, l.s.
QGF017	Marchantia archegonium, l.s.
QGF018	Moss leaf, w.m.
QGF019	Moss, w.m.
QGF020	Moss protonema, w.m.
QGF021	Moss antheridium, l.s.
QGF022	Arquegonio de musgo, s.l.
QGF122	Moss stem, c.s.

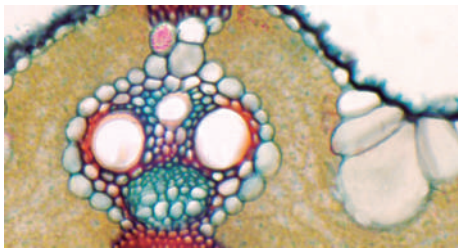
QGF - Plant histology

Angiosperms - basic strcutures and tissues

Code	Description
QGF046	Mitosis, onion root tip cells, l.s.
QGF051	Narcissus tazetta root tip, l.s.
QGF065	Stem with collenchyma, c.s.
QGF066	Stem with sclerenchyma, c.s
QGF067	Stem with lenticels, c.s.
QGF068	Morus alba petiole, abscission layer, l.s.
QGF069	Stem with sieve tubes, l.s.
QGF070	Stem with intercalary meristem, l.s.
QGF071	Syringo stem tip, l.s.
QGF072	Hydrilla verticillata stem tip, l.s.
QGF073	Onion stomata, w.m.
QGF074	Triticum aestivum stomata, w.m.
QGF075	Oryza sativa stomata, w.m.
QGF076	Vicia faba stomata, s.e.
QGF077	Commelina communis stomata, w.m.
QGF078	Thre types of plant leaves, c.s.
QGF080	Nerium indicum leaf, sunken stomata, c.s.
QGF086	Osmanthus fragans leaf, stone cells, c.s.
QGF091	Sunken plant leaf, aerenchyma, c.s.
QGF105	Stone cells, pear fruit, sec.
QGF106	Plasmodesmata, endosperm sec.
QGF113	Meiosis, lily anther, c.s.
QGF126	Persimmon pulp cells
QGF127	Sugarcane armpit bud, c.s.
QGF132	Solanum tuberosum tuber, sec.

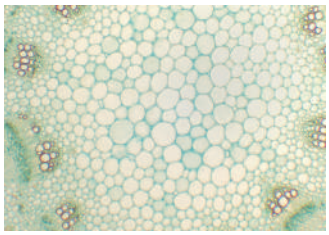
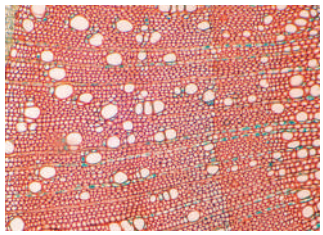
Angiosperms - Leaves



Code	Description
QGF079	Ficus leaf, sunken stomata, c.s.
QGF081	Ligustrum lucidum leaf, c.s.
QGF082	Jasminum nudiflorum leaf, c.s.
QGF083	Lily leaf, c.s.
QGF084	Coffee leaf, c.s.
QGF085	Camellia sinensis leaf, c.s.
QGF087	Triticum aestivum leaf, c.s.
QGF088	Oryza sativa leaf, c.s.
QGF089	Corn leaf, c.s.
QGF090	Narzissus tazetta leaf, c.s.
QGF092	Fig leaf, c.s.
QGF093	Privet leaf, c.s.
QGF094	Sugarcane leaf, c.s.
QGF111	Mono and dicotyledon leaves, c.s.
QGF003*	Nicotina tabacum leaf c.s.

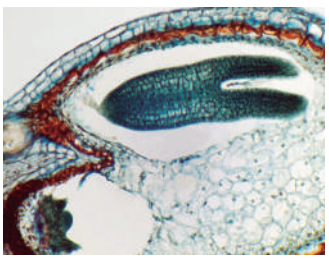
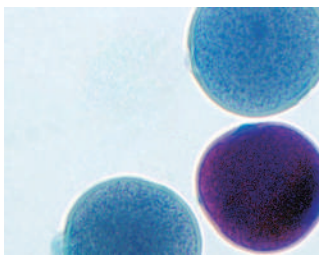
QGF - Plant histology

Angiosperms - Stems

Code	Description
QGF052	Helianthus young stem, l.s.
QGF053	Sambucus williamsii stem, c.s.
QGF054	Hibiscus syriacus stem, c.s.
QGF055*	Tilia 1 year stem, c.s.
QGF056	Arachis hypogaea young stem, c.s.
QGF057	Arachis hypogaea old stem, c.s
QGF058	Arachis hypogaea old stem, c.s
QGF059	Corn stem, c.s.
QGF060	Corn stem, l.s.
QGF061	Medicago sativa stem, c.s.
QGF062	Orange stem, c.s.
QGF063	Nerium indicum stem, c.s.
QGF064	Pelargonium hortorum stem, c.s.
QGF110	Mono and dicotyledon stems, c.s.
QGF112	Tilia 1, 2 and 3 year stem, c.s.
QGF115	Herbage and woody stem, c.s.
QGF119	Helianthus stem, c.s.
QGF120	Gossypium young stem, c.s.
QGF121	Gossypium old stem, c.s.
QGF123	Sugarcane stem, c.s.
QGF001*	Ricinus comunis old stem c.s.
QGF002*	Pyrus s.p. stem, c.s.

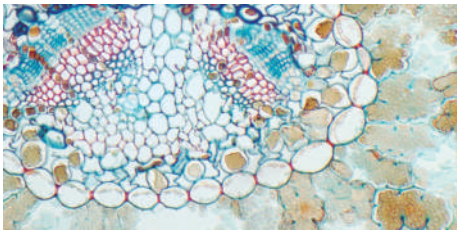
Angiosperms - Reproductive organs and seeds

Code	Description
QGF095	Lily pollen, w.m.
QGF096	Lily anther, c.s.
QGF097	Lily ovary, c.s.
QGF098	Narcissus tazetta ovary, c.s.
QGF099	Helianthus ovary, c.l
QGF100	Capsella young embryo, sec.
QGF101	Capsella middle embryo, sec.
QGF102	Capsella mature embryo, sec.
QGF103	Triticum aestium seed, l.s.
QGF104	Corn seed, l.s.
QGF107	Capsicum pericarp, sec.
QGF108	Luffa cylindrica pollen, w.m.
QGF114	Lilium embryo sac development .
QGF133	Germinated pollen, w.m.

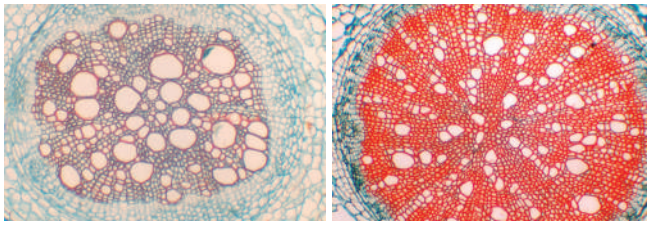
QGF - Plant histology

Gynosperms



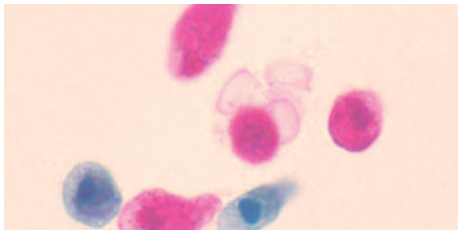
Code	Description
QGF027	Pine leaf, c.s.
QGF028	Pine 1 year stem, c.s.
QGF029	Pine 10 years stem, s.t.
QGF030	Male pine cone, l.s.
QGF031	Female pine cone, l.s.
QGF032	Pine pollen, w.m.

Angiosperms - Roots



Code	Description
QGF033	Cuscuta chinensis parasitic root, c.s.
QGF034	Helianthus old root, c.s. .
QGF035	Ranunculus japonicus root, c.s.
QGF036	Vicia faba young root, c.t.
QGF037	Vicia faba old root, s.t.
QGF038	Vicia faba lateral root, c.s.
QGF039	Ipomoea batatas root, c.s.
QGF040	Iris root, c.s.
QGF041	Gossypium root, c.s.
QGF042	Glycine max root, c.s.
QGF043	Glycine max root nodule, c.s.
QGF044	Raphanus sativus fleshy root, c.s.
QGF045	Daucus carota root, c.s.
QGF047	Onion root, c.s.
QGF048	Corn root, c.s.
QGF049	Oryza sativa root, c.s.
QGF050	Earthpea root, c.s.
QGF109	Mono and dicotyledon roots, c.s.
QGF124	Sugarcane root, c.s.
QGF131	Allium tuberosum root, c.s.

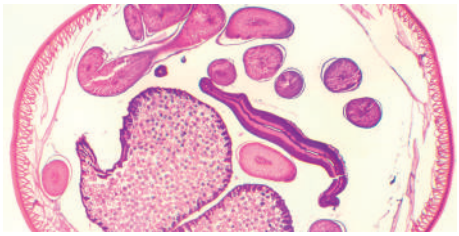
Bacteria and protozoa



Code	Description
QGJ001	Paramecium, w.m.
QGJ002	Unicellular animal, w.m.
QGJ046	Three types of bacteria smear

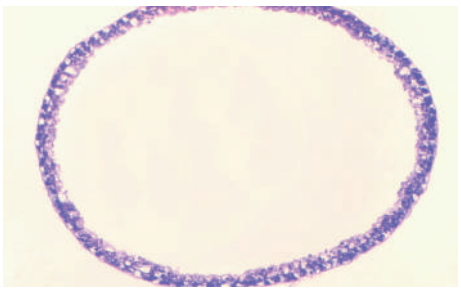
QGJ - Zoology

Aschelminthes, molluscs an annelids



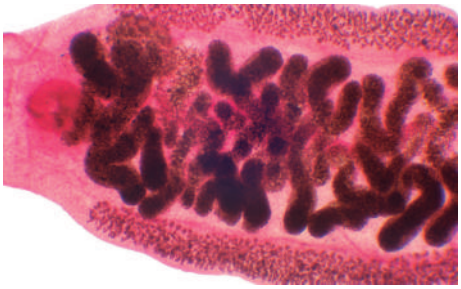
Code	Description
QGJ013	Ascaris male, c.s.
QGJ014	Ascaris female, c.s.
QGJ015	Ascaris male and female, c.s.
QGJ052	Mussel gills, w.m.
QGJ016	Hirudo niponia, w.m.
QGJ017	Earthworm, c.s.

Cnidaria



Code	Description
QGJ003	Hydra w.m.
QGJ004*	Hydra spermary, c.s.
QGJ005*	Hydra ovary, c.s.
QGJ009	Hydra, l.s.
QGJ047	Hydra, c.s.

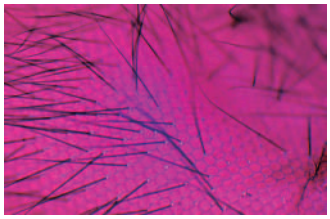
Plathelminthes



Code	Description
QGJ010	Turbellaria, w.m.
QGJ011	Turbellaria, c.s.
QGJ012*	Bladder worm, w.m.
QGJ028	Schistosoma miracidium, w.m.
QGJ029	Schistosoma male, w.m.
QGJ030	Schistosoma female, w.m.
QGJ031	Schistosoma male anf female conjugation, w.m.
QGJ048	Turbellaria, digestive tube, w.m.
QGJ049*	Clonorchis sinensis, w.m.
QGJ064	Schistosoma eggs, w.m.
QGJ065	Schistosoma cercaria, w.m.

QGJ - Zoology

Arthropods



Code	Description
QGJ006	Daphnia, w.m.
QGJ007	Siphonaptera, w.m.
QGJ008	Aphis, w.m.
QGJ018	Male mosquito mouth parts, w.m.
QGJ019	Female mosquito mouth parts, w.m.
QGJ020	House fly mouth parts, w.m.
QGJ021	Honeybee mouth parts, w.m.
QGJ022	Butterfly mouth parts, w.m.
QGJ023	Grasshopper mouth parts, w.m.
QGJ024	Periplaneta mouth parts, w.m.
QGJ025	Insect compund eye, sec.
QGJ033*	Caterpillar
QGJ034	Spider, w.m.
QGJ035	Mosquito larva, w.m.
QGJ036	House fly, w.m.
QGJ037	Female mosquito, w.m.
QGJ038	Male mosquito, w.m.
QGJ039	Fruit fly, w.m.
QGJ040	Ant, w.m.
QGJ041	Insect digging leg, w.m.
QGJ042	Insect walking leg, w.m.
QGJ043	Insect swimming leg, w.m.
QGJ044	Insect leaping leg, w.m.
QGJ045	Insect pollinating leg, w.m.
QGJ050	Tetranychus telarius, w.m.
QGJ051	Insect compound eye, w.m.
QGJ054	House fly wing, w.m.
QGJ055	Butterfly wing, w.m.
QGJ056	Honeybee wing, w.m.
QGJ057	House fly leg, w.m.
QGJ058	Honeybee front and back leg, w.m.
QGJ059	House fly antenna, w.m.
QGJ060	White ant antenna, w.m.
QGJ061	Mosquito antenna, w.m.
QGJ062	Chafer antenna, w.m.
QGJ063	Honeybee antenna, w.m.

Chordates and vertebrates

Code	Description
QGJ027	Branchiostoma belcheri, pharynx, c.s.
QGJ032	Bird feather, w.m.
QGJ053	Fish scale, w.m.

QGR - Slide sets

Reproduction and genetics

1| Aimed at illustrating the processes of both animal and plant reproduction; they allow a journey from the apparently simple division of a cell through the mechanism of mitosis, to the complex embryonic development of plants and higher animals.
2| Supplied in a plastic box to ensure the protection and durability of the preparations.

1_ Genetics

Code	Set	N° slides
QGR006	Genetics	5

1| Includes human and polygenic chromosome preparations, animal mitosis, plant mitosis and meiosis. Composed of:

QGB077 - Human chromosomes in blood, male
QGF113 - Meiosis, lily anther, c.s.
QGB001 - Mitosis horse Ascaris eggs, sec.
QGF046 - Mitosis, onion root tip cells, l.s.
QGB003 - Giant chromosomes of salivary gland, w.m.

2_ Animal and plant rep.

Code	Set	N° slides
QGR005	Animal and plant rep.	24

1| Includes preparations of the gametogenesis process and early stages of amphibian embryonic development, sexual reproduction of gymnosperms and angiosperms Composed of:

QGB051 - Human sperm smear
QGF095 - Lily pollen, w.m
QGB067 - Frog sperm smear
QGF108 - Luffa cylindrica pollen, w.m.
QGB068 - Frog testicle, sec.
QGF133 - Germinated pollen, w.m.
QGB069 - Frog ovary, sec.
QGF114 - Lilium embryo sac development
QGB006 - Frog egg, sec.
QGF100 - Capsella young embryo, sec.
QGB007 - Two cell stage frog egg, sec.
QGF101 - Capsella middle embryo, sec.
QGB008 - Cleavage stage frog egg, sec.
QGF102 - Capsella mature embryo, sec.
QGB009 - Frog blastula, sec.
QGF103 - Triticum aestium seed, l.s. .
QGB010 - Frog gastrula, sec.
QGF104 - Corn seed, l.s.
QGF032 - Pine pollen, w.m.
QGF126 - Persimmon pulp cells
QGF030 - Male pine cone, l.s.
QGF107 - Capsicum pericarp, sec.
QGF031 - Female pine cone, l.s.

QGR - Slide sets

Histology and organography

1_ Animal histology

Code	Set	Nº slides
QGR001	Animal histology	24

1| Includes preparations of blood, epithelium, connective tissue, cartilage, bone, muscle and nerve tissue. Composed of:

QGB017 - Human blood smear
QGB073 - Frog large intestine, c.s.
QGB018 - Frog blood smear
QGB063 - Trachea, c.s.
QGB019 - Fish blood smear
QGB015 - Cartilage, sec.
QGB020 - Snake blood smear
QGB016 - Compact bone, w.m.
QGB058 - Gallus domestica blood smear
QGB066 - Mouse tail, c.s
QGB014 - Loose connective tissue, w.m.
QGB047 - Kidney, l.s.
QGB059 - Tendon, dense connective tissue, l.s.
QGB021 - Smooth muscle, teared, w.m.
QGB057 - Human skin, hair follicles, sec.
QGB042 - Gall bladder, sec.
QGB056 - Human skin, sweat glands, sec.
QGB022 - Skeletal muscle, l.s. and c.s.
QGB012 - Stratified flat epithelium, sec.
QGB023 - Cardiac muscle, sec.
QGB011 - Simple flat epithelium, w.m.
QGB024 - Rabbit spinal cord, c.s.
QGB036 - Small intestine, c.s.
QGB028 - Motor nerve endings, rabbit, w.m.

2_ Plant histology

Code	Set	Nº slides
QGR002	Plant histology	24

1| Includes meristem preparations, parenchyma, cholenchyma, sclerenchyma, xylem, phloem and protective tissue. Composed of:

QGF046 - Mitosis, onion root tip cells, l.s.
QGF081 - Ligustrum lucidum leaf, c.s.
QGF105 - Stone cells, pear fruit, sec.
QGF076 - Vicia faba stomata, s.e.
QGF051 - Narcissus tazetta root tip, l.s.
QGF132 - Solanum tuberosum tuber, sec.
QGF086 - Osmanthus fragans leaf, stone cells, c.s.
QGF077 - Commelina communis stomata, w.m.
QGF071 - Syringo stem tip, l.s.
QGF091 - Sunken plant leaf, aerenchyma, c.s.
QGF082 - Jasminum nudiflorum leaf, c.s.
QGF088 - Oryza sativa leaf, c.s.
QGF072 - Hydrilla verticillata stem tip, l.s.
QGF065 - Stem with collenchyma, c.s.
QGF069 - Stem with sieve tubes, l.s.
QGF087 - Triticum aestivum leaf, c.s.
QGF127 - Sugarcane armpit bud, c.s.
QGF053 - Sambucus williamsii stem, c.s.
QGF074 - Triticum aestivum stomata, w.m.
QGF080 - Nerium indicum leaf, sunken stomata, c.s.
QGF070 - Stem with intercalary meristem, l.s.
QGF066 - Stem with sclerenchyma, c.s.
QGF075 - Stomates d'Oryza sativa, s.e.
QGF092 - Fig leaf, c.s.

QGR - Slide sets

3_ Animal organography

Code	Set	Nº slides
QGR003	Animal organography	25

1| Includes preparations of skin, digestive, excretory, respiratory and reproductive systems, circulatory, lymphoid and nervous systems and sense organs of mammals. Composed of:

QGB046 - Artery and vein, c.s.
QGB063 - Trachea, c.s.
QGB033 - Esophagus, c.s.
QGB064 - Trachea, l.s.
QGB035 - Wall of stomach, sec.
QGB043 - Lung, sec.
QGB037 - Jejunum, sec.
QGB044 - Lung, blood irrigation, sec.
QGB039 - Large intestine, c.s.
QGB050 - Rabbit ovary, sec.
QGB040 - Pancreas, sec.
QGB065 - Rabbit testicle, sec.
QGB061 - Pig liver, sec.
QGB024 - Rabbit spinal cord, c.s.
QGB042 - Gall bladder, sec.
QGB057 - Human skin, hair follicles, sec.
QGB041 - Spleen, sec.
QGB056 - Human skin, sweat glands, sec.
QGB054 - Lymph node, sec.
QGB060 - Tongue with filiform papillae, l.s.
QGB047 - Kidney, l.s.
QGB032 - Taste buds, rabbit, sec.
QGB048 - Kidney, blood irrigation, sec.
QGB055 - Eyeball, l.s.
QGB049 - Urinay bladder, sec.

4_ Plant organography

Code	Set	Nº slides
QGR004	Plant organography	25

1| Includes preparations of stems, roots, leaves and reproductive organs of gymnosperms and angiosperms (monocots and dicotyledons). Composed of:

QGF028 - Pine 1 year stem, c.s.
QGF042 - Glycine max root, c.s.
QGF029 - Pine 10 years stem, c.s.
QGF038 - Vicia faba lateral root, c.s.
QGF112 - Tilia 1, 2 and 3 year stem, c.s.
QGF049 - Oryza sativa root, c.s.
QGF110 - Mono and dicotyledon stems, c.s.
QGF043 - Glycine max root nodule, c.s.
QGF115 - Herbage and woody stem, c.s.
QGF027 - Pine leaf, c.s.
QGF056 - Arachis hypogaea young stem, c.s.
QGF111 - Mono and dicotyledon leaves, c.s.
QGF057 - Arachis hypogaea old stem, c.s.
QGF078 - Thre types of plant leaves, c.s.
QGF067 - Stem with lenticels, c.s.
QGF068 - Morus alba petiole, abscission layer, l.s.
QGF109 - Mono and dicotyledon roots, c.s.
QGF097 - Lily ovary, c.s.
QGF033 - Cuscuta chinensis parasitic root, c.s.
QGF098 - Narcissus tazetta ovary, c.s.
QGF039 - Ipomoea batatas root, c.s
QGF099 - Helianthus ovary, c.l.
QGF045 - Daucus carota root, c.s.
QGF096 - Lily anther, c.s.
QGF035 - Ranunculus japonicus root, c.s.

QGR - Slide sets

Zoology

1| Aimed at studying the different evolutionary groups that make up the animal kingdom, with special emphasis on the animal group with the greatest diversification and specialization: insects.
2| Supplied in a plastic box to ensure the protection and durability of the preparations.

1_ Insects anatomy

Code	Set	Nº slides
QGR007	Insects anatomy	24

1| Includes preparations of different types of wings, legs, antennas, mouthparts and eyes of insects. Composed of:

QGJ041 - Insect digging leg, w.m.
QGJ023 - Grasshopper mouth parts, w.m.
QGJ042 - Insect walking leg, w.m.
QGJ024 - Periplaneta mouth parts, w.m.
QGJ043 - Insect swimming leg, w.m.
QGJ059 - House fly antenna, w.m.
QGJ044 - Insect leaping leg, w.m.
QGJ060 - White ant antenna, w.m.
QGJ045 - Insect pollinating leg, w.m.
QGJ061 - Mosquito antenna, w.m.
QGJ057 - House fly leg, w.m.
QGJ062 - Chafer antenna, w.m.
QGJ058 - Honeybee front and back leg, w.m.
QGJ063 - Honeybee antenna, w.m.
QGJ018 - Male mosquito mouth parts, w.m.
QGJ054 - House fly wing, w.m..
QGJ019 - Female mosquito mouth parts, w.m.
QGJ055 - Butterfly wing, w.m.
QGJ020 - House fly mouth parts, w.m.
QGJ056 - Honeybee wing, w.m.
QGJ021 - Honeybee mouth parts, w.m.
QGJ051 - Insect compound eye, w.m.
QGJ022 - Butterfly mouth parts, w.m.
QGJ025 - Insect compund eye, sec.

2_ Microorganisms

Code	Set	Nº slides
QGR008	Microorganisms	13

1| Includes preparations with examples of prokaryotes, fungi and animals and single-cell algae. Composed of:

QGJ001 - Paramecium, w.m.
QGF008 - Yeast, w.m.
QGJ002 - Unicellular animal, w.m.
QGF010 - *Chlamydomonas, w.m.*
QGJ046 - Three types of bacteria smear
QGF130 - *Euglena, w.m.* .
QGF125 - Blue-green alga, w.m.
QGF011 - *Volvox, w.m.*
QGF005 - *Rhizopus nigricans*, m.e.
QGF012 - Spirogyra conjugation, w.m.
QGF006 - *Penicillium, w.m.*
QGF116 - Spirogyra vegetative mass, w.m.
QGF007 - *Aspergillus, w.m.*

3_ Life cycless

Code	Set	Nº slides
QGR009	Life cycless	12

1| Includes preparations of the different phases of the hepatic, moss and fern life cycle. Composed of:

QGF014 - Marchantia thallus, c.s.
QGF015 - Marchantia sorus, sec.
QGF024 - Fern prothallus with young sporophyte, w.m.
QGF117 - Fern sorus, sec.
QGF016 - Marchantia antheridium, l.s.
QGF128 - Fern sporangium, w.m.
QGF017 - Marchantia archegonium, l.s.
QGF025 - Fern prothallus with antheridium, c.s.
QGF019 - Moss, w.m.
QGF026 - Fern prothallus with archegonium, c.s.
QGF020 - Moss protonema, w.m.
QGF118 - Fern subterraneous stem, c.s.

QGR - Slide sets

4_ Zoology

Code	Set	Nº slides
QGR010	Zoology	40

1| Includes preparations of skin, digestive, excretory, respiratory and reproductive systems, circulatory, lymphoid and nervous systems and sense organs of mammals. Composed of:

QGJ001 - Paramecium, w.m.
QGJ013 - Ascaris male, c.s.
QGJ002 - Unicellular animal, w.m.
QGJ014 - Ascaris female, c.s.
QGJ003 - Hydra w.m.
QGJ015 - Ascaris male and female, c.s.
QGJ066 - Paramecium conjugation, w.m
QGB001 - Mitosis horse Ascaris eggs, sec.
QGJ067 - Paramecium fission, w.m.
QGJ052 - Mussel gills, w.m.
QGJ009 - Hydra, l.s.
QGJ006 - Daphnia, m.e.
QGJ047 - Hydra, c.s.
QGJ007 - Siphonaptera, w.m.
QGJ010 - Turbellaria, w.m.
QGJ008 - Aphis, w.m.
QGJ011 - Turbellaria, c.s.
QGJ050 - Tetranychus telarius, w.m.
QGJ068 - Bombyx mori larva (silkworm), w.m.
QGJ034 - Spider, w.m.
QGJ028 - Miracidio de Schistosoma, m.e.
QGJ035 - Mosquito larva, w.m.
QGJ029 - Schistosoma male, w.m.
QGJ036 - House fly, w.m.
QGJ030 - Schistosoma female, w.m.
QGJ037 - Female mosquito, w.m.
QGJ031 - Schistosoma male anf female conjugation, w.m.
QGJ038 - Male mosquito, w.m.
QGJ048 - Turbellaria, digestive tube, w.m.
QGJ039 - Fruit fly, w.m.
QGJ049 - Clonorchis sinensis, w.m.
QGJ040 - Ant, w.m. .
QGJ064 - Schistosoma eggs, w.m.
QGJ026 - Branchiostoma belcheri, w.m.
QGJ065 - Schistosoma cercaria, w.m
QGJ027 - Branchiostoma belcheri, pharynx, c.s.
QGJ016 - Hirudo niponia, w.m.
QGJ032 - Bird feather, w.m.
QGJ017 - Earthworm, c.s.
QGJ053 - Fish scale, w.m.

Basic Education Set

Code	Set	Nº slides
QGR011	Basic Education Set	24

1| Includes 24 prepared slides in 6 categories:

- Animals: Mouse hair, hare hair, dog hair, sheep hair
- Plants: Arachis hypogaea stem, Ficus leaf, onion epidermis, scaly hair of silver berries
- Insects: Bee abdomen, bee leg, grasshopper wing, housefly leg
- Textile fibers: Colored threads, handmade paper, fingerprints, Bemberg
- Pollen & Spores & Seeds: Lily pollen, pine pollen, bottlebrush seeds, fern spores
- Small creatures: Plant lice, ant, shrimp egg, Daphnia

QLB - Mechanics and fluids

Inclined plane

1| Composed of 2 metal plates joined by a hinge at one end; one of the plates serves as a base, and the other as an inclined plane.
2| The apparatus includes a plastic cart with a hook, a set of weights (1x100 g, 1x50 g, 1x20 g), and a small plate with a string of negligible mass.

Code	Description
QLB001	Inclined plane

Force plane

1| Circular scale graduated from 0 to 360º (divisions every 1º and number every 10º)
2| Includes 4 pulleys with clamps, set of ropes, centering bar and 4 sets of weights (1x100 g, 1x10 g, 1x20 g, 1x50 g) with slots and hook (100 g).

Code	Description
QLB002	Force plane

Free fall apparatus with digital timer

1| The equipment consists of an electromagnet mounted on a plastic casing that allows a metal ball attached to a square section bar to be released.
2| The time elapsed between the ball being released and hitting the platform will be shown on the digital counter display in order to calculate the gravity g of free fall.
3| The equipment includes a digital counter.

Code	Description
QLB003	Free fall apparatus with digital timer

QLB - Mechanics and fluids

Communicating vessels

1| Composed of 4 glass tubes each with a different diameter section and shape, connected to each other at the base by a horizontal glass tube common to all of them, sealed in a manifold and mounted on a support.

Code	Description
QLB004	Communicating vessels

Pressure syringes

1| Composed of a pair of graduated glass syringes with capacities of 50 and 10 cm3 and providing a cross-sectional area ratio of 3:1.
2| They are mounted on a metal base and feature a platform on top for weight attachment; the nozzles of both syringes are connected by a 3-position valve.
3| Set of weights included: 1x200 g, 2x100 g, 1x50 g, 2x20 g, 1x10 g.
4| Enables simple Boyle's Law experiments to be carried out.

Code	Description
QLB005	Pressure syringes

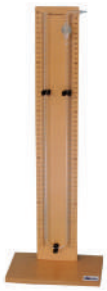
Bell jar with hand vacuum pump

1| Instrument designed to demonstrate the effect of atmospheric pressure.
2| Consisting of a transparent bell and a vacuum hand pump both made of tough ABS plastic.
3| The hood is fitted with a pressure gauge and a vacuum release valve.
4| Note: Exposure or contact of the apparatus to organic solvents or vapours or other aggressive chemical reagents is strictly prohibited. The apparatus is NOT autoclavable.

Code	Description
QLB006	Bell jar with hand vacuum pump

QLB - Mechanics and fluids

U tube manometer



1| With stopcock located near the end of one of the branches and mounted on a bracket.
2| The scale has a 50-0-50 graduation with 1 mm divisions.

Code	Description
QLB007	U tube manometer

Magdeburg hemispheres

1| The apparatus consists of two hemispheres of about 100 mm ø, both with a handle at the top. One of them has a plastic key for the vacuum inside by means of a vacuum pump and a rubber ring on the inside for proper sealing.
2| The lightweight plastic construction makes it easy to handle and use.

Code	Description
QLB008	Magdeburg hemispheres

Mechanics kit

1| Kit for studying mechanical motion with various components to demonstrate Hooke's law, Newton's third law, among others. Components: 1x 1N dynamometer, 1x 2N dynamometer, 1x inclined beam, 2x weighing plates, 2x weights with hooks, 1x balance lever, 1x support with scale, 4x S-shaped hooks, 3x magnetic clamps, 4x threaded bolts, 1x spring, 2x supports with magnets, 1x set of weights, 1x magnetic tape measure with scale in blocks and pointer, 1x torque table, 1x pulley support, 1x level, 1x 48 mm pole, 1x 106 mm pole.

Code	Description
QLB009	Mechanics kit

QLB - Mechanics and fluids

Metal cube set, 20 mm

1| Set of 6 cubes of various materials; supplied in a box.
Composed by 1 cube of 20mm of each material: Brass, Lead, Iron, Copper, Aluminium and Zinc.

Code	Description
QLB010	Metal cube set, 20mm

Density cylinder set

1| Composed of 12 cylinders of different materials and different lengths (38mm-60 mm), but with the same ø of 12,5 mm.
2| The cylinders are made of the following materials: copper, brass, acetyl, rubber, acrylic, aluminium, polypropylene, PVC, nylon, oak, maple, and walnut.

Code	Description
QLB011	Density cylinder set

Aluminum cylinder set for density determination

1| Composed of 12 aluminium rods each of different length (different mass and volume) but of the same ø of 12.5 mm. Useful to show the constant density with size variation. It can also be used to study the specific heat capacity of the material.

Code	Description
QLB012	Aluminum cylinder set for density determination

QLB - Mechanics and fluids

Specific Gravity Determination Set

1| Set for determining specific gravity consisting of four cylindrical rods of the same size but of different materials: brass, aluminium, copper and iron.
2| The size of the cylinder is 12,5 mm (D) × 50 mm (L).

Code	Description
QLB013	Specific Gravity Determination Set

Elastic materials kit

For the study of the elastic behaviour of different materials. The kit consists of the following components:
- 25 extendable steel springs of 13 × 29 mm.
- 2 wide steel springs of approximately 114 × 75 mm (L × D)
- 2 blocks of soft latex foam
- 1 spool of copper wire 32 SWG, 50g
- 2 spools of copper wire 26 SWG, 50g
- 1 soft rubber tube (50 cm)
- 4 cords with ring at both ends
- 4 soft rubber erasers for twisting

Code	Description
QLB014	Elastic materials kit

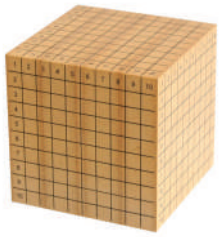
Set of metal cubes with hooks

1| Designed for use with density, specific gravity and specific heat in educational experiments.
2| Composed of 20mm size cubes with hook for easy suspension and the following materials: brass, lead, copper, iron, aluminium, zinc and tin.

Code	Description
QLB015	Set of metal cubes with hooks

QLB - Mechanics and fluids

Cube decimeter



1| Hardwood cube 10 cm in size, precision cut and finished, with a total volume of 1 dm^3, 1000 cm^3 or 1 litre.
2| Each side of the cube has a 10×10 grid, with a total of 100 1 cm squares in each first row and column forming a grid on each side marked 1 to 10.

Code	Description
QLB016	Cube decimeter

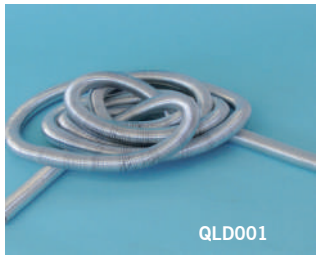
Density sphere

1| Demonstrates the relationship of the density of a liquid to temperature.
2| It consists of a hollow copper sphere, with a sealed mouth, carefully adjusted to float in cold water and sink in hot water.

Code	Description
QLB017	Density sphere

QLD - Waves and sounds

Wave form helix



1| Springs made of wire specially designes for the demostration af wave motion. The Snakey type springs has bent ends for safety.

Code	Description	ø	Length
QLD001	Snakey	19 mm	300 cm
QLD002	Slinky	75 mm	10 cm

QLD - Waves and sounds

Vibrator generator with accessories

1| Especially suitable for the production of mechanical oscillations.
2| The voltage input is via 4 mm pins and the output of mechanical oscillations is via a shaft at the top.
3| A locking system provides safety by blocking the movement of the shaft.
4| The unit is supplied complete with Chladni plates and steel strips.

Code	Description
QLD003	Vibrator generator w/accessories

Melde's apparatus

1| To show the effects of vibrations on a stretched string and to investigate the relationship between frequency, tension and density.
2| Consisting of a thin metal rod mounted on a clamp formed by a pair of 4 mm terminal pins, so that its free length can be adjusted as desired.

Code	Description
QLD004	Melde's apparatus

Pendulum

1| Designed for carrying out numerous experiments related to pendulum motion.
2| The apparatus consists of a metric ruler attached vertically to the rod of a support. From the upper end of the support, a rod from which hang three spheres, each 25 mm in diameter and made of different materials (wood, steel and aluminium).

Code	Description
QLD005	Pendulum

QLD - Waves and sounds

Pair of tuning forks with box

1| Consisting of a pair of nickel-plated tuning forks of frequency A (426.6), each mounted on the top of a soundboard.
2| Each tuning fork has a sliding part on one of the branches by means of which the frequency can be changed from the nominal frequency.
3| It includes a disc type rubber hammer.

Code	Description
QLD006	Pair of tuning forks with box

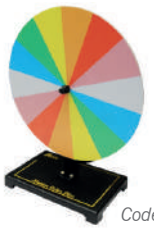
Set 8 tuning forks

1| With flat branches and clearly marked frequency.
2| Consisting of 8 tuning forks each with a frequency (Hz) of the diatonic scale: C1-(256), D-(288), E-(320), F-(341.3), G-(384), A-(426.6), B-(480) and C2-(512).
3| Supplied with box.

Code	Description
QLD007	Set 8 tuning forks

QLG - Light and optics

Newton color disk



Code. QLG001

Code QLG002

1| Designed to demonstrate that white light is composed of the additive mixture of all the colours of the spectrum.
2| They consist of a circular multicolour disc with sectors of different spectral colours in the appropriate proportion.

Code	Description	Ø
QLG001	Manual	200 mm
QLG002	Motorised	80 mm

QLG - Light and optics

Optical bench

1| Made of aluminium with a ruler graduated in millimetres. Also equipped with brackets for the attachment of various accessories whose height can be adjusted.
2| The optical bench is supplied complete with the following accessories: halogen lamp, flat glass, lens holder, black circular screen with aperture, diaphragm, ground glass screen, grating holder, cross-slotted plate, Jolly photometer, needle holder and receiver screen.

Code	Description
QLG004	Optical bench

Hartl's disk with laser

1| Designed to study the various concepts of optics including reflection and refraction using the ray tracing technique.
2| Consisting of a rotating white metal disc, with a 90°-0-90°-0-90° graduation.
3| The equipment is supplied with a laser type light source which allows the projection of 1, 3 or 5 parallel beams for the performance of the different experiments.
4| Prisms and mirrors with magnets are also included so that they can be placed on the disc.

Code	Description
QLG005	Hartl's disk with laser

Refraction disk

1| Metal disc divided into 4 quadrants graduated from (0-90)°.
2| It has a semicircular acrylic tank which occupies half of the disc to determine the refractive index of different liquids such as water, oil, etc.
3| The whole assembly is mounted on a metal base with 1-7 markings to place the light source at the desired level.

Code	Description
QLG006	Refraction disk

QLG - Light and optics

Laser ray box, red

1| Colour red laser beam box (wavelength 650 nm) with a choice of 1, 3 and 5 parallel beams.
2| Supplied with power adapter.

Code	Description
QLG007	Laser ray box, red

Hand spectroscope

1| Designed for qualitative examination of the composition of absorption and emission spectra.
2| Features a collimator, prism and telescope mounted inside a straight tube.
3| The end of the eyepiece can be slid along its length to focus the spectrum.
4| Supplied in a wooden box.

Code	Description
QLG008	Hand spectroscope

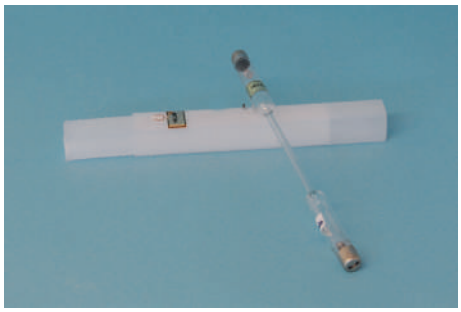
Power supply for spectral tubes

1| With On/Off switch and protected plugs for complete safety during use.
2| The colour black power supply eliminates the effect of ambient light.

Code	Description
QLG009	110-240 V AC, 50-60 Hz

QLG - Light and optics

Spectral tubes



1| Each tube is filled with a type of gas or vapour to study the respective emission spectra.

Code	Gas type	Length
QLG010	Argon	265 mm
QLG011	Helium	265 mm
QLG012	Neon	265 mm
QLG013	Hydrogen	265 mm
QLG014	Nitrogen	265 mm
QLG015	Mercury	265 mm

Laser ray optics kit

1| The kit consists of:

NEW

- Diode laser box: Consisting of 5 independent laser modules with a peak wavelength of 635mm.
- Power adapter
- Beam selector
- Human eye sheet
- Camera sheet
- Galilean telescope sheet
- Kepler telescope sheet
- Spherical aberration sheet
- Periscope sheet
- Hartle circular sheet
- Biconvex lens, biconcave lens, flat convex lens r=45 mm, flat convex lens r=75 mm, flat concave lens
- Concave mirror
- Convex mirror
- Flat mirror
- Rectangular slab
- Prism
- Optical fibre
- Magnetic board

Code	Description
QLG017	Laser ray optics kit

QLG - Light and optics

Magnetic optic ray kit

1| The kit consists of:

- Light box.
- Power supply.
- 1- and 2-slot diaphragm.
- 3 and 5 slits diaphragm.
- Right angle prism.
- Concave lens.
- Convex lens.
- Trapezoidal acrylic body.
- Semicircular body.
- Parabolic Mirror.
- Smooth Mirror.
- Colour filter set
- Optical disc.
- Metal board.

Code	Description
QLG018	Magnetic optic ray kit

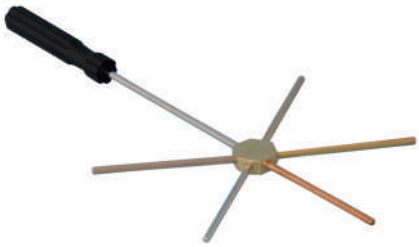
QLJ - Thermology

Gravesande`s ring and ball

1| Instrument for demonstrating the thermal expansion of solids. Consists of a brass ring and ball, both mounted on separate handles.
2| When cold, the 19 mm ø ball passes easily through the ring but does not pass through it when heated.

Code	Description
QLJ001	Gravesande`s ring and ball

Thermal conductivity apparatus star shaped



1| It allows the demonstration of the differences in thermal conductivity of 5 different metals: brass, copper, aluminium, steel and stainless steel.

Code	Description
QLJ002	Thermal conductivity apparatus star shaped

QLJ - Thermology

Joule's calorimeter

1| It consists of an inner vessel of about 300 mL volume contained in an outer vessel of about 900 mL, both made of aluminium and separated by insulating material to minimise heat loss.
2| The lid has a stirring rod and a hole for inserting a thermometer.

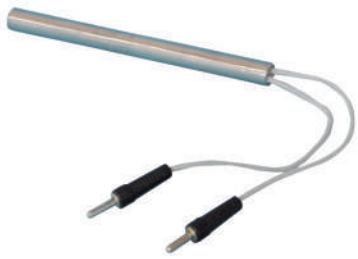
Code	Description
QLJ003	Joule's calorimeter

Calorimeter block

1| For experiments to determine the specific heat capacity of different metals.
2| Each block is cylindrical in shape and has a mass of 1 kg ± 2% and has two holes, a large central one (about 12.5 mm) to house the resistor and a smaller one (about 7.5 mm) to house a thermometer or a temperature sensor.

Code	Material
QLJ004	Aluminium
QLJ005	Steel
QLJ006	Copper
QLJ007	Brass

Heating resistance for calorimeter blocks



1| Heating element specially designed for use with the calorimetric blocks.
2| The heating element is housed in a stainless steel sheath from which there are two cables for electrical connection. The heating element operates on 12 V, 50 W power.

Code	Description
QLJ008	Heating resistance f/calorimeter blocks

QLJ - Thermology

Boyle's law apparatus

1| It is used to study the pressure/volume ratio of a gas at constant temperature.
2| It consists of a graduated cylinder of (0-300) cm3 made of transparent material placed on a support. At one end the cylinder is closed by a piston and at the other end there is a valve to regulate the mass of air contained in the cylinder.
3| The pressure inside the cylinder is read by means of a needle manometer located next to the valve.

Code	Description
QLJ009	Boyle's law apparatus

Gas kinetics theory model

1| Equipment to demonstrate the kinetic theory of gases explaining molecular motion, decrease of density with altitude, increase of pressure/volume ratio with temperature, etc.
2| Consists of a transparent cylindrical tube closed with a lid and with a rubber diaphragm at the base over which a vibratory motion is generated by connecting the apparatus to a low voltage electrical source.
3| Includes a set of metal balls and a cardboard disc.

Code	Description
QLJ010	Gas kinetics theory model

Thermodinamic kit

1| The kit components include: 1 aluminum rod, 1 iron rod, 2 radiation boxes, 1 propeller, 2 bossing heads, 1 hook, 1 Bunsen burner, 1 Erlenmeyer flask, 2 test tubes, 1 small glass tube, 2 large glass tubes, 1 wax crayon, 1 bimetallic strip, 1 conductivity bar device, 1 right-angle steel needle, 1 pointer, 1 graduated thermometer, 1 ungraduated thermometer, 1 wire gauge, paraffin wax, 1 silicone tube, 1 aluminum block, 1 iron block, 3 support rings, 1 alcohol burner, 4 U-tubes, 1 graduated cylinder, 1 water convection tube, 1 calorimeter with lid, 1 large beaker, food coloring, sodium thiosulfate, 2 one-hole stoppers, 2 two-hole stoppers, 3 one-hole silicone stoppers, 2 cork stoppers without holes, 2 universal clamps.

Code	Description
QLJ011	Thermodinamic kit

QLL - Magnetism and electrostatics

Magnets

1| Different models of magnets for experiments on magnetism and visualisation of magnetic fields.

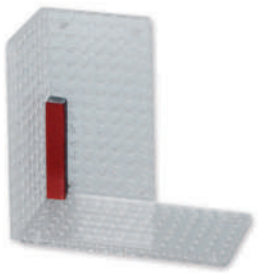
Ref.	Shape	Dimensions	Material
QLL001	Rectangular	75x75x10 mm	AlNiCo
QLL002	Cylindrical	100x12 mm	AlNiCo
QLL003	Ring	36,18x8 mm	Ceramics
QLL004	Horseshoe	75x12x5 mm	Chrome-plated steel

Iron filling fine

1| For the study of magnetic fields.
2| Supplied in a 500g box.

Code	Description
QLL005	Iron filling fine

Magnetic field demonstrator, 3D

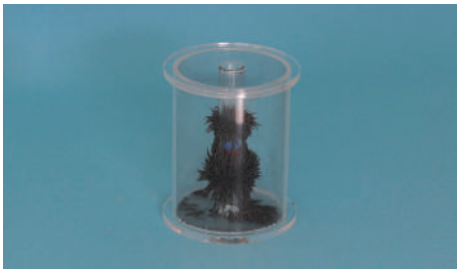


1| Set of 4 transparent plates, size 155x76x6 mm.
2| Includes a rectangular magnet.

Code	Description
QLL006	Magnetic field demosntrator, 3D

QLL - Magnetism and electrostatics

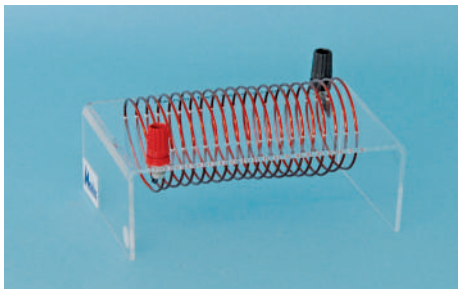
Magnetic field chamber



1| It consists of a hollow chamber made of transparent acrylic material with a hole in the centre to accommodate the cylindrical magnet.
2| It also allows the study of magnets of other shapes by simply placing their adjacent poles on either side of the chamber.

Code	Description
QLL007	Magnetic field chamber

Magnetic field demonstrator



1| For the study and demonstration of magnetic fields associated with different shapes of current-carrying wire. Three models are available:
1. Straight: U-shaped copper wire mounted vertically on the base. Maximum current 8 A.
2. Loop: copper wire in the form of a 1-turn loop. Maximum current 8 A.
3. Coil: copper coil approx. 52x125 mm (diam. x length).

Code	Description
QLL008	Straight
QLL009	Loop
QLL010	Coil

Stand with magnetic needle

1| Circular bakelite base with non-magnetic pillar and carbon steel support on which the needle pivots.

Code	Description
QLL011	Stand with magnetic needle

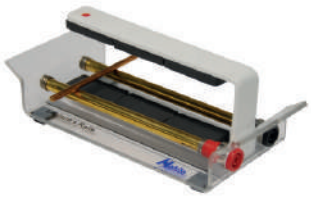
QLL - Magnetism and electrostatics

Compass inclinometer

1| To demonstrate the earth's magnetic field and illustrate the general rule.
2| Consists of an aluminium ring with a double-pointed needle pivoting in the centre; the ring is graduated from 0-360°.
3| Mounted on an aluminium stand which can be adjusted in height and rests on a plastic base of dimensions approx. 142x80x40 mm.

Code	Description
QLL012	Compass inclinometer

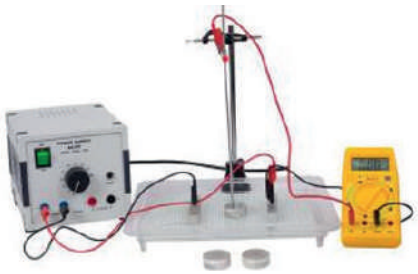
Laplace's rail



1| It consists of an acrylic base from which 2 parallel brass rods of about 120 mm in length start.
2| To demonstrate the action of a magnetic field on a freely moving conductive element placed on two conductive elements.

Code	Description
QLL013	Laplace's rail

Linear fields and equipotential lines kit

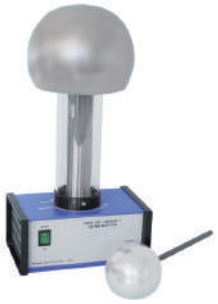


1| Power supply (2-12 V AC). Output voltage 2,3,4,5,6,8,10 and 12 V AC full wave, rectified, unsmoothed and unregulated D.D. in max. 8 steps. Overload protection with resettable thermal trip. Operating voltage 230 V AC, 50 Hz.

Code	Description
QLL018	Field lines and equipotential lines kit

QLL - Magnetism and electrostatics

Van de Graaff generator



1| Used for electrostatic experiments where a continuous high voltage source is necessary.
2| The aluminium base features insulated plastic sides for safety. An internal motor allows continuous movement of a rubber belt between 2 pulleys, this produces charge transfer from the belt to the metal dome via charge collector "combs".
3| By positioning the discharge sphere close enough to the charged dome, the charge is transferred to earth in the form of an electric spark which jumps from the dome to the discharge sphere.

Code	Description
QLL014	Van de Graaff generator
QLL016	Belt for Van de Graaff generator

Wimshurst electrostatic generator

1| Equipment capable of generating electrostatic potentials.
2| Equipped with 2 acrylic plates with aluminium sectors glued radially along the edge. Both plates are parallel to each other and rotate in opposite directions through a system of pulleys and belts; the pulley on one of the plates seats a crank.
3| The load can be accumulated in a pair of high-capacity Leyden bottles.
4| When the machine starts to rotate, the discharge spheres accumulate charge until the transfer from one discharge sphere to another takes place in the form of an electric spark.

Code	Description
QLL015	Wimshurst electrostatic generator
Accessory	
QLL019	Belt

QLN - Electricity and electronics

Power supply, 1-12 V AC/DC

1| Provided with overload and short-circuit protection.

Code	QLN001
Power	110-240 V AC, 50-60 Hz
Output voltage	AC/DC 1-12 V
Intensity	6 A máx.
Primary protection	Fuse 2 A
Secondary protection	Thermal switch

**Cables QLN005 and QLN006 are not included.*

Regulated power supply, 1-15 V DC

1| Provided with overload and short-circuit protection.

Code	QLN002
Power	110-220 V ± 10% AC, 50/60 Hz
Output voltage	0-15 V DC, continuous variable range
Intensity	0-2 A máx., continuous variable range
Displays	2 LED displays for voltage and intensity
Environmental cond.	0-40°C, 95% HR

**Cables QLN005 and QLN006 are not included.*

Electric field apparatus

1| For the study of the electric field generated by different electrode configurations.
2| Supplied complete with a circular transparent plastic plate, 2 linear and 2 circular electrodes (35 and 70 mm ø respectively), 2 straight electrodes and 2 T-shaped electrodes.

Code	Description
QLN003	Electric field apparatus

QLN - Electricity and electronics

Demonstration dynamo, AC/DC

1| It demonstrates the conversion of mechanical energy into electrical energy and the principle of operation of simple dynamos.
2| The complete apparatus is mounted on a base and is capable of generating AC and DC current simultaneously.

Code	Description
QLN004	Demonstration dynamo, AC/DC

Power supply for vibration generator

1| Line and square wave selection.
2| Internal loudspeaker.

Code	QLN007
Power	110-220 V ± 10% AC, 50/60 Hz
Output voltage	0-5V
Frequency ranges	10-110Hz, 0,1-1,1 KJz, 1-11 KHz, 10-110KHz
Environmental cond.	0-40°C, 95% HR

Electricity and electronics kit

1| Electricity and electronics kit in an aluminum case, supplied with: electrical circuit and electrical resistance, divided circuit, electric power, transistors, ohmic semiconductor diode, capacitor in DC circuit, capacitor and resistor in AC circuit, electric motor, electric light cell with application.

Code	Description
QLN008	Electricity and electronics kit

R PROTECTION AND SECURITY

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RBC - Protection clothes 410
RBD - Head cap 411
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RD - Showers and eyewashes 417
RDB - Stations 417
RDD - Eyewash bottles 417
RDZ - Others 419

RZ - Others 419
RZB - Table protectors 419
RZD - Wound treatment 419

RBB - Coats

Lab-coats, 100% cotton

1| Snap buttons, 3 pockets and lapel collar

Code	For	Size
RBB001	Man	S
RBB002	Man	M
RBB003	Man	L
RBB004	Man	XL
RBB009	Woman	S
RBB010	Woman	M
RBB011	Woman	L
RBB012	Woman	XL

Lab-coats, cotton/polyester

1| 65% polyester - 35% cotton
2| Optical white colour, snap buttons, 3 pockets and lapel collar.

Code	For	Size
RBB005	Man	S
RBB006	Man	M
RBB007	Man	L
RBB008	Man	XL
RBB013	Woman	S
RBB014	Woman	M
RBB015	Woman	L
RBB016	Woman	XL

RBB - Coats

Lab-coats disposables

1| Long-sleeved, single-use, polypropylene
2| Velcro fastening (5 velcro fasteners), shirt collar, elasticated cuffs.
3| 100% Latex-free product.

Code	Dimensions	Weight	Colour
RBB019	112x138 cm	35gr, PP	White
RBB020	112x138 cm	35gr, PP	Green
RBB021	112x138 cm	35gr, PP	Blue
RBB022	112x138 cm	25gr, PP	White
RBB023	112x138 cm	25gr, PP	Green
RBB024	112x138 cm	25gr, PP	Blue

RBC - Protection clothes

Overalls with hood, PP

1| Single use long sleeve coverall made of Polypropylene,
2| Zip fastening.
3| Elasticated hood and cuffs.
4| Hood for head protection.
5| 100% Latex free product.

Code	Size	Colour
RBC001	M	White
RBC002	L	White
RBC003	XL	White
RBC004	XXL	White
RBC005	XXXL	White

RBD - Head cap

Disposable head cap

1 | Disposable round polypropylene cap, 15gr.

Code	Ø approx.	Colour	Box
RBD001	30 cm	White	100 units
RBD002	30 cm	Green	100 units

RBD - Head cap

Disposable head cap, fold

1 | Single-use polypropylene accordion cap

Code	Ø approx.	Colour	Box
RBD003	30 cm	White	100 units
RBD004	30 cm	Blue	100 units
RBD005	30 cm	Green	100 units
RBD006	30 cm	Rouge	100 units

RBG - Glasses

Anti-fog

Anti-fog Plus
A thin film of a few μm over the entire surface of the lens that prevents the formation of condensation by absorbing moisture droplets. It prevents the formation of fog, making it impossible to work safely.

The Anti-Fog Plus coating is permanent.

Anti-scratch

Anti-scratch Plus
Treatment applied to the surface of lenses which forms a barrier against surface damage. The lenses are protected against scratches and abrasions caused by rubbing against solid particles.

The Anti-scratch Plus treatment is permanent.

Regulations respected

STANDARD EN 166

REGULATION (EU) 2016/425

Field of use

3 Liquids (drops)	4 Dust with particle thickness > 5 μm	5 Gas, vapour, spray, smoke and dust with particle thickness < 5 μm	9 Splashes of molten metal and penetration of hot solids

RBG - Glasses

Protection mask 601

1| Wide field of vision panoramic glasses. RX insert for corrective lenses.
2| PPE category III (polycarbonate lens). Adjustable elastic strap and flexible frame.
3| With ventilation systems: indirect and in the joint.

601 mask features

1. Anti-fog Plus

2. Anti-scratch Plus

Code	RBG001
Frame	Transparent - Waterproof
Field of use	3, 4, 5, 9
Lens	Transparent PC

Protection mask 602

1| Polycarbonate lens. Indirect ventilation system.
2| Overlap with prescription glasses. Adjustable elastic band and soft frame.

Code	RBG002
Frame	Transparent
Field of use	3, 4
Lens	Transparent UC (untreated)
Lot	**10**

RBG - Glasses

Safety eyewear 505

1| Neck strap included in the package.
2| Extremely lightweight and wrap-around, soft non-slip rubber nose bridge
3| Elastic structure, very flexible and resistant.

Safety eyewear 505 features

=22 g *2. Anti-scratch*

Code	RBG005
Frame	Transparent
Lens	Transparent
Lot	**10**

Safety eyewear 505 features

=22 g *2. Anti-scratch* *3. Anti-fog*

Code	RBG006
Frame	Transparent
Lens	Transparent
Lot	**10**

Safety eyewear 511 for small faces

1| Adjustment of the pins in length and inclination.
2| Certified version for small faces, with H marking according to EN166
3| Frame made of anti-allergic material, built-in lateral protection.

Safety eyewear 511 features

=34 g *2. Anti-scratch*

Code	RBG007
Frame	Blue
Lens	Transparent
Lot	**10**

RBG - Glasses

Safety eyewear 511

1| Adjustment of the pins in length and inclination.
2| Frame made of anti-allergic material, built-in lateral protection.

Safety eyewear 511 features

=34 g | 2. Anti-scratch

Code	RBG009
Frame	Blue
Lens	Transparent
Lot	**10**

Safety eyewear 511

1| Adjustment of the pins in length and inclination.
2| Frame made of anti-allergic material, built-in lateral protection.

Safety eyewear 511 features

=34 g | 2. Anti-scratch | 3. Anti-fog

Code	RBG008
Frame	Black
Lens	Transparent
Lot	**10**

Safety eyewear 519

Safety eyewear 519 features

=43 g | 2. Anti-scratch

Code	RBG011
Frame	Black-grey
Lens	Transparent
Lot	**10**

RBG - Glasses

Safety eyewear 519

1| Ventilation system practiced in the side protections.
2| Adjustable temples in length and inclination. Superposable to prescription glasses.

Safety eyewear 519 features

=43 g | 1. Anti-fog plus | 2. Anti-scratch Plus

Code	RBG010
Frame	Black-grey
Lens	Transparent
Lot	**10**

Safety eyewear 520

1| Ventilation system in the side shields.
2| Superimposable on prescription glasses. Made entirely from polycarbonate, with no metal parts.

Code	RBG012
Frame	Transparent
Lens	Transparent UC
Lot	**10**

Safety eyewear 568

1| Inexpensive glasses ideal for essential protection
2| Light, practical, made of polycarbonate.

=23 g | 2. Anti-scratch

Code	RBG015
Frame	Transparent
Lens	Transparent
Lot	**10**

RBG - Glasses

Safety eyewear 546

1 | Wrap-around lens with excellent side coverage
2 | Sideburns that guarantee an excellent fit and comfort.
3 | Non-slip rubber nose bridge. Very lightweight
4 | Protects against blue light up to 525 nm (UV525)

Safety eyewear 546 features

=25 g | 1. Anti-fog plus | 2. Anti-scratch Plus

Code	RBG014
Frame	Black-orange
Lens	Orange

Safety eyewear 546 features

=25 g | 1. Anti-fog

Code	RBG022
Frame	Rouge-grey
Lens	Transparent

Safety eyewear 546 features

=25 g | 1. Anti-scratch

Code	RBG033
Frame	Black-green
Lens	Transparent

Safety eyewear 5x7

1 | Completely overlayable on prescription glasses
2 | The design of the Frame avoids overlapping of the temples for absolute comfort
3 | Softpad technology. Pin length adjustment

Safety eyewear 5x7 features

=37 g | 1. Anti-fog plus | 2. Anti-scratch Plus

Code	RBG016
Frame	White - blue
Lens	Transparent
Lot	**10**

RBG - Glasses

Safety eyewear 529

1 | Glasses with adjustable temples

=23 g | 1. Anti-scratch

Code	RBG024
Frame	Black-green
Lens	Transparent
Lot	**10**

Safety eyewear 505

1 | Extremely light and enveloping. Elastic, highly flexible and resistant structure. UV400 protection. New temples for improved ergonomics.
2 | Perfect fit and comfort thanks to flexible, adjustable nose bridge.
3 | Neck strap included in packaging.

=24 g | 1. Anti-scratch | 2. Anti-fog

Code	RBG029
Frame	Brown
Lens	Brown
Lot	**10**

RBG - Glasses

Face shield 699 with chin guard

1| Interchangeable foam front headband. Top adjustment. 1mm thick polycarbonate face shield, foldable at 90º. Can be fit over protective glasses and face masks.
2| Certified to EN166 and EN170 standards.

Code	Field of use
RBG017	3

Medical lens model 701

1| Class 1 optical quality lens with anti-fog and anti-scratch coating (marked U 1 S N). Adjustable elastic strap.

Code	RBG030

RBJ - Masks

Surgical mask Type IIR

1| Polypropylene mask, 3 layers and 3 folds. Single use.
2| Elastics to adjust to the ears and a mouldable strip for a better nasal support.
3| 100% latex and fibreglass free product.

Code	RBJ007
Size	U
Dimensions	17,5 x 9,5
Colour	Blue
Properties	
First layer	Polypropylene density 25 gr/m3
Second layer	MeltBlown density 25 g/m3
Third layer	Polypropylene density 20 g/m3
Box	50 units
Lot	**40**

RBK - Aprons

Apron PS white

1| Polyethylene (LDPE) apron, 0.02 mm thick, with head opening and fastening straps on the back.
2| For general purpose protection against minor hazards. Single use.
3| 100% Latex free product.

Code	RBK001
Size	U
Dimensions	120 X 78
Thickness	0,02
Colour	White
Box	100 units
Lot	**10**

RBL - Gloves

Silicon semi-glove

Code	Temperature max.	Size
RBL002	250 ºC	Unique

Code	Temperature max.	Size
RBL001	260 ºC	Unique

Code	Temperature max.	Size
RBL004	250 ºC	Unique

RBL - Gloves

Heat-resistant glove

1| Thickness cotton: 850 g/m². For short term manipulations.

Code	Temperature max.	Size
RBL003	100 ºC	Unique

Gloves Thermal Kevlar-400

Code	Temperature max.	Size
RBL505	400 ºC	Unique

Nitrile gloves

NEW

1| 100% Nitrile glove, powder-free. Highly elastic. Ambidextrous.

Code	Size	Colour	Box	Lot
RBL005	S 6/7	Cobalt Blue	100 units	**10**
RBL006	M 7/8	Cobalt Blue	100 units	**10**
RBL007	L 8/9	Cobalt Blue	100 units	**10**
RBL008	XL 9/10	Cobalt Blue	100 units	**10**

RBL - Gloves

Neoprene gloves

NEW

1| Chemical protection glove. BKLOPT - TYPE A.
2| Flocked cotton. Dotted palm and fingers for better grip. Presented in a personalized individual pouch for improved storage.

Code	Length	Thickness	Size
RBL009	330 mm	0,68 mm	8
RBL010	330 mm	0,68 mm	9
RBL011	330 mm	0,68 mm	10

P.V.C gloves. Smooth finish

NEW

1| Chemical protection glove. AKLMPST - TYPE A.
2| Sanitized® treatment for increased glove longevity and better hygiene for your hands. Interlock cotton support.

Code	Length	Size
RBL012	400 mm	9
RBL013	400 mm	10

Special ICE gloves

NOUVEAUTÉ

1| One-piece knitted assembly. 2-layer support: outer one-piece knitted polyamide and warm fleece lining.
2| The unique formula of this coating allows for flexibility and dexterity at temperatures down to -50°C.

Code	Size
RBL014	8
RBL015	9
RBL016	10

RBN - Shoe cover

Disposables shoe cover

1| PE plastic shoe covers. Ambidextrous. 100% Latex free product.

Code	Dimensions	Colour	Box	Lot
RBN001	410 x 155 mm	White	100 units	**10**
RBN002	410 x 155 mm	Green	100 units	**10**
RBN003	410 x 155 mm	Blue	100 units	**10**

Eye wash station

1| Station made of high impact polystyrene and polyethylene bottle.
2| Can be filled with distilled water or other liquid indicated for ophthalmological use.
3| 500 mL bottle is not included (Ref. RDD001) Dimensions 300x300 mm

Code	Description
RDB001	French version
RDB002	English version
RDB003	German version

RDD - Eyewash bottles

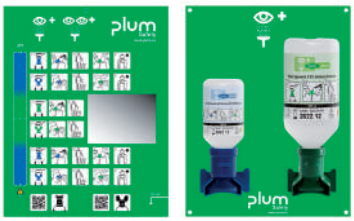
Eye wash bottle, PE

1| Polyethylene bottle. Dimensions 63x73x213 mm
2| Eyecup with lid and head with automatic valve
3| It has a discharge tube.

Code	Description	Lot
RDD001	Eye wash bottle M45	**10**

RDB - Stations

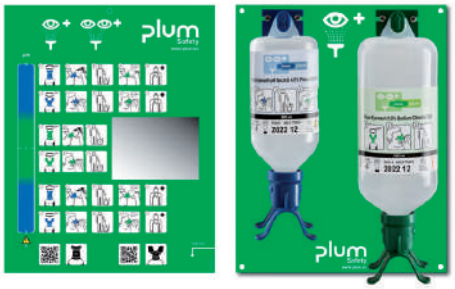
Combined wall stattion



1| Supplied with mirror and pictogram with instructions for use.
2| Wall station with:
- 1 pH neutral solution: for eye injuries caused by acids and alkalis
- 1 saline solution: for eye injuries caused by dust, dirt, splinters...

Code	Solutions	Use
RDB007	1 x 200 mL pH neutral 1 x 500 mL saline	1 eye

Combined wall station



1| Supplied with mirror and pictogram with instructions for use.
2| Wall station with:
- 1 pH neutral solution: for eye injuries caused by acids and alkalis
- 1 saline solution: for eye injuries caused by dust, dirt, splinters...

Code	Solutions	Use
RDB009	1 x 500 mL pH neutral Duo 1 x 1000 mL saline Duo	2 eyes

Combined wall station, dust-proof iBOX

1| Supplied with mirror and pictogram with instructions for use.
2| Wall station with:
- 1 pH neutral solution: for eye injuries caused by acids and alkalis
- 1 saline solution: for eye injuries caused by dust, dirt, splinters...

Code	Solutions	Use
RDB011	1 x 200 mL pH neutral 1 x 500 mL saline	1 eye
RDB012	1 x 500 mL pH neutral Duo 1 x 1000 mL saline Duo	2 eyes

RDD - Eyewash bottles

pH neutral solution

1| 4.9% sterile phosphate solution
2| Indicated to prevent eye injuries and minor skin injuries caused by acids and alkalis.
3| 3 year shelf life, have expiration date.
4| With clear and precise application instructions and pictograms. With CE marking in accordance with medical equipment regulations.

Code	Capacity	Washing T. approx.	Use
RDD006	200 mL	2 min	1 eye
RDD007	500 mL (Duo)	2 min	2 eyes
RDD008	1000 mL	10 min	1 eye

Saline rinsing solution

1| 0.9 % sterile sodium chloride solution.
2| Indicated to prevent eye injuries caused by dust, dirt, metal or wood splinters, solvents or oils.
3| 3 year shelf life, they have an expiry date.
4| With clear and precise application instructions and pictograms. With CE marking in accordance with medical equipment regulations.

Code	Capacity	Washing T. approx.	Use
RDD002	200 mL	2 min	1 eye
RDD003	500 mL	2 min	1 eye
RDD004	1000 mL	10 min	1 eye
RDD005	1000 mL (duo)	10 min	2 eyes

RDB - Stations

Shower and eye washer

1| Large-diameter artichoke, operated by a rigid handle.
2| With pedestal type eye wash, equipped with two sprayers of high flow of low pressure aerated water and manual side opening.

Code	Material
RDB004	stainless steel 304

Eye washer

1| Pedestal type and ground-anchored base. Automatic shut-off valve.
2| With two low-pressure aerated water sprinklers.

Code	Material
RDB006	Corrosion-resistant plastic tray

RDZ - Others

Belt bag for bottles

plum

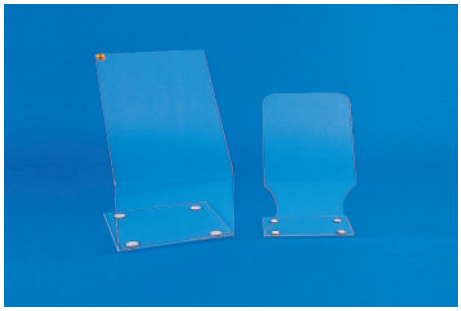
1| Adaptable to the belt or work clothes. Easy to open in case of accident

Code	Use
RDZ001	For bottles of 200 mL

RZB - Table protectors

Safety shield

Kartell



1| Made of polymethyl methacrylate. High stability with non-slip feet.

Code	Dimensions	Protection	Thickness
RZB001	242x365 mm	Hazardous chemicals, aerosols coarse sprays	5 mm
RZB002	305x480 mm	Beta-emitting isotopes, including P32	9 mm

Protection paper

FILTRESRS

1| For protection of work surfaces and the user in case of spillage of aggressive liquids.
2| Weight: 140 g/m²; Thickness: 250 µm.

Code	Dimensions	Nº sheets
RZB013	460x570 mm	50
RZB014	460x570 mm	100

RZB - Table protectors

Protection film

SAINT-GOBAIN

1| Protective film with self-adhesive layers covered with a 25 micron FEP (fluorinated copolymer).

Code	Material	Width	Length
RZB012	Aluminium	635 m	4,6 mm

RZD - Wound treatment

Plaster dispenser

plum

1|A small, modern plater dispenser with a unique design.
2|QuickFix® UNO is available in a glossy white or with a transparent cover. It can be screwed to the wall or fixed with adhesive plasters.
3|Supplied without strips. This allows you to fill the dispenser with the strips of your choice, according to your needs.

Code	Colour	Dimensions
RZD001	Transparent	130x85x35 mm
RZD005	White	130x85x35 mm

T INDUSTRIAL AND TUBING GLASSWARE

TC - Glassware with screw system 422
TCB - Socket with screw 422
TCC - Cone with screw 423
TCD - Sets and accesories 423

TF - Tubes, boro 424
TFB - Tubes borosilicate 424
TFG - Profiled 426

TH - Capillaires 427
THB - Round 427

TJ - Rods 427
TJG - Flat 427
TJB - Round 428
TJJ - Rectangular 428
TJL - Triangular 428

TK - Reactors 428
TKB - Reactors 428

TM - Stoppers 429
TMB - Plate Spherical 429
TMM - Spherical 429

Socket with screw

Female ground joint

Code	Frosted	Lot	dxl
PBQ121	10/19	10	13x115 mm
PBQ122	12/21	10	16x100 mm
PBQ060	14/23	10	18x120 mm
PBQ017	19/26	10	22x125 mm
PBQ062	24/29	10	32x135 mm
PBQ018	29/32	10	32x135 mm
PBQ064	34/35	10	32x135 mm
PBQ124	40/38	10	55x140 mm
PBQ065	45/40	10	32x135 mm
PBQ123	55/44	10	60x140 mm

For other measurements, consult

Code	Frosted	Lot	dxl
PBQ045	14/23	10	18x120 mm
PBQ046	19/26	10	22x150 mm
PBQ047	24/29	10	18x120 mm
PBQ019	29/32	10	34x150 mm
PBQ048	34/35	10	40x150 mm
PBQ020	40/38	10	46x150 mm
PBQ049	45/40	10	18x120 mm

Female ground joint

Code	Frosted	Lot	dxl
PBQ125	10/19	10	8x115 mm
PBQ012	12/21	10	9x120 mm
PBQ013	14/23	10	13x120 mm
PBQ014	19/26	10	16x120 mm
PBQ072	24/29	10	22x135 mm
PBQ073	29/32	10	26x135 mm
PBQ126	34/35	10	30x135 mm
PBQ127	40/38	10	36x90 mm
PBQ128	50/42	10	45x140 mm
PBQ129	55/44	10	50x140 mm

Socket with screw

Cone single

Code	Frosted	Lot	dxl
PBQ052	10/19	10	8x120 mm
PBQ054	14/23	10	13x120 mm
PBQ055	19/26	10	17x150 mm
PBQ056	24/29	10	22x150 mm
PBQ057	29/32	10	26x140 mm
PBQ058	34/35	10	30x150 mm
PBQ015	40/38	10	36x150 mm
PBQ016	45/40	10	40x150 mm

For other measurements, consult

CONE with tip single

Code	Frosted	Lot	dxl
PBQ130	12/21	10	9x120 mm
PBQ131	14/23	10	11x120 mm
PBQ132	19/26	10	16x120 mm
PBQ133	24/29	10	22x135 mm
PBQ134	29/32	10	26x135 mm
PBQ135	34/35	10	30x135 mm
PBQ136	40/38	10	36x140 mm
PBQ137	45/40	10	40x140 mm
PBQ138	50/52	10	45x140 mm
PBQ139	55/44	10	50x140 mm

TCB - Socket with screw

Female ground joint

Code	Frosted	Lot
TCB001	14/23	**10**
TCB002	19/26	**10**
TCB003	24/29	**10**
TCB004	29/32	**10**
TCB005	34/35	**10**
TCB006	45/40	**10**
TCB012	41/25	**10**

TCC - Cone with screw

Code	Frosted	Lot
TCC001	14/23	10
TCC002	19/26	10
TCC003	24/29	10
TCC004	29/32	10
TCC005	34/35	10
TCC006	45/40	10
TCC011	34/35	10
TCC012	45/40	10
TCC020	35/20	10

TCD - Sets and accesories

Safeguarding

Code	Frosted	Lot
TCD001	14/23	10
TCD005	19/26	10
TCD009	24/29	10
TCD013	29/32	10
TCD017	34/35	10
TCD021	45/40	10

Sealing ring, nitrile

Code	Frosted	Lot
TCD002	14/23	10
TCD006	19/26	10
TCD010	24/29	10
TCD014	29/32	10
TCD018	34/35	10
TCD022	45/40	10

TCD - Sets and accesories

Screw cap, resin

Code	Frosted	Lot
TCD003	14/23	10
TCD007	19/26	10
TCD011	24/29	10
TCD015	29/32	10
TCD019	34/35	10
TCD023	45/40	10

Kit of accessories

Code	Frosted	Lot
TCD004	14/23	10
TCD008	19/26	10
TCD012	24/29	10
TCD016	29/32	10
TCD020	34/35	10
TCD024	45/40	10

Socket with screw

Cup joint and male spherical joint

1| Borosilicate glass. In accordance with DIN 12264 standard.

Code	Frosted	Spherical joint		Length	Lot
Female					
PQB174	13/5	S13		100 mm	10
PQB175	19/9	S19		100 mm	10
PQB176	23/15	S29		100 mm	10
PQB177	35/19	S35		100 mm	10
PQB178	41/27	S41		100 mm	10
Male					
PQB180	13/5	S13	5	100 mm	10
PQB181	19/9	S19	9	100 mm	10
PQB182	23/15	S29	15	100 mm	10
PQB183	35/19	S35	19	100 mm	10
PQB184	41/27	S41	27	100 mm	10

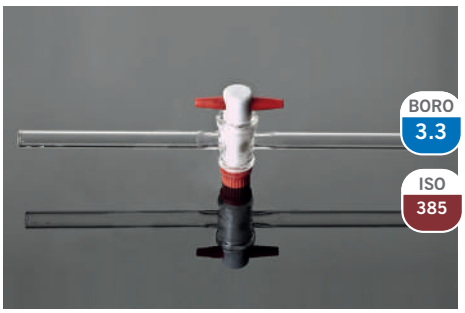
GL

Tube with GL thread

Code	GL	Lot
BGG019	14	**10**
BGG018	18	**10**
BGG020	25	**10**
BGG021	32	**10**
BGG024	45	**10**

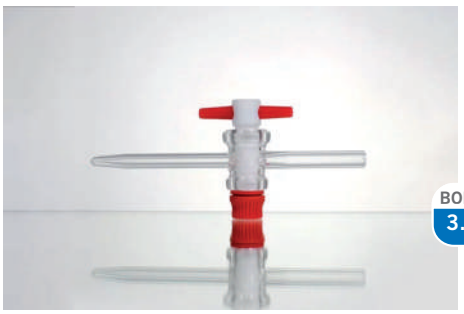
Type Mohr, accessories

Straight valve, PTFE key



Code	Track	Upper Ø	Lower stem Ø
DNJ001	1.5	12.5 mm	8 mm
DNJ002	2.5	14.5 mm	10 mm
DNJ003	4	14.5 mm	10 mm
DNJ004	6	18.8 mm	12 mm

Valve for burettes, PTFE key



Code	Track	Upper Ø
DNJ022	2,5	12.5 mm

** Other sizes available upon request*

Type Mohr, accessories

Straight valve, glass key

Code	Track	Upper Ø	Ø tige
DNJ503	2,5	12.5 mm	8 mm
DNJ504	4	14.5 mm	10 mm
DNJ505	6	18.8 mm	13 mm

Other sizes available upon request

TFB - Round

1 | Length 1500 mm

Code	Diameter (mm)	Thickness (mm)	Weight 1 pc (g)	Number pcs box	Lot	Weight of pallet (kg)
TFB001	**4** (±0.15)	0.8 (±0.04)	27	400	10,80	453,60
TFB002	**5** (±0.15)	0.8 (±0.04)	35	256	9	441
TFB003	**6** (±0.15)	1 (±0.04)	53	170	9	441
TFB004	(±0.15)	1.5 (±0.04)	71	170	12,10	423,50
TFB005	**7** (±0.15)	1 (±0.04)	63	121	7,6	423,60
TFB006	(±0.15)	1.5 (±0.10)	87	121	10,5	441
TFB007	**8** (±0.15)	1 (±0. 04)	74	100	7,4	414,40
TFB008	(±0.15)	1.5 (±0.10)	102	100	10,2	428,40
TFB009	**9** (±0.15)	1 (±0.04)	84	81	6,8	380,80
TFB010	(±0.15)	1.5 (±0.10)	118	81	9,6	403,20
TFB011	**10** (±0.15)	1 (±0.04)	95	64	6,1	341,60
TFB012	(±0.15)	1.5 (±0.10)	134	64	8,6	421,60
TFB013	(±0.15)	2.2 (±0.15)	180	64	11,5	402,50
TFB014	(±0.30)	3.5 (±0.25)	239	64	15,3	428,40
TFB015	**11** (±0.18)	1 (±0.04)	105	121	12,7	444,50
TFB016	(±0.18)	1.5 (±0.10)	150	121	18,2	455
TFB017	(±0.18)	2.2 (±0.15)	203	50	10,2	428,40
TFB018	**12** (±0.18)	1 (±0.04)	116	100	11,6	406
TFB019	(±0.18)	1.5 (±0.10)	166	100	16,6	415
TFB020	(±0.18)	2.2 (±0.15)	227	49	11,1	466,20
TFB021	(±0.18)	3.5 (±0.25)	313	49	15,3	428,40
TFB022	**13** (±0.18)	1 (±0.04)	126	81	10,2	357
TFB023	(±0.18)	1.5 (±0.10)	181	81	14,7	441
TFB024	(±0.18)	2.2 (±0.15)	250	81	20,3	406
TFB025	**14** (±0.18)	1 (±0.04)	137	64	8,8	308
TFB026	(±0.18)	1.5 (±0.10)	197	64	12,6	441
TFB027	(±0.18)	2.2 (±0.10)	273	64	17,5	437,50
TFB028	**15** (±0.18)	1.2 (±0.05)	174	49	8,5	297,50
TFB029	(±0.18)	1.8 (±0.10)	250	49	12,3	430,50
TFB030	(±0.18)	2.5 (±0.15)	328	49	16,1	402,50

TFB - Round

1 | Length 1500 mm

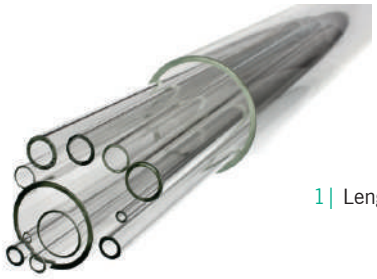
Code	Diameter (mm)	Thickness (mm)	Weight 1 pc (g)	Number pcs box	Lot	Weight of pallet ()
TFB031	**16** (±0.18)	1.2(±0.05)	187	49	9,2	322
TFB032	(±0.18)	1.8(±0.10)	269	49	13,2	462
TFB033	(±0.18)	2.5(±0.15)	355	49	17,4	435
TFB034	(±0.18)	3.5(±0.40)	460	49	22,5	450
TFB035	**17** (±0.18)	1.2 (±0.05)	199	36	7,2	252
TFB036	(±0.18)	1.8 (±0.10)	288	36	10,4	364
TFB037	(±0.18)	2.5 (±0.15)	381	36	13,7	411
TFB038	**18** (±0.18)	1.2 (±0.05)	212	36	7,6	266
TFB039	(±0.18)	1.8 (±0.10)	306	36	11	385
TFB040	(±0.18)	2.5 (±0.15)	407	36	14,7	441
TFB041	**19** (±0.18)	1.2 (±0.05)	224	64	14,3	286
TFB042	(±0.18)	1.8 (±0.10)	325	64	20,8	416
TFB043	(±0.18)	2.5 (±0.15)	433	36	15,6	468
TFB044	**20** (±0.25)	1.2 (±0.05)	237	49	11,6	278,40
TFB045	(±0.25)	1.8 (±0.10)	344	49	16,9	405,60
TFB046	(±0.25)	2.5 (±0.15)	460	49	22,5	450
TFB047	(±0.30)	4 (±0.40)	673	36	24,2	484
TFB048	**22** (±0.25)	1.2 (±0.05)	262	36	9,4	225,60
TFB049	(±0.25)	1.8 (±0.10)	382	36	13,8	331,20
TFB050	(±0.25)	2.5 (±0.15)	512	36	18,4	441,60
TFB051	**24** (±0.25)	1.2 (±0.05)	288	36	10,4	249,60
TFB052	(±0.25)	1.8 (±0.10)	420	36	15,1	362,40
TFB053	(±0.25)	2.5 (±0.15)	565	36	20,3	406
TFB054	(±0.30)	4 (±0.40)	841	25	21	420
TFB055	**26** (±0.25)	1.4 (±0.05)	362	36	13	260
TFB056	(±0.25)	2 (±0.10)	504	36	18,1	362
TFB057	(±0.25)	2.8 (±0.15)	683	36	24,6	393,60
TFB058	**28** (±0.25)	1.4 (±0.05)	391	25	9,8	235,20
TFB059	(±0.25)	2 (±0.10)	546	25	13,7	328,80
TFB060	(±0.25)	2.8 (±0.15)	741	25	18,5	444
TFB061	(±0.30)	4 (±0.40)	1006	16	16,1	402,50
TFB062	**30** (±0.35)	1.4 (±0.10)	421	36	15,2	228
TFB063	(±0.35)	2 (±0.15)	588	36	21,2	318
TFB064	(±0.35)	2.8 (±0.20)	800	25	20	400
TFB065	**32** (±0.35)	1.4 (±0.10)	450	25	11,3	226
TFB066	(±0.35)	2 (±0.15)	631	25	15,8	316
TFB067	(±0.35)	2.8 (±0.20)	859	25	21,5	430
TFB068	(±0.35)	4 (±0.40)	1175	16	18,8	658
TFB069	**33** (±0.35)	2 (±0.15)	652	27	17,6	281,60
TFB070	**34** (±0.35)	1.4 (±0.10)	480	16	7,7	184,80
TFB071	(±0.35)	2 (±0.15)	673	16	10,8	259,20
TFB072	(±0.35)	2.80 (±0.20)	918	16	14,7	352,80
TFB073	**36** (±0.40)	1.4 (±0.10)	509	16	8,1	194,40
TFB074	(±0.40)	2 (±0.15)	715	16	11,4	273,60
TFB075	(±0.40)	2.8 (±0.20)	977	16	15,6	374,40
TFB076	(±0.40)	4 (±0.40)	1345	16	21,5	430
TFB077	**38** (±0.40)	1.4 (±0.10)	538	16	8,6	172
TFB078	(±0.40)	2 (±0.15)	757	16	12,1	242
TFB079	(±0.40)	2.80 (±0.20)	1036	16	16,6	332
TFB080	**40** (±0.55)	1.6 (±0.10)	646	16	10,3	206
TFB081	(±0.55)	2.3 (±0.20)	911	16	14,6	292
TFB082	(±0.55)	3.2 (±0.30)	1237	16	19,8	396
TFB083	(±0.55)	5 (±0.40)	1845	9	16,6	498

TFB - Round

1 | Length 1500 mm

Code	Diameter (mm)	Thickness (mm)	Weight 1 pc (g)	Number pcs box	Lot	Weight of pallet ()
TFB084	**42** (±0.55)	1.6 (±0.10)	679	16	10,9	218
TFB085	(±0.55)	2.3 (±0.20)	960	16	15,4	308
TFB086	(±0.55)	3.2 (±0.30)	1305	16	20,9	418
TFB087	**44** (±0.55)	1.6 (±0.10)	713	16	11,4	171
TFB088	(±0.55)	2.3 (±0.20)	1008	16	16,1	241,50
TFB089	(±0.55)	3.2 (±0.30)	1372	16	22	330
TFB090	(±0.55)	5 (±0.40)	1867	9	16,8	420
TFB091	**45** (±0.65)	5 (±0.40)	2111	9	19	456
TFB092	**46** (±0.65)	1.6 (±0.10)	747	16	12	180
TFB093	(±0.65)	2.3 (±0.20)	1056	16	16,9	253,50
TFB094	(±0.65)	3.2 (±0.30)	1439	16	23	345
TFB095	**48** (±0.65)	1.6 (±0.10)	780	9	7	168
TFB096	(±0.65)	2.3 (±0.20)	1105	9	9,9	237,60
TFB097	(±0.65)	3.2 (±0.20)	1507	9	13,6	326,40
TFB098	**50** (±0.70)	1.8 (±0.15)	912	12	10,9	174,40
TFB099	(±0.70)	2.5 (±0.20)	1248	12	15	240
TFB100	(±0.70)	3.5 (±0.30)	1710	9	15,4	369,60
TFB101	(±0.70)	5 (±0.40)	2364	9	21,3	426
TFB103	**52** (±0.70)	1.8 (±0.15)	950	12	11,4	182,40
TFB104	(±0.70)	2.5 (±0.20)	1300	12	15,6	249,60
TFB105	(±0.70)	3.5 (±0.30)	1784	9	16,1	322
TFB107	**54** (±0.70)	1.8 (±0.15)	987	9	8,9	178
TFB108	(±0.70)	2.5 (±0.20)	1353	9	12,2	244
TFB109	(±0.70)	3.5 (±0.30)	1857	9	16,7	334
TFB111	**55** (±0.70)	5.0 (±0.40)	2627	9	23,6	472
TFB112	**56** (±0.70)	1.8 (±0.15)	1025	12	12,3	172,20
TFB113	(±0.70)	2.5 (±0.20)	1406	12	16,9	236,60
TFB114	(±0.70)	3.5 (±0.30)	1931	9	17,4	348
TFB116	**58** (±0.70)	1.8 (±0.15)	1063	12	12,8	179,20
TFB117	(±0.70)	2.5 (±0.20)	1458	12	17,5	245
TFB118	(±0.70)	3.5 (±0.30)	2005	4	8	280
TFB119	(±0.70)	5.0 (±0.40)	2794	4	11,2	392
TFB120	**60** (±0.80)	2.2 (±0.20)	1336	12	16	224
TFB121	(±0.80)	3.2 (±0.25)	1910	12	22,9	320,60
TFB122	(±0.80)	4.2 (±0.40)	2463	4	9,9	346,50
TFB123	(±0.80)	5 (±0.20)	2890	4	11,6	406
TFB124	(±0.80)	7 (±0.60)	3912	4	15,6	546
TFB125	(±0.80)	9 (±0.70)	4840	4	19,4	679
TFB126	**65** (±0.90)	2.2 (±0.20)	1452	8	11,6	162,40
TFB127	(±0.90)	3.2 (±0.25)	2078	8	16,6	232,40
TFB128	(±0.90)	4.2 (±0.40)	2683	8	21,5	301
TFB129	(±0.90)	5.0 (±0.40)	3153	4	12,6	441
TFB130	**70** (±0.90)	2.2 (±0.20)	1567	8	12,5	150
TFB131	(±0.90)	3.2 (±0.25)	2246	8	18	216
TFB132	(±0.90)	4.2 (±0.40)	2904	8	23,2	278,40
TFB133	(±0.90)	5 (±0.40)	3415	4	13,7	328,80
TFB134	(±0.90)	7 (±0.60)	4650	4	18,6	446,40
TFB135	(±0.90)	9 (±0.70)	5788	4	23,2	556,80
TFB136	**75** (±0.90)	2.2 (±0.20)	1683	4	6,7	160,80
TFB137	(±0.90)	3.2 (±0.25)	2414	4	9,7	232,80
TFB138	(±0.90)	4.2 (±0.40)	3125	4	12,5	300
TFB139	(±0.90)	5.0 (±0.40)	3678	4	14,7	352,80
TFB140	**80** (±1.20)	2.5 (±0.20)	2036	4	8,1	162
TFB141	(±1.20)	3.5 (±0.30)	2814	4	11,3	226
TFB142	(±1.20)	5 (±0.50)	3941	4	15,8	316

TFB - Round



1 | Length 1500 mm

Code	Diameter (mm)	Thickness (mm)	Weight 1 pc (g)	Number pcs box	Lot	Weight of pallet ()
TFB144	**85** (±1.20)	2.5 (±0.20)	2167	4	8,7	174
TFB145	(±1.20)	3.5 (±0.30)	2998	4	12	240
TFB146	(±1.20)	5 (±0.50)	4203	4	16,8	336
TFB147	**90** (±1.20)	2.5 (±0.20)	2299	4	9,2	138
TFB148	(±1.20)	3.5 (±0.30)	3181	4	12,7	190,50
TFB149	(±1.20)	5 (±0.50)	4466	4	17,9	268,50
TFB150	(±1.20)	7 (±0.70)	6126	4	24,5	367,50
TFB151	(±1.20)	9 (±0.80)	7686	4	30,7	460,50
TFB152	**95** (±1.5)	2.5 (±0.20)	2430	4	9,7	145,50
TFB153	(±1.5)	3.5 (±0.30)	3365	4	13,5	202,50
TFB154	(±1.5)	5 (±0.50)	4729	4	18,9	283,50
TFB155	**100** (±1.5)	2.5 (±0.20)	2561	3	7,7	123,20
TFB156	(±1.5)	3 (±0.20)	3058	3	9,2	147,20
TFB157	(±1.5)	3.5 (±0.30)	3549	3	10,6	169,60
TFB158	(±1.5)	5 (±0.50)	4992	3	15	240
TFB159	(±1.5)	7 (±0.70)	6864	3	20,6	329,60
TFB160	(±1.5)	9 (±0.80)	8635	3	25,9	414,40
TFB161	**105** (±1.5)	3 (±0.30)	3216	3	9,6	153,60
TFB162	(±1.5)	5 (±0.50)	5254	3	15,8	252,80
TFB163	**110** (±1.5)	3 (±0.30)	3373	3	10,1	141,40
TFB164	(±1.5)	5 (±0.50)	5517	3	16,6	232,40
TFB165	(±1.5)	7 (±0.80)	7602	3	22,8	319,20
TFB166	**115** (±1.5)	3 (±0.30)	3531	3	10,6	148,40
TFB167	(±1.5)	5 (±0.50)	5780	3	17,3	242,50
TFB168	(±1.5)	7 (±0.80)	7971	3	23,9	334,60
TFB169	**120** (±1.5)	3 (±0.40)	3689	3	11,1	155,40
TFB170	(±1.5)	5 (±0.60)	6042	3	18,1	253,43
TFB171	(±1.5)	7 (±0.80)	8340	3	25	350
TFB172	(±1.5)	9 (±0.90)	10533	1	10,5	367,50
TFB173	**125** (±1.5)	3 (±0.40)	3846	3	11,5	161
TFB174	(±1.5)	5 (±0.60)	6305	3	18,9	264,60
TFB175	(±1.5)	9 (±0.90)	11008	1	11	385
TFB176	**130** (±1.6)	3 (±0.50)	4004	2	8	112
TFB177	(±1.6)	5 (±0.60)	6568	2	13,1	183,40
TFB179	(±1.6)	9 (±0.90)	11482	1	11,5	402,50
TFB180	**135** (±1.6)	3 (±0.50)	4161	2	8,3	116,20
TFB181	(±1.6)	5 (±0.60)	6831	2	13,7	191,80
TFB182	(±1.6)	7 (±0.90)	947	2	18,9	264,60
TFB183	**140** (±1.7)	3 (±0.50)	4319	2	8,6	103,20
TFB184	(±1.7)	5 (±0.60)	7093	2	14,2	170,40
TFB186	**145** (±1.7)	3 (±0.50)	4477	2	9	108
TFB187	(±1.7)	5 (±0.60)	7356	2	14,7	176,40
TFB188	**150** (±1.8)	3 (±0.50)	4634	1	4,6	110,40
TFB189	(±1.8)	5 (±0.60)	7619	1	7,6	182,40
TFB190	(±1.8)	7 (±0.90)	10554	1	10,6	254,40
TFB191	(±1.8)	9 (±1.00)	13380	1	13,4	321,60
TFB192	**155** (±2.0)	5 (±0.70)	7881	1	7,9	221,20
TFB193	**160** (±2.0)	5 (±0.70)	8144	1	8,1	194,40
TFB194	(±2.0)	7 (±1.00)	11292	1	11,3	271,20
TFB195	**165** (±1.8)	5 (±0.70)	8407	1	8,4	168
TFB196	(±1.8)	7 (±1.00)	11661	1	11,7	234
TFB197	**170** (±1.8)	5 (±0.70)	8699	1	8,7	174
TFB198	(±1.8)	7 (±1.00)	12030	1	8,7	240
TFB199	(±1.8)	9 (±1.10)	15278	1	15,3	306

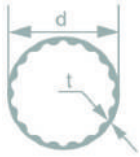
TFB - Round

1 | Length 1500 mm

Code	Diameter (mm)	Thickness (mm)	Weight 1 pc (g)	Number pcs box	Lot	Weight of pallet ()
TFB200	**180** (±2.0)	5 (±0.70)	9226	1	9,2	138
TFB201	(±2.0)	7 (±1.00)	12768	1	12,8	192
TFB202	(±2.0)	9 (±1.2)	16227	1	16,2	243
TFB203	**190** (±2.1)	5 (±0.50)	9753	1	9,80	147
TFB204	(±2.1)	7 (±0.80)	13506	1	13,50	202,50
TFB205	**200** (±2.4)	5 (±0.80)	10280	1	10,3	123,60
TFB206	(±2.4)	7 (±1.0)	14244	1	14,2	170,40
TFB207	**215** (±2.5)	7 (±1.1)	15377	1	15,40	184,80
TFB208	**225** (±2.7)	7 (±1.1)	16116	1	16,1	193,20
TFB209	**240** (±2.9)	7 (±1.1)	17255	1	17,20	206,40
TFB210	**250** (±3.0)	5 (±0.80)	12937	1	12,90	154,80

TFG - Profiled

Profiled tube with internal grooves



d: Diameter
t: Thickness

1 | Length 1500 mm

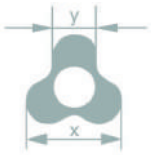
Code	Diameter (mm)	Thickness** (mm)	Weight 1 pc (g)	Number pcs box	Lot	Weight of pallet ()
TFG007	11 (±0.4)	1.0 (±0.15)	127	121	15,40	15,40
TFG008	14 (±0.4)	1.0 (±0.15)	150	64	9,60	336
TFG001	15 (±0.4)	1.0 (±0.15)	179	49	8,80	308
TFG030	22 (±0.5)	1.0 (±0.15)	282	36	10,20	244,80
TFG031	26 (±0.5)	1.5 (±0.15)	466	36	16,80	336
TFG009	28 (±0.5)	2.0 (±0.20)	546	25	13,70	328,80
TFG002	30 (±0.8)	2.0 (±0.20)	703	36	25,30	379,50
TFG010	34 (±0.8)	2.0 (±0.30)	*780*	16	12,50	300
TFG011	36 (±0.8)	2.0 (±0.25)	*835*	16	13,40	321,60
TFG012	38 (±0.8)	2.0 (±0.25)	*900*	16	14,40	288
TFG003*	40 (±1.5)	2.0 (±0.30)	985	16	15,80	316
TFG004*	50 (±1.5)	2.5 (±0.30)	1516	12	18,20	291,20
TFG005*	60 (±1.5)	2.3 (±0.30)	1771	12	21,30	298,20
TFG013*	70 (±1.8)	2.8 (±0.30)	*2500*	8	20,00	240
TFG006*	80 (±1.8)	3.2 (±0.40)	3432	4	13,70	274
TFG014*	100 (±1.8)	3.0 (±0.40)	*4200*	3	12,60	201,60
TFG015*	120 (±1.8)	4 .0 (±0.40)	*6000*	*6*	18,00	252

** Cooling in a belt furnace.*

*** Wall thickness in the thinnest part.*

TFG - Profiled

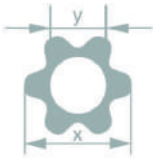
Inside profile tubing



y: Diameter interne
x: Diameter externe

Code	Ø externe X (mm)	Ø interne Y (mm)	Weight 1 pc (g)	Number pcs box	Lot Kg	Weight of pallet (Kg)
TFG020	15 (±0.1)	7.0 (±0.5)	310	74	22,90	458
TFG016	19 (±1.0)	9.5 (±1.0)	560	36	20,20	404
TFG017	24 (±1.0)	10.5 (±1.0)	877	25	21,90	438

Profile tubing, 3 clover leafs



y: Diameter interne
x: Diameter externe

Code	Ø externe X (mm)	Ø interne Y (mm)	Weight 1 pc (g)	Number pcs box	Lot Kg	Weight of pallet (Kg)
TFG018	9 (±0.5)	4.0 (±0.5)	123	168	20,40	414
TFG019	10.0 (±0.5)	4.5 (±0.5)	153	126	19,30	386
TFG022	11.0 (±0.5)	5.0 (±0.5)	185	22,40	22,80	448
TFG023	12.0 (±0.5)	5.3 (±0.5)	219	100	21,90	438
TFG024	13.0 (±0.5)	5.5 (±0.5)	250	81	20,30	406
TFG025	14.0 (±0.5)	6.2 (±0.5)	300	64	19,20	384
TFG026	15.0 (±0.5)	6.5 (±0.5)	340	49	16,70	417,50
TFG027	16.0 (±0.5)	7.1 (±0.5)	394	49	19,30	386
TFG028	17.0 (±0.5)	7.0 (±0.5)	462	36	16,60	415
TFG029	18.0 (±0.5)	7.8 (±0.5)	478	36	17,20	430
TFG032	19.0 (±0.5)	8.5 (±0.5)	544	36	19,60	392
TFG033	20.0 (±0.5)	8.2 (±0.5)	628	36	22,60	452
TFG034	22.0 (±0.5)	11.5 (±0.5)	635	36	22,90	458
TFG035	24.0 (±0.5)	12.0 (±0.5)	793	25	19,40	396
TFG036	26.0 (±0.8)	16.0 (±0.8)	660	25	16,50	330
TFG037	28.0 (±0.6)	17.5 (±0.5)	920	16	14,70	367,50
TFG038	30.0 (±0.6)	18.0 (±0.5)	1045	16	16,70	471,50
TFG021	32.0 (±0.6)	19.0 (±0.5)	1160	16	18,60	372
TFG039	35.0 (±1.5)	21.0 (±1.5)	1480	16	23,70	474
TFG040	40.0 (±1.5)	24.0 (±15)	11840	9	6,60	498

4 grooves

Plate with 6 grooves

6-point star

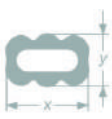
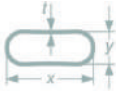


Plate with grooves

8 petals



Oval tube

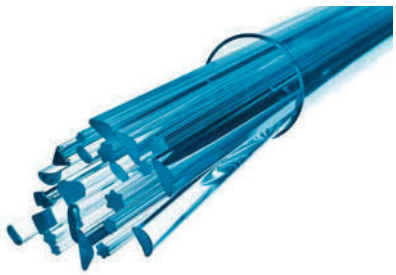
Triangular tube

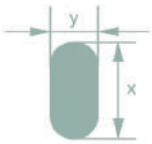
THB - Round

1 | Length 1500 mm

Code	Ø externe d1 (mm)	Ø interne d2 (mm)	Weight 1 pc (g)	Number pcs box	Lot	Weight of pallet ()
THB001	**4** (±0,2)	0.8 (±0.08)	40	400	16	448
THB003	**5** (±0,2)	0.5 (±0,08)	65	256	16,6	464,80
THB004	(±0,2)	0,6 (±0,08)	65	256	16,6	464,80
THB005	(±0,2)	0,8 (±0,08)	64	256	16,4	459,20
THB007	(±0,2)	1,2 (±0,08)	62	256	15,9	445,20
THB008	(±0,2)	1,5 (±0,10)	60	256	15,4	431,20
THB009	**6** (±0,2)	0,4 (±0,08)	94	170	16	448
THB010	(±0,2)	0.8 (±0,08)	93	170	15,1	442,40
THB011	(±0,2)	1.0 (±0,08)	92	170	15,6	436,80
THB012	(±0,2)	1.2 (±0,08)	91	170	15,5	434
THB013	(±0,2)	1,5 (±0,10)	89	170	15,1	422,80
THB014	(±0,2)	1,7 (±0,10)	87	170	14,8	414
THB015	(±0,2)	2,0 (±0,10)	84	170	14,3	400,40
THB017	(±0,2)	2.5 (±0,10)	78	170	13,3	372,40
THB018	(±0,2)	2,7 (±0,10)	75	170	12,8	358,40
THB022	**7** (±0,25)	1,7 (±0,10)	121	121	14,6	408,80
THB028	**8** (±0,25)	1 (±0,08)	166	100	16,6	464,80
THB029	(±0,25)	1,5 (±0,10)	162	100	16,2	453,60
THB033	(±0,25)	2,0 (±0,10)	158	100	15,8	442,40
THB034	(±0,25)	2,2 (±0,10)	155	100	15,5	434
THB035	(±0,25)	2,5 (±0,10)	152	100	15,2	425,60
THB037	(±0,25)	3,0 (±0,10)	144	100	14,4	403,20
THB038	(±0,25)	3,5 (±0,10)	136	100	13,6	380,80
THB039	**9** (±0,25)	3 (±0,10)	189	81	15,3	428,40
THB041	**10** (±0,25)	1,5 (±0,10)	257	64	16,4	459,20
THB050	(±0,25)	2,0 (±0,10)	252	64	16,1	450,80

TJG - Flat





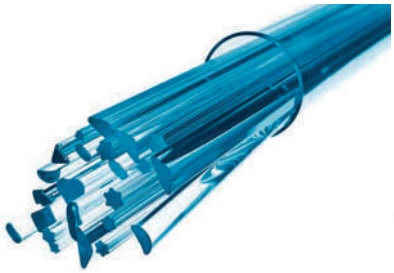
x: Diameter
y: Diameter

Code	Diameter d1 (mm)	Diameter d1 (mm)	Weight 1 pc (g)	Number pcs box	Lot Kg	Weight of pallet (Kg)
TJG006	5.0 (±0,5)	2.6 (±0,5)	36	390	14.00	392
TJG007	6.0 (±0,5)	3.2 (±0,5)	52	280	14.60	408,80
TJG008	7.0 (±0,5)	3.7 (±0,5)	72	220	15.80	442,40
TJG009	8.0 (±0,5)	4.2 (±0,5)	95	160	15.20	425,60
TJG010	9.0 (±0,5)	4.8 (±0,5)	122	120	14.60	408,80
TJG011	10.0 (±0,5)	4.5 (±0,5)	130	112	14.60	408,80
TJG012	11.0 (±0,5)	5.0 (±0,5)	155	105	16.30	456,40
TJG001	12.0 (±0.5)	5.4 (±0.5)	182	84	15,30	428,40
TJG013	13.0 (±0,5)	5.8 (±0,5)	213	78	16.60	464,80
TJG002	14.0 (±0.5)	6.3 (±0.5)	250	60	15.00	420
TJG003	15.0 (±0.5)	6.7 (±0.5)	288	55	15.80	442,40
TJG004	16.0 (±0.5)	7.1 (±0.5)	323	50	16.20	453,60
TJG014	18.0 (±0,5)	8.0 (±0,5)	408	40	16.30	456,40
TJG005	20.0 (±0.6)	8.0 (± 0.5)	461	40	18.40	515,20

TJB - Round

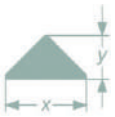
Code	Diameter d1 (mm)	Weight 1 pc (g)	Number pcs box	Lot Kg	Weight of pallet (Kg)
TJB001	3 (±0,15)	24	700	16,8	470,40
TJB002	4	42	400	16,8	470,40
TJB003	5 (±0,15)	66	256	16,9	473,20
TJB004	6 (±0,15)	95	170	16,2	453,60
TJB005	7 (±0,15)	129	121	15,6	436,80
TJB006	8 (±0,25)	168	100	16,8	470,40
TJB007	9 (±0,25)	213	81	17,3	484,40
TJB008	10 (±0,25)	263	64	16,8	470,40
TJB009	11 (±0,25)	318	50	15,9	445,20
TJB010	12 (±0,25)	378	49	18,5	388,50
TJB011	13 (±0,35)	444	36	16	448
TJB012	14 (±0,35)	515	25	12,9	451,50
TJB013	15 (±0,35)	591	25	14,8	414,40
TJB014	16 (±0,35)	673	16	10,8	378
TJB015	18 (±0,45)	851	16	13,6	380,80
TJB016	20 (±0,45)	1051	16	16,8	470,40
TJB017	22 (±0,45)	1272	9	11,4	399
TJB018	24 (±0,50)	1513	9	13,6	380,80
TJB020	28 (±0,90)	2060	4	8,2	295,20
TJB021	30 (±0,90)	2364	4	9,5	342
TJB022	32 (±1,00)	2690	4	10,8	378
TJB025	38 (±1,70)	3037	4	15,2	423,50

TJL - Triangular



Code	Diameter d1 (mm)	Weight 1 pc (g)	Number pcs box	Lot Kg	Weight of pallet (Kg)
TJL001	6x6x6 (±0,4)	63	180	11,30	395,50
TJL002	7x7x7 (±0.4)	86	130	11,20	392
TJL003	8x8x8 (±0.4)	111	100	11,10	388,50

Other models, on request



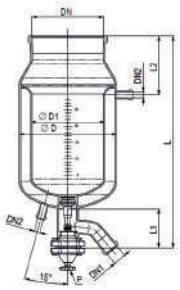
Flat triangular rod

Zigzag rod

Triangular rod

TKB - Reactors

Jacketed PZ

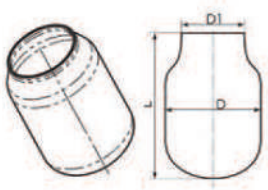


15/30/100 liters on request

Code	Volume	DN PZ	DN1 KZA	DN2 KZA	D mm	D1 mm	L mm	L1 mm	L2 mm
TKB001	50 L	300	50	25	486	415	915	165	265
		400	50	25	465	415	800	165	100

PZ = Ground flat bottom KZA = Ground round bottom RK = Ground conical bottom

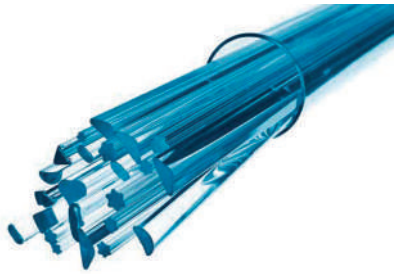
Reactor draft

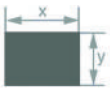


Code	Ø ext. (mm)	For DN	Length (mm)
TKB008	315	215	500
TKB009	415	315	610

** Other models on request*

TJJ - Rectangular



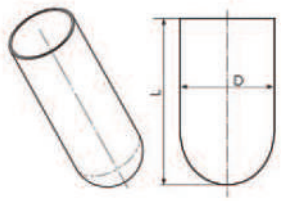


x: Diameter
y: Diameter

Code	Diameter X (mm)	Diameter Y (mm)	Weight 1 pc (g)	Number pcs box	Lot Kg	Weight of pallet (Kg)
TJJ001	5,4 (±0,5)	4 mm (±0,5)	71	280	19,9	417,90
TJJ002	8,0 (±0,5)	6 mm (±0,5)	153	64	9,8	411,60
TJJ003	9,4 (±0,5)	7 mm (±0,5)	211	63	13,3	558,60
TJJ004	10.8 (±0,5)	8 mm (±0,5)	278	49	13,60	380,80
TJJ005	12.0 (±0,5)	9 mm (±0,5)	332	49	16,30	456,40
TJJ006	13.2 (±0,5)	10 mm (±0,5)	413	35	14,5	406
TJJ007	14.6 (±0,5)	11 mm (±0,5)	506	30	15,20	425,60
TJJ008	16.0 (±0,5)	12 mm (±0,5)	607	24	14,60	408,80

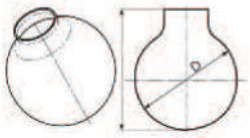
TKB - Reactors

Draft of cylindrical reactor



Code	Ø ext. (mm)	For DN	Length (mm)
TKB013	165	150	550
TKB004	215	200	600
TKB005	315	300	650
TKB006	415	400	650

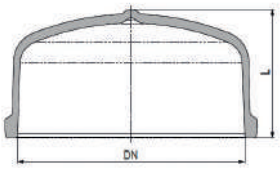
Draft of flask



Code	Volume (L)	Ø ext. (mm)	Length (mm)
TKB011	20	350	410
TKB012	50	490	560
TKB021	100	610	670

TMB - Plate Spherical

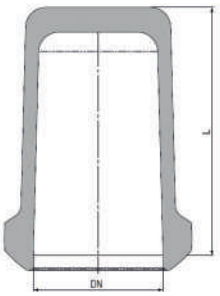
Bouchon plan type PZ



Code	Type	Length
TMB001	PZ DN 15	50 mm
TMB002	PZ DN 25	100 mm
TMB024	PZ DN 40	100 mm
TMB004	PZ DN 50	100 mm
TMB005	PZ DN 80	110 mm
TMB006	PZ DN 100	100 mm
TMB007	PZ DN 150	100 mm
TMB008	PZ DN 200	100 mm
TMB010	PZ DN 300	140 mm
TMB030	PZ DN 600	240 mm

TMM - Spherical

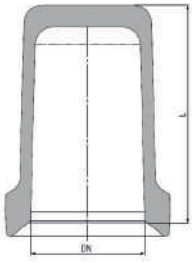
Blind lid



Code	Type	Length
TMM001	KZA DN15	50 mm
TMM002	KZA DN25	75 mm
TMM003	KZA DN40	100 mm
TMM004	KZA DN50	100 mm
TMM005	KZA DN80	110 mm
TMM010	KZA DN300	170 mm

KZA = Ground round bottom / DN100/150/200 on request

Female



Code	Type	Length
TMM011	KZB DN15	50 mm
TMM012	KZB DN25	75 mm
TMM013	KZB DN40	100 mm
TMM014	KZB DN50	100 mm
TMM015	KZB DN80	110 mm
TMM020	KZB DN300	170 mm

**DN100/150/200 on request*

Flat cap 9° with shoulder RK

Code	Type	Length
TMB013	DN15	-
TMB014	DN25	-
TMB016	DN50	110 mm
TMB017	DN80	125 mm
TMB018	DN100	110 mm
TMB019	DN150	115 mm
TMB021	DN225	-
TMB022	DN300	200 mm

For more information
see complete catalogs
INDUSTRIAL EQUIPMENT
SIMAX®
Glass that Lasts

KAVALIER
TUBING, RODS, CAPILLARIES
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Z | OTHERS

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ZCC - Ultrasonic bath

Digital ultrasonic bath without heating

1| Includes lid and basket with handles for a better grip.
2| AISI304 stainless steel water resistant tank.
3| The bath does not have external handles due to its small size and easy handling.

Code	ZCC015
Frequency	42 KHz
Tank	AISI304 stainless steel
Capacity	0.8 L
Time control	0-30 minuts, 18 cleaning time optional, digital contr ol
Power supply	AC 220-240,50/60 HZ
Ultrasonic power	35 W
Dimensions	
Tank	168×94×67 mm
Overall	194×120×124 mm
Weight	1.23 kg

Digital with heating

1| Includes lid and basket with handles for a better grip. AISI304 stainless steel water resistant tank. With external grips for better handling of the bath.

Code	ZCC016	ZCC017	ZCC019	ZCC020	ZCC021	ZCC018	ZCC022
Capacity (L)	2	3	6	10	15	22	30
Frequency (Hz)	40	40	40	40	40	40	40
Drainage tap	No	No	Yes	Yes	Yes	Yes	Yes
Tank size (LxWxH)	150x140x100	240x140x100	300x155x150	300x240x150	330x300x150	500x300x150	500x300x200
Unit size (LxWxH)	190x170x195	270x160x220	325x180x280	330x270x280	360x330x280	530x330x280	530x330x330
Heating power (W)	100	100	300	400	400	500	500
Ultrasonic power (W)	60	120	180	240	360	480	600
Power supply	220 VAC 50 Hz						
Temperature range	0-80ºC (from ambient temperature to 80ºC) 1ºC in 1ºC selection						
Timer	1 – 99 minutes; selection from 1 in 1 minute						
Display	LED, two four-digit LEDs (red colour)						

Accessories

Code	**Description**	**ZCC015**	**ZCC016**	**ZCC017**	**ZCC018**	**ZCC019**	**ZCC020**	**ZCC021**	**ZCC022**
ZCC023	Basket for 0.8 L digital ultrasonic bath	■							
ZCC024	Basket for 2.0 L digital ultrasonic bath		■						
ZCC025	Basket for 3.0 L digital ultrasonic bath			■					
ZCC026	Basket for 22 L digital ultrasonic bath				■				
ZCC027	Basket for 6.0 L digital ultrasonic bath					■			
ZCC028	Basket for 10 L digital ultrasonic bath						■		
ZCC029	Basket for 15 L digital ultrasonic bath							■	
ZCC030	Basket for 30 L digital ultrasonic bath								■

ZCC - Ultrasonic bath

Detergent for ultrasonic baths

1| Formulated to remove general dirt and chemical residues from glass and laboratory instruments.
2| Biodegradable, phosphate-free and concentrated, for mixing 20 mL per liter of water.

Code	Capacity
ZCC004	Container of 1 L

ZCF - Brushes

Type mousse

AUTO +121º

1| Model nº1 made from fibres. Models nº 2, 3 y 4 made from polyethylene foam that is durable and long lasting.

Code	Nº	Total lenght	For
ZCF001	3	480 mm	Cylinders, test tubes...
ZCF002	2	250 mm	Beakers, flasks, jars.....
ZCF003	1	220 mm	Test tube Ø< 25mm
ZCF004	4	440 mm	Erlenmeyer, separating funnels...

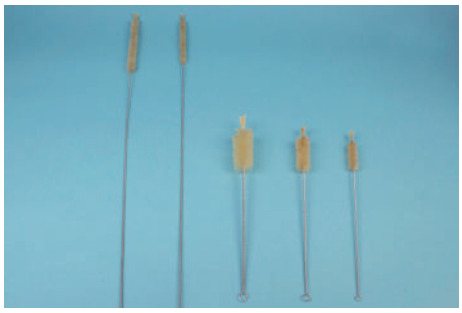
Flexible

1| Made of flexible rubber coated with polyvinyl chloride and nylon bristles.

Code	Length	Brush (ØxL)
ZCF005	580 mm	30x165 mm
ZCF006	720 mm	45x200 mm

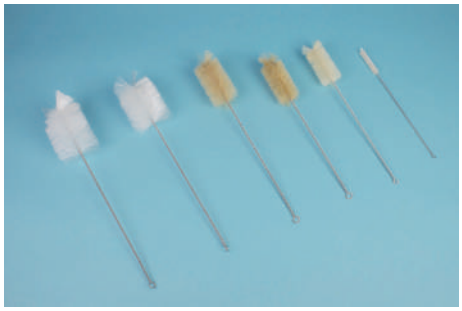
ZCF - Brushes

With tuft



Code	Length	Brush (ØxL)	For
ZCF008	360 mm	15x70 mm	Small tubes
ZCF009	350 mm	25x75 mm	Medium tubes
ZCF010	350 mm	30x85 mm	Large tubes
ZCF015	850 mm	10x180 mm	Burettes 10 mL
ZCF016	870 mm	15x260 mm	Burettes 25 mL

Without tuft



Code	Length	Brush (ØxL)	For
ZCF007	300 mm	10x70 mm	Hemolysis tubes
ZCF011	380 mm	40x110 mm	Cylinders 250 mL
ZCF012	380 mm	50x130 mm	Cylinders 500 mL
ZCF013	440 mm	56x140 mm	Cylinders 1 L
ZCF014	440 mm	80x160 mm	Cylinder, 2 L
ZCF018	500 mm	10x100 mm	Pipettes
ZCF017	450 mm	80x150 mm	Glasses
ZCF019	210 mm	15x70 mm	Tracheal
ZCF020	270 mm	5/10x80 mm	Butyrometers

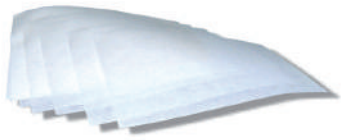
ZCH - Paper

Slide-dryer paper

Code	Dimensions	Nº sheets
ZCH002	100x40 mm	50 sheets

ZCH - Paper

Lens cleaning



1| Code ZCH012 is supplied in 25 packs of 25 sheets each one.

Code	Dimensions	Nº sheets
ZCH012	95 x 135 mm	625
ZCH013	190 x 135 mm	500
ZCH014	190 x 270 mm	500
ZCH015	380 x 540 mm	500

Standard wiping paper

1| 600,2 m of long.

Code	Dimensions	Nº sheets/roll	Quantity
ZCH016	240x350 mm	1.715	1 roll

ZCK - Autoclaves

Autester ST DRY PV 18 L and 23 L

1| Digital electronic control. Stainless steel internal chamber.
2| Staged vacuum purge. Incorporated steam generator. Water reservoir to supply the chamber. High vapour penetration of porous material

Code	ZCK504	ZCK505
Capacity	18 L	23 L
Temperature	121 and 134	121 and 134
Ø x depth	Ø 24,5x38 cm	Ø 24,5x48 cm
External dimensions	40x47x56 cm	40x47x67 cm
Trays dimensions	2x20,5x28 cm	2x20,5x38 cm
Power W	1500 W	1700 W
Weight	46,6 Kg	48 Kg

ZCK - Autoclaves

Autoclave for sterilization “MED 12”

1| Desktop model.

Code	ZCK507
Capacity	12 L
Temperature	121 and 134
Ø x height	Ø 24x26 cm
Exterior dim.	46x38x38 cm
Power W	1800 W
Weight	18 Kg

Autoclave for sterilization “MED 20”

1| Floor-standing model.

Code	ZCK508
Capacity	20 L
Temperature	121 and 134
Ø x height	Ø 24x41 cm
Exterior dim.	70x38x38 cm
Power W	2500 W
Weight	41 Kg

ZCM - Autoclaves, accessories

Autoclave sterilization tape

1| Adhesive paper tape. Colour changes from white to brown
2| Autoclaving sterilisation 20min at 121ºC, 10min at 125ºC or 5min at 135ºC

Code	Dimensions
ZCM008	50X19 mm

ZCM - Autoclaves, accessories

Dry heat sterilization tape

Kartell

1| Color change from white to brown, lead-free. Length 50m and width 19 mm.

Code	Sterilization method
ZCM001	Dry, Poupinel method
ZCM002	Autoclave: 20 min at 121ºC, 10 min at 125ºC 5 min at 135º

Self-sealing sterilization pouches

ENDO plasticware

1| Robust, durable material. Quick content identification. Large self-sealing strip, easy to close.
2| Chevron top seal for easy opening. Suitable for steam and EO gas sterilization

Code	Dimensions	Box of
ZCM009	90x165 mm	200
ZCM010	90x260 mm	200
ZCM011	135x260 mm	200
ZCM012	190x360 mm	200
ZCM013	305x410 mm	200

SOCOREX SWISS

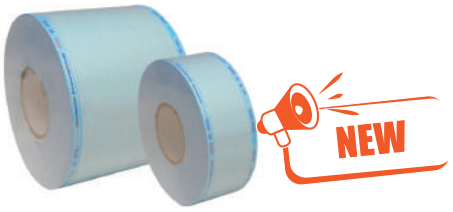
1| Single use pouches provide easy and effective wrapping of items requiring sterilization. Made with robust medical grade paper, the pouches tightly close with a self-sealing strip to maintain sterility.
2| Conformity to ISO 17665-06, ISO 11135, CE. Chevron top seal for easy opening. Two sterilization indicators.

Code	Dimensions	Box of
ZCM003	83 x 160 mm	200
ZCM004	90 x 260 mm	200
ZCM005	135 x 260 mm	200
ZCM006	190 x 360 mm	200
ZCM007	300 x 395 mm	200

ZCM - Autoclaves, accessories

Paper reel for sterilization

Nahita



1| They consist of a paper base and a transparent plastic cover.

Code	Dimensions
ZCM014	75x200 mm
ZCM015	150x200 mm
ZCM016	200x200 mm
ZCM017	250x200 mm

ZZC - Sealing machines

Sealer for paper bags for sterilization paper reels

Nahita

For more information, refer to page 449

Code	ZZC002
Sealing width	3 mm
Max. sealing length	300 mm
Max. plastic thickness	0.4 mm
Dimensions	440x85x245* mm
Power	550 W
Weight	3.50 kg

*Height with the sealing arm released

Sterilized Bag Sealing Machine with roller holder

Nahita

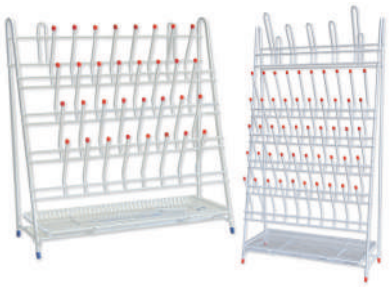
For more information, refer to page 449

Code	ZZC003
Sealing width	15 mm
Max. sealing length	300 mm
Max. plastic thickness	0.4 mm
Dimensions	370x310x180 mm
Power	300 W
Weight	4.50 kg

* Roll not included

ZCZ - Others

Draining rack

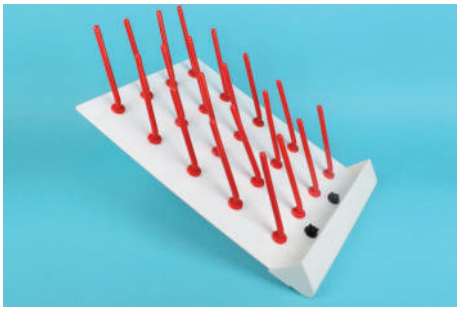


1| Made of plastic coated steel. Inlcudes for drip tray. Can be used as desktop or hanged.

Code	Hangers	HxLxA (mm)
ZCZ001	32	470x360x150
ZCZ002	55	640x360x140
ZCZ017	79	640x360x140

Code	Descripción
ZCZ016	Tray for draining rack ZCZ001, ZCZ002

Draining rack



1| Wall model, made of polypropylene. 20 detachable posts.

Code	Dimensions
ZCZ003	500x350x100 mm

Wall draining rack

1| Made of shockproof polystyrene, it does not oxidize or peel.
2| One-piece mould and drainage channel without connecting lines.
3| Includes wall fixing hooks, drainage kit (joint+tube) and 72 supports (95x15 mm) + 11 supports (95x6 mm). Support plate thickness: 4 mm.

Code	Hangers	Dimensions
ZCZ004	72	450x63x110 mm

ZCZ - Others

Maxi pipette washer

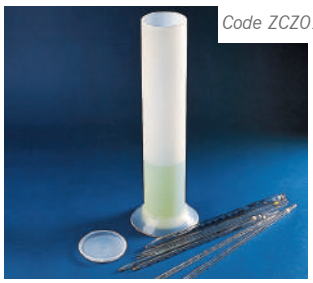
1| Made of polyethylene and polypropylene. Siphon drainage system.
2| Ref. ZCZ007 admits pipettes max. 100 mL or Mohr burettes.

Code	Diameter	Height
ZCZ007	165 mm	990 mm
ZCZ008	165 mm	734 mm

Pipette jar

Code	Diameter	Height
ZCZ009	162 mm	650 mm
ZCZ010	162 mm	500 mm

Pipette basket



Code ZCZ014

Code	Diameter	Height
ZCZ012	145 mm	648 mm
ZCZ013	145 mm	497 mm
ZCZ014	82 mm	410 mm

ZFB - Diagnostic

Multiparameter monitor Axavet 12M

LowPulseStr™ SPO2 algorithm for more reliable SO2 readings during low perfusion and movement. **PIV / PI** perfusion index and plethysmo raphic variability index, for fluid response prediction. **iFastBP™ NIBP** algorithm used for quick and comfortable measurement of NIBP. **wS artHeart™ ECG** for safer analysis and monitoring of heart rate. **iRealResp™** respiratory rate technology for real-time readings. **wSmartGas™** capnograph technology for reliable readings in multiple environments. **EtCO2 / FiCO2** capnography in modular architecture.

NEW

Code	ZFB009
Display	12,1" touch screen
Output	Built-in thermal printer
Battery	Lithium
Weight	5,0 Kg
Dimensions	30x15x30 cm

Accessories

Code	Description
ZFB010	5-lead ECG cable for animal
ZFB011	SPO2 probe (small and big size)
ZFB012	SPO2 extension cable
ZFB013	Extension tube for NIBP cuff 1 pc
ZFB015	Temperature probe for vet 1 pc rectal
ZFB016	Tinistream Water Trap,

ZFP - Histology

Paraffin dispensing unit

1| Large-capacity paraffin tank. Fast and uniform heating.
2| Control panel with LCD screen. The paraffin dispensing faucet can be operated manually or with a foot pedal (included).
3| Work table with low-voltage lighting. Small cold spot on the work table.
4| Collection tank for collecting excess paraffin from the work table.
4| Memory function and automatic recovery; the automated control system allows for preprogramming the equipment's on and off times at the desired temperature.

Code	ZFP006
Paraffin reservoir capacity	5L
Capacity	120 moulds
	140 cassettes*
Max. set point temp. of hot zones	99°C, step of ±1 °C
Temp. range of the small cold spot	-5°C a -20°C, step of ±1 °C
Working environment temp.	0°C - 40 °C
Power supply	220VAC, 50Hz
Power consumption	1800W/10A

* in each reservoir

Paraffin dispensing unit

1| Temperature regulation up to 99ºC.
2| Dispensing faucet activated by an ON/OFF button.
3| Programmable start and end time for heating.

Code	ZFP013
Deposit capacity	5 L
Programable parameters	Start and end time / temperature
Dimensions	410x440x360 mm
Power	220 V, 50 Hz

ZFP - Histology

Digital flotation bath for tissue sections

1| Black tray for optimal localization of the cuts.
2| Thermal edge for drying the samples.

Code	ZFP008
Capacity	2L (approx.)
Temperature range	Room temperature to 90ºC
Dimensions (chamber)	240x180x54 mm
Dimensions (equipment)	340x350x105 mm

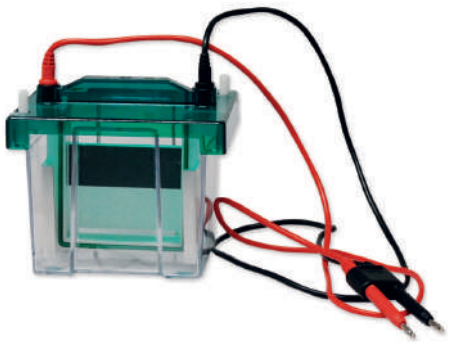
Digital flotation bath for tissue sections

1| For drying the slides.

Code	ZFP009
Temperature range	Room temperature up to 90º
Chamber dimensions	34x25 cm
Total dimensions	34x25x10.5 cm

ZFD - Molecular biology

Vertical electrophoresis cell



1| Electrophoresis is a technique that uses polyacrylamide gels (PAGE).
2| High transparency polycarbonate material, injection-molded, resistant to impacts, high temperatures, and corrosive agents.
3| Accessories included: 12 combs, 2 wedged-shaped plates, 1 gel shovel, 1 dummy plate, 2 spacer plates with 0.75 mm spacer, 2 spacer plates with 0.75 mm spacer, 2 spacer plates with 1.5 mm spacer and 4 concave plates.

Code	ZFD005
Number of gels	1 or 2
Gel size (WxL)	82x88 mm
Glass plate size (WxL)	100x100 mm
Gel thickness	0,75 mm / 1,0 mm / 1,5 mm
Number of samples	11 or 15 per gel
Buffer volume	750 mL
Dimensions (LxAxH)	150x120x115 mm
Net weight	1,5 kg

Vertical electrophoresis cell

1| Installation takes just 15 seconds, ensuring efficient preparation.
2| Supports 1 to 4 mini polyacrylamide gels, either prefabricated or hand-cast.
3| Complete: Tank, lid with electrodes, gel support, gel casting device, plane and notched glass plates and set of combs

Code	ZFD024
Number of gels	1 or 4
Gel size (WxL)	82x88 mm
Glass plate size (WxL)	100x100 mm
Gel thickness	1,0 mm / 1,5 mm
Number of samples	11 or 60
Buffer volume	1000 mL
Dimensions (LxAxH) / Net weight	220x170x12 mm / 2,5 kg

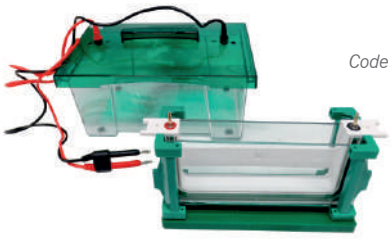
ZFD - Molecular biology

Vertical electrophoresis cell

1| Quick installation of glass plates in 15 seconds, without screws. Ensures cooling and stable pH thanks to abundant buffer. Automatic shutdown when the lid is removed.

Accessories Reference ZFD025 (included):
2 modular devices (rubber bases for gel preparation), 4 glass plate fixing clips, 2 combs, 1 mm, 52 teeth, 2 combs, 1 mm, 40 teeth, Combs, 1 mm, 25 teeth, Spacers: 4 x 1 mm, 4 concave plates, 1 double transfer module, 1 glass dropper pipette

Accessories Reference ZFD026 (included):
2 combs, 1 mm, 52 teeth, 2 combs, 1 mm, 40 teeth, 2 combs, 1 mm, 25 teeth, 1 double transfer module, Spacers: 4 x 1 mm, 4 concave plates, 1 base for gel casting, 1 double core for casting, 3 grooved guides



Code ZFD026

Code ZFD026

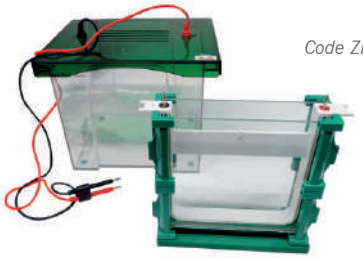
Code	ZFD025	ZFD026
Number of gels	1 or 2	
Included Accessories	Refer to the text of the included accessories	
Gel size (WxL)	186x95 mm	
Glass plate size (WxL)	216x110 mm	
Gel thickness	1,0 mm	
Number of samples	25 to 104	
Buffer volume	2200 mL	
Dimensions (LxAxH)	300x190x129 mm	
Net weight	3.2 kg	

Vertical electrophoresis cell

1| Glass plate installation can be completed in 15 seconds without the need to screw buttons, making it quick and easy.
2 | It not only ensures a cooling effect but also maintains a stable pH throughout the process thanks to abundant buffering.
3 | Automatic shutdown when the lid is removed.

Accessories Reference ZFD027 (included):
2 modular devices (rubber bases for gel preparation), 12 glass plate fixing clips, 2 combs, 1 mm (52 teeth), 2 combs, 1 mm (40 teeth), 2 combs, 1 mm (25 teeth) Spacers: 4 x 1 mm, 4 concave plates, 1 double transfer module, 1 glass dropper pipette

Accessories Reference ZFD028 (included):
2 combs, 1 mm (52 teeth), 2 combs, 1 mm (40 teeth), 2 combs, 1 mm (25 teeth), 1 double transfer module, Spacers: 4 x 1 mm, 4 concave plates, 1 base for gel casting
1 double core for casting, 3 grooved guides



Code ZFD027

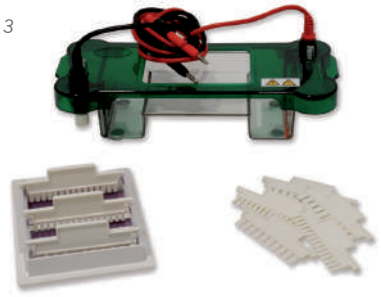
Code ZFD028

Code	ZFD027	ZFD028
Included Accessories	Refer to the text of the included accessories	
Number of gels	1 to 2	
Gel size (WxL)	186x205 mm	
Glass plate size (WxL)	216x220 mm	
Gel thickness	1,0 mm	
Number of samples	25 to 104	25, 40, 52 Wells
Buffer volume	8000 mL	
Dimensions (LxAxH)	320x240x230 mm	
Net weight	5.6 kg	6.2 kg

ZFD - Molecular biology

Horizontal electrophoresis cell

Code ZFD013



Code ZFD021

NEW

Code ZFD022

1| The tanks are made of high-quality materials, resistant to impact, high temperatures, and corrosive agents. The required buffer volume is sufficient to ensure both cooling and pH stability throughout the process.
2| Transparent lids provide effective sealing to prevent buffer evaporation and electrical leaks. Automatic shutdown function when the lid is removed.
3| Included accessories: molds for gel preparation, gel trays, and a set of combs with different thicknesses and well numbers.

Code	ZFD013	ZFD020	ZFD021
Gel size (WxL)	78x100 mm	48x75 mm	120x120 mm 120x60 mm 60x120 mm 60x60 mm
Capacity	10-30	3-18	1-100
Combs	10/15	3/5/9	1/2/3/6/8/11/13/18/25
Comb Thickness	1 and 2 mm	1 and 1,5 mm	1 and 1,5 mm
Buffer Volume (approx.)	400 mL	150 mL	550 mL
Maximum Voltage	150 V	100 V	200 V
Dimensions (LxAxH)	365x105x55 mm	250x90x50 mm	300x160x75 mm

Code	ZFD022	ZFD023
Gel size (WxL)	140x140 mm 140x70 mm 70x70 mm	200x200mm 200x150 mm 200x100 mm
Capacity	1-116	16-264
Combs	1/2/3/6/8/13/14/19/29	17/22/36/44
Comb Thickness	1 and 1,5 mm	1 and 2 mm
Buffer Volume (approx.)	900 mL	1800 mL
Maximum Voltage	250 V	500 V
Dimensions (LxAxH)	390x187x63 mm	397x230x93 mm

Transfer module

1| For transfer of proteins from polyacrylamide gels (Western Blot).
2| Support with platinum electrodes.
3| Color coded to ensure correct gel orientation during transfer process.
4| Compatible with external tank of the vertical electrophoresis cell and power supply ref. ZFD014.
5| It includes:
- 2 polycarbonate cassettes with perforated plates.
- 4 cushions.

Code	ZFD006
Pore plate dimensions	95 x 87 mm
Buffer	500 mL
Working conditions	0-40ºC; ≤80% HR

ZFD - Molecular biology

Thermal cycler TC1000

1| With high-performance Peltier effect and independent heating segments for better temperature control.
2| Temperature gradient adjustment for easy temperature optimization in a single operation. Color touch screen with user-friendly interface for easy program editing.
3| Wide range of consumable options: common PCR tubes, 8-tube PCR strips and 96-well PCR plates can be used.
4| Power failure protection function, automatic program recovery. Heated lid auto-shutdown function: if the module temperature is below 30°C, the heated lid function is automatically deactivated.

Code	ZFD017	ZFD018
Model	TC1000-S	TC1000-G
Capacity	96 x 0.2 mL PCR tubes 96-well PCR microplate 12 × 8 0.2 mL PCR strip tubes	
Temperature range	4 - 105ºC	
Lid temperature range	30-110 ºC	
Temperature display accuracy	± 0,1 ºC	
Accuracy of temperature display at 55ºC	± 0,3 ºC	
Temperature uniformity at 55ºC	< 0,3 ºC	
Max. heating/cooling speed	5ºC/sec	
Gradient temperature setting range	-	39~99ºC
Gradient range	-	1~42ºC
Adapter block material	Aluminum	
Display	7" LCD 800x480	
User-defined file system	Max. 30 segments 99 cycles Storage of over 200 files	
Power supply	100-240 V / 50-60 Hz	
Dimensions	280 x 370 x 250 mm	

Thermal Cycler GET-S

nahita blue

1| Six long-life Peltier heating units form 3 circuits to control 3 temperature zones.
2| Continuously adjustable heating cover adapts to different tube heights to prevent melting and evaporation.
3| It incorporates 11 standard program file templates, so you can quickly edit the files you need.
4| The fast, one-click incubation function can meet the needs of experiments such as denaturation, enzyme cleavage/binding and ELISA.

Code	ZFD019
Capacity	96×0,2 mL
Temperature range	0-105 ºC
Maximum heating rate	4,5 ºC/s
Maximum cooling speed	4 ºC/s
Temperature uniformity	≤±0,2 ºC
Temperature accuracy	≤±0,1 ºC
Resolution	0,1 ºC
Adjustable temperature ranges	0,1-4,5 ºC
Gradient range	30-105 ºC
Gradient differential	1-30 ºC
Hot lid temperature	30-110 ºC
Number of programs	10000+ (FLASH USB)
Maximum number of steps	30
Maximum number of cycles	200
Time increase/decrease	1 sec - 600 sec
Temperature increase/decrease	0,1-10,0 ºC
Touchscreen	8 - inch, 800×600 pixels, TFT
Communication	USB2.0, LAN, WiFi
Languages	French / English / Spanish
Dimensions (L×L×H)	390 mm×270 mm×255 mm
Weight	9 kg
Power supply	100-240VAC, 50/60Hz, 600W

ZFP - Histology

Cold plate f/parafin dispensing unit

Nahita

1| Cold plate for kerosene dispensing unit. Capacity: 40 to 50 molds.

Code	ZFP007
Temperature	down to -20 ºC
Plate dimensions	300x250 mm
Overall dimensions	525x362x370 mm
Weight	23 Kg
Power supply	220v 50 Hz

Hand microtome 512

Nahita

1| Hand microtome with a wooden case. Includes a folding blade.
2| Brass platform of 63 mm. Centered hole with a diameter of 23 mm to hold samples.
3| Inscribed on the body of the microtome: 1 DIV = 10μ.

Code	ZFP014
Centered hole diameter	23 mm
Min. cutting thickness	10 microns
Scale	50 divisions

Manual rotary microtome, basic

Nahita

1| Smooth manual handwheel with an internal locking system.
2| Micrometric screw at the base for advancing the specimen. Sample holder with an orientation system.
3| Supplied with a 12 cm biplane blade; the equipment is also compatible with the blade holder for disposable blades ref. ZFR008 (not included).
4| The blade holder base can be moved forward, backward, and sideways.

Code	ZFP010
Section thickness	1-25 μm
Min. adjustment	1 μm
Precision	± 10%
Max. specimen size	25x35 mm
Blade orientation angle	0-10º
Horizontal sample stroke	35 mm
Vertical sample stroke	46 mm
Dimensions (LxWxH)	350x350x270 mm
Weight	26 Kg

Manual rotary microtome, advanced

Nahita

1| Robust and easy-to-clean design.
2| Smooth manual handwheel with ergonomic handle and locking system.
3| Macro advance handwheel with a lowered position for easy access.
4|Blade holder base for high and low-profile disposable blades with lateral adjustment mechanism and foldable finger guard.
5|Standard sample holder and cassette holder; compatible with plastic slide holder.

Code	ZFP011
Cutting thickness adjustment	Of 0.5-2 μm in steps of 0.5 μm Of 2-10 μm in steps of 1 μm Of 10-20 μm in steps of 2 μm Of 20-60 μm in steps of 5 μ
Section thickness	0.5-60 μm
Precision	± 5%
Max. specimen size	50x45 mm
Blade orientation angle	0-12º
Coarse feed	Manual, by coarse feed wheel
Horizontal sample stroke	35 mm
Vertical sample stroke	46 mm
Sample orientation	8º (X-Y axis); rotatable 360º
Dimensions (LxWxH)	300x570x270 mm
Weight	34 Kg

ZFP - Histology

Rotary microtome semi-automatic

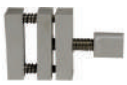
1| Robust, comfortable, and easy-to-clean design.
2| User safety features include a blade holder for disposable blades with a foldable finger guard and a locking system for the manual handwheel in any position.
3| Touchscreen for adjusting and controlling parameters: motorized forward and reverse movement of the specimen, cutting thickness, trimming thickness, and slice count.
4| Smooth manual handwheel with an ergonomic handle.
5| Blade holder base for disposable blades with a lateral adjustment mechanism.
6| Includes standard sample holder and universal cassette holder; compatible with plastic slide holder.

Code	ZFP012
Section thickness range	0.5-100 µm
Section thickness setting value	Of 0.5-2 µm in 0.5 µm increments
	Of 2-10 µm in 1 µm increments
	Of 10-20 µm in 2 µm increments
	Of 20-50 µm in 5 µm increments
	Of 50-100 µm in 10 µm increments
Trimming section thickness range	5-500 µm
Trimming thickness setting	Of 5-100 µm in 10 µm increments
	Of 100-200 µm in 20 µm increments
	Of 200-500 µm in 50 µm increments
Horizontal sample stroke	20 mm, motorized
Vertical sample stroke	60 mm
Sample retraction	12 µm
Precision	± 5%
Max. Specimen size	50x45 mm
Blade orientation angle	0-14°
Sample orientation	8° (X-Y axis); rotatable 360°
Dimensions (LxWxH)	520x450x300 mm
Weight	30 Kg
Power	220 V / 50 Hz

ZFR - Accessories

Code ZFR008 -
Blade holder for disposable blades

Code ZFR010 -
Knife handle f/disposable



Code ZFR011 -
Blade holder for disposable blades

Code ZFR012 -
Clamp f/plastic plate f/microtome semi-automatic

Code ZFR013 - Steel knife 120 mm
Code ZFR014 - Steel knife 160 mm

Code ZFR010
Knife handle f/disposable knife

Code	Description	501 ZFP014	Basic ZFP010	Advanced ZFP011	Semi-automatic ZFP012
ZFR008	Blade holder for disposable blades Stainless steel, dimensions 170 x 30 x 10 mm		■		
ZFR010	Handle for disposable blades	■			
ZFR011	Plastic slide holder For making sections of plastic slides such as HDPE			■	
ZFR012	Plastic sheet holder For making sections of plastic sheets such as HDPE				■
ZFR013	Biplane blade 120 mm		■		
ZFR014	Biplane blade 160 mm		■		
ZFR015	Low profile blade carrier f/advanced microtome			■	

* Accessories compatible with the specified equipment.

ZHB - Paddle blenders

Paddle blenders

1| Made of stainless steel for sample volumes between 3 and 400 mL.
2| Front door with glass window for sample monitoring. Removable for easy cleaning. Digital and touchscreen display.
3| Homogenization time and impact frequency. Memory for 8 samples.
4| Distance adjustment mechanism and impact force.

Code	ZHB002
Capacity	3 - 400 mL
Timer	1 sec – 100 hours
Blade speed	3 – 12 strokes/seg
Blade distance	0 – 50 mm
Bag size	17 x 30 cm
Ambient temperature	0 - 35 ºC
Power supply	220V/50Hz
Consumption	200W
Dimensions	420 x 230 x 330 mm
Net weight	19 kg

Pipette dilution Acura 810, 1 mL + 0.1 mL

AUTO +121°

1| Two pre-calibrated volumes – no adjustments required.
2 | Smooth activation, excellent ergonomics.
3 | Interchangeable nozzle protection with a PE filter.
4 | Justip™ system for height adjustment of the tip ejector.
5 | Independent calibration for each volume. Fully autoclavable at 121ºC.

Code	Accuracy (E%)	Precision (CV %)	Volume
MGR001	<± 0.5%	< 0.4%	1 mL
	<± 2.0%	< 2.5%	0.1 mL

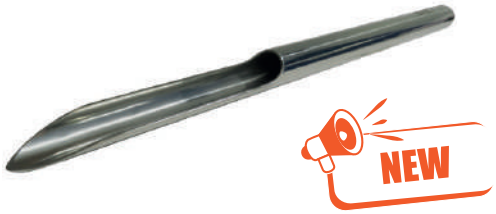
Values obtained with double-distilled water at a constant temperature (± 0.5°C) between 20 and 25°C, in accordance with ISO 8655 standards.

Acura® dilution 810 Accessories

Code	Description	Pack
MGY006	Filter PE 6.3x2.5 mm	100 units

ZHN - Bag sampling

Bag sampler



NEW

1| Very sharp lance for easy puncturing of the sack.
2| No crevices for easy cleaning and avoid cross contamination.

Code	ZHN001
Material	316 L stainless steel
Length	400 mm
Inner diameter	22.3 mm
External diameter	25.4 mm

ZHB - Paddle blenders

Emulsifier Homogenizer

1| LED display for speed control (2000 - 28000 rpm).
2| SS316 stainless steel head, with stirring capacity between 50 and 1500 mL. Designed for various purposes: grinding, homogenizing, emulsifying, polymerizing, suspending, and stirring.
3| The speed at which the rotor spins results in a high angular and tangential circumferential speed that draws material from the bottom of the rotor and ejects it through the stator opening with great centrifugal force.
4| Includes: body without head (1 unit), base (1 unit), support rod (2 units), fixing bar (1 unit), and nut (1 unit).

Code	ZHB003
Power supply	220 VAC, 50/60 Hz
Input power	850 W
Output power	500 W
Nominal torque	17.1 N·cm
Operating modes	Continuous/Timer
Speed regulation	Continuous
Speed range	2000 - 28000 rpm
Display	LED
Timer range	1 - 1000 min
Speed memory function	Yes
Overload protection	Yes
Needles	12G/18G

ZHT - Liquid sampling

PTFE beaker dipper

1| Made of PTFE (Teflon)
2| Excellent chemical and mechanical resistance
3| Withstands temper temperatures up to +260ºC and for short intervals up to +340ºC

Code	Capacity
ZHT005	100 mL
ZHT006	250 mL
ZHT007	500 mL
ZHT008	1000 mL

ZHV - Gas sampling gas

Balloons for gas sampling

1| Made of latex.

Code	Diameter	Volume
ZHV006	130 mm	1 L / 1000 cc
ZHV007	150 mm	1,5 L / 1500 cc
ZHV008	160 mm	2 L / 2000 cc
ZHV009	200 mm	4 L / 4000 cc
ZHV010	230 mm	5 L / 5000 cc
ZHV011	250 mm	8 L / 8000 cc

ZHV - Gas sampling gas

Gas sampling bag Chemware

1| Bags made of Tedlar (difluorinated polyvinyl) with a thickness of about 0.2 mm, are used for taking samples of liquids or non-corrosive gases.
2| Bags made of FEP (fluoropolymer) with a thickness of around 0.5 mm offer very good chemical resistance.

Code	Material	Capacity	Lock	Dim.
ZHV012	FEP	1,2 L	Valve on / off	150x250 mm
ZHV013	FEP	0,5 L	Valve on / off	150x150 mm
ZHV014	FEP	4,7 L	Valve on / off	300x300 mm
ZHV015	FEP	50 L	Valve on / off	600x900 mm
ZHV023	Tedlar	8,1 L	Valve on / off	380x380 mm
ZHV027	Tedlar	1,6 L	Septum	230x230 mm

ZKH - Oenology

Destilling Super DEE without steam generator

1| According to the official method for determining the volumetric alcohol content in wines, musts, and alcoholic beverages (EU Regulations 2676/90 and 2870/2000) and for volatile acidity.

Code	ZKH507, ZKH508
Wine distillation	100 mL in 3÷4 minutes – 200 mL in 5÷6 min
Volatile acidity	250 mL in 6÷7 minutes
Distillation of spirits	in 4÷8 minutes

ZKZ - Others

Digester apparatus for trichinella

Composed of:

LBD009: Digital magnetic stirrer with heating
PQB030: 2L open decantation funnel for trichina equipment
PQL006: 50mL open cylindrical funnel for trichina equipment
ZKZ002: Sieve 100x40, 180 µm
FCB023: Plate support stand 300x175 mm with rod 10x600 mm
FCV004: Ring with spike 105 mm, chrome steel
FCR002: Ring with spike 65 mm, chrome steel
FCG001: Two-finger clamp without nut, 12-45 mm
FCP002: Medium painted double nut, 16 mm (3 pcs)
CBC025: Low-form beaker 3000 mL
LDB011: Teflon-coated cylindrical magnet 55x8 mm
DBG003: Graduated glass cylinder, 25 mL
DGJ010: Graduated pipette 25 mL / 0.1 mL
MBJ009: Pipette aspirator, 25 mL red
LDR010: PP stirring rod
BRB012: Bag of 20 grid Rodac plates

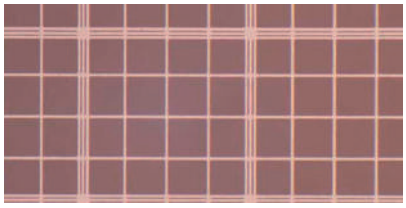
The equipment is supplied in its standard configuration but can be expanded with the following items:
- KBC001: Precision balance 300g/0.01g, series 5162
- HDD011: Stereo microscopes series Z
- FMJ010: Dissection forceps 1:2 teeth, 160 mm
- FMN011: Straight scissors sharp-sharp, 160 mm
- KKF002: Pocket watch 24 h, 1 memory
- DGJ005: Graduated pipette, 1 mL / 0.01 mL
- DGJ008: Graduated pipette, 10 mL / 0.1 mL

Code	Description
ZKZ001	Digester apparatus for trichinella

ZMB - Blood analysis

[1] STANDARD: The grid is engraved on the background of the counting chamber and appears under the microscope as a pattern of dark lines.

[2] WITH CLAWS: Similar to the standard format but with two claws that ensure optimal holding of the coverslip.



[3] LIGHT LINES: The background of the chamber features a rhodium coating (dark background) on which the grid is engraved, achieving optimal contrast.

	Brand	Standard double	Standard single	With claws double	Light lines double
Neubauer Improved	PRECISS EUROPE (CE)	ZMB027	ZMB030	ZMB028	ZMB029
Bürker	PRECISS EUROPE (CE)	ZMB013	ZMB016		ZMB015
Fuchs-Rosenthal	PRECISS EUROPE (CE)	ZMB017	ZMB020	ZMB018	ZMB019
Thoma	PRECISS EUROPE (CE)	ZMB031	ZMB034	ZMB032	ZMB033
Malassez	PRECISS EUROPE (CE)	ZMB021	ZMB024		

Burker counting chamber

1| Depth: 0.100 mm. Volume in 1 mm²: 0.1 µL
2| Minimum area: 0.0025 mm². They are mainly used for counting erythrocytes and platelets.
3| With CE certification (IVD).

Code	Format
ZMB013	[1] Standard, dark lines double grid
ZMB015	[3] Light lines double grid
ZMB016	[1] Standard, dark lines single grid

Counting chamber CE Fuchs-Rosenthal

1| Depth: 0.200 mm. Volume in 1 mm²: 0.2 µL
2| Minimum area: 0.0625 mm². They are mainly used for counting cells in cerebrospinal fluid (CSF).
3| With CE certification (IVD).

Code	Format
ZMB017	[1] Standard, dark lines double grid
ZMB018	[2] With claws, dark lines double grid
ZMB019	[3] Light lines double grid
ZMB020	[1] Standard, dark lines single grid

Counting chamber CE Malassez

1| Depth: 0.200 mm. Volume in 1 mm²: 0.2 µL
2| Minimum area: 0.0025 mm²
3| They are mainly used for counting blood cells.
4| With CE certification (IVD).

Code	Format
ZMB021	[1] Standard, dark lines double grid
ZMB024	[1] Standard, dark lines single grid

ZMB - Blood analysis

Neubauer improved counting chamber

1| Depth: 0.100 mm. Volume in 1 mm²: 0.1 µL
2| Minimum area: 0.0025 mm². They are mainly used for counting erythrocytes, platelets, and leukocytes. With CE certification (IVD).

Code	Format
ZMB027	[1] Standard, dark lines double grid
ZMB028	[2] With claws, dark lines double grid
ZMB029	[3] Light lines double grid
ZMB030	[1] Standard, dark lines single grid
ZMB050	[3] With claws, light lines double grid
ZMB053	[1] Standard, single grid

Thoma counting chamber

1| Depth: 0.100 mm. Volume in 1 mm²: 0.1 µL
2| Minimum area: 0.0025 mm². They are mainly used for counting erythrocytes and platelets.
3| With CE certification (IVD)

Code	Format
ZMB031	[1] Standard, dark lines double grid
ZMB032	[2] With claws, dark lines double grid
ZMB033	[3] Light lines double grid
ZMB034	[1] Standard, dark lines single grid

Coverglasses

1| Made of soda glass, with cut edges.
2| Thickness of 0.4 mm.
3| Supplied in boxes of 10 units.

Code	Dimension
ZMB036	20x26 cm
ZMB037	22x22 cm
ZMB038	24x24 mm

ZMB - Blood analysis

Sedirate pipette

1| This system allows a fast and safe execution of the Erythrocyte sedimentation rate acording to the Westergreen code method.
2| Composed of the following independent elements:

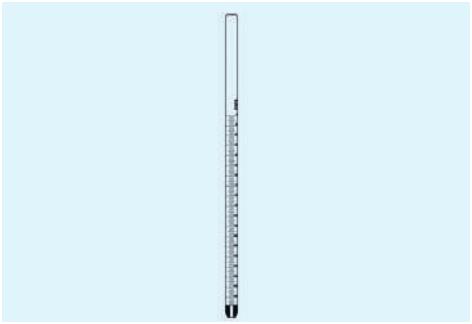
Code	Description	Nº PCS
ZMB039	PE pipettes graduated from 0-180 mm	2400
ZMB044	PP tubes, labelled, pipette included	800
ZMB045	PP holder with 10 numbered spaces	12

Microhaematocrit capillaries

1| Disposable and easily sealed at one end.

Code	Volume	Length	Heparinized.	Pack
ZMB047	75 µL	75 mm	No box	200 units
ZMB048	35 µL	40 mm	No box	100 units

Westergreen pipette

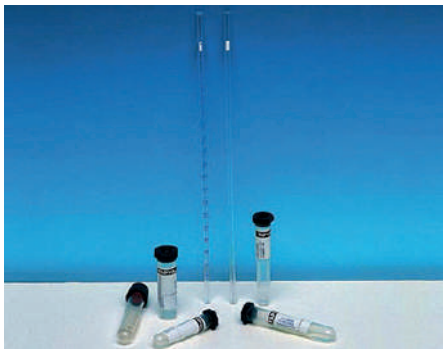


1| Analyses the speed of erythrocyte sedimentation in blood.

Code	Material	Total length	Capacity
ZMB058	Lime soda glass	300 ± 2 mm	0 - 200 mm

ZMB - Blood analysis

Tube AQUISEL



Code	mL blood	Content/Reactive	Type	C.Stopper
ZMB510	4 mL	EDTA K3	Liquid	Purple
ZMB512	1 mL	EDTA K3	Liquid	Purple
ZMB513	4 mL	Citrate	Liquid	Blue
ZMB514	1 mL	Lithium Héparine	Liquid	Green
ZMB515	1 mL	Lithium Héparine	Liquid	Green

ZMC - Surgery

AXAVET OLV-5 Oxygen Concentrator

1| Fully automatic and easy operation
2| Compact and silent
3| Requires very little space
4| With supply cut-off alarm
5| Includes nebuliser cup
6| Easy maintenance

Code	ZMC017
Oxygen purity	≥ 93% ±3%
Output pressure	100-115 kPa
Flow rate range	0-5 L/min
Noise level	< 45 dB
Power consumption	500 W
Power supply	100-240 V AC, 50/60 Hz
Dimensions (LxWxH)	490x270x560 mm
Weight	22 kg

ZMC - Surgery

Oxygen concentrator AXAVET OLV-10S

1| Fully automatic and easy to operate
2| Compact and quiet
3| Requires very little space
4| With power failure alarm
5| Includes nebuliser cup
6| Easy to maintain

Code	ZMC024
Model	OLV-10S
Flow range	0-10 l/min
Oxygen purity	93 %±3 %
Output pressure	140 kPa
Noise level	50 dB(A)
Noise level of the alarm signal	>40 dB(A)
Energy consumption	800 W
Power supply	100-240 V AC, 50/60 Hz
Dimensions (LxWxH)	350x250x670 mm
Weight	28 Kg

ZMD - Urine containers

Urine tank

1| Made of polyestyrene
2| Graudated up to 2500 mL
3| Supplied with cap for easy sampling

Code	ZMD001	ZMD002
Mouth diameter	74 mm	74 mm
Dimensions	114x243x160 mm (AxLxH)	130x250 (ØxH)
Graduation	Every 250 mL	Every 100 mL

ZMD - Urine containers

Male bed bottle

Kartell

1| Made of polyestyrene

Code	ZMD004
Capacity	1 L

PP Specimen container with screw cap

ENDO plasticware

1| Made of high-quality polystyrene or polypropylene. Polypropylene containers can resist temperatures up to 121 °C and can be autoclaved.
2| Clear embossed graduation for easy reading.
3| Screw cap.

Code	Material	Volume (mL)	Packaging
ZMD010	PS	30	1000 pcs / box
ZMD011	PP	60	500 pcs / box
ZMD012	PP	90	400 pcs / box
ZMD013	PP	120	250 pcs / box

Collector

VITLAB

1| With raised scale.
2|PC cover for collecting jugs ref.: ZMD501, ZMD505, ZMD506

Code	Material	Volume	Division	Height	Diameter
ZMD501	SAN	2000 mL	20 mL	220	150
ZMD505	PP	2000 mL	20 mL	220	150
ZMD506	PP	2000 mL	20 mL	220	150

ZML - Dental

Mobile Cart Veterinary Dental Unit, BDS-05 model

Code	ZML023

1|Dental unit mounted on a height-adjustable trolley, white-painted steel, oil-free 12L compressor with automatic purge, noise <65 dB. Single foot control. Single power cable. Dual hydraulic system (water/antiseptic). Automatic selection of handpieces. Independent controls for irrigation quantity and atomization of irrigation. Floor dimensions 43x40 cm, adjustable height 90–105 cm. 5 positions for handpieces:
- Position 1: High-speed turbine 330,000–390,000 rpm with irrigation and self-generated LED light.
- Position 2: Polishing micromotor 5,000–20,000 rpm with external irrigation, irrigation tube, 1:1 contra-angle with push-button closure.
- Position 3: Piezo-electric dental scaler Woodpecker LED, 6 tips, tip wrench.
- Position 4: Water/air/spray syringe with autoclavable tip, 360° rotation.
- Position 5: Liquid suction with atraumatic flexible cannula, with atraumatic flexible cannula.

ZMZ - Others

Douche cans

Kartell

1| Made of polypropylene.
2| Autoclavable.
3| Provided with flat back and suspension tag.

Code	ZMZ002
Capacity	2 L
External tube diameter	9,90 mm

ZMZ - Others

Fetal flask

Code	Dimension	With lid
ZMZ003	50x150 mm	No
ZMZ004	50x200 mm	No
ZMZ006	80x300 mm	No

Douche cans

1| Borosilicate glass.
2| With rim.

Code	Can diameter	Mouth diameter	Height
ZMZ008	60 mm	80 mm	200 mm
ZMZ010	60 mm	80 mm	300 mm

AXAVET EN-V5 Vet Infusion Pump

1| Large touch screen for clear display of parameters including remaining infusion time.
2| Compatible with standard droppers. Holder for serum carrier included.

Code	ZMZ015
Accuracy	±5 %
Air bubble detection	20, 50, 100, 200, 400, 800 µl
Power supply	100-240VAC, 50/60 Hz
Dimensions (LxWxH)	14x13x9 cm
Weight	1,45 kg

ZMZ - Others

AXAVET EN-V3 Vet Infusion Pump

1| 2.8" screen for clear visualization of parameters, including the remaining infusion time.
2| Various settings available, such as total infusion volume, required flow rate, and total infusion time.

Code	ZMZ020
Accuracy	±5 %
Air Bubble Detection	5 levels (50, 100, 200, 400, 1000 µl)
Occlusion Settings	4 levels (150, 300, 600, 900 mm Hg)
Data Review	2000 levels
Protection Class	IP44
Power Supply	100-240VAC, 50/60 Hz
Dimensions (LxlxH)	14x13x9 cm
Weight	1,45 kg

AXAVET EN-V5H Vet Infusion Pump with Heating

1| Various settings available, such as total infusion volume, required flow rate, and total infusion time.
2| 4.3-inch color touchscreen.
3| Long battery life, up to 10 hours of infusion. Suitable for transfusions. Compatible with standard drip sets.
4| Compatible with standard drip sets. Includes IV pole holder. Modes: flow and volume, total time and volume, total time and flow, body weight, recorded modes, micro mode.

Code	ZMZ021
Accumulated Volume	From 0.1 to 9999 mL
Accuracy	±5 %
Air Bubble Detection	6 levels (20, 50, 100, 200, 400, 800 µl)
Occlusion Settings	5 levels (50, 150, 300, 600, 900 mmHg)
Data Review	5000 records
Protection Class	IP44
Power Supply	100-240VAC, 50/60 Hz
Dimensions (LxlxH)	13x9x14 cm
Weight	1,95 kg

ZZC - Sealing machines

Sealer for paper bags to sterilize

1| Made of aluminum, with 4 rubber feet on the base.
2| Easy to use: simply press and release. Manual cutting via sliding blade.
3| Reduced power consumption as energy is only used when the sealing arm is pressed.
4| Adjustable control with 8 levels to set heating time in seconds, depending on the material thickness.
5| Red indicator light during the heating time.
6| Includes a spare blade, 2 PTFE sealing sheets, and 2 heating elements.

Code	ZZC002
Sealing Width	3 mm
Maximum Sealing Length	300 mm
Maximum Plastic Thickness	0.4 mm
Dimensions	440x85x245* mm
Power	550 W
Weight	3.50 kg

Sterilized Bag Sealing Machine with roller holder

1| Equipment designed to ensure a secure and airtight seal for bags and thermoplastic materials. Its robust structure and advanced features guarantee a perfect seal, protecting the contents from leaks or contamination. Equipped with an integrated roll holder, it simplifies material handling, optimizes the sealing process, and ensures consistent results with every use.
2| Features:
- Made of ABS combined with metal, with 4 rubber feet on the base.
- Easy to use, with press-to-seal functionality and manual cutting.
- Startup indicator light.
- Preheating indicator light.

Code	ZZC003
Sealing Width	15 mm
Maximum Sealing Length	300 mm
Maximum Plastic Thickness	0.4 mm
Dimensions	370x310x180 mm
Power	300 W
Weight	4.50 kg

ANNEX

General catalog 2025

Technical manual

PHYSICAL PROPERTIES OF PLASTICS

Material	Chemical Name	Temperature Resistance (for usual use)	Autoclavable (121ºC, 20 min)
ABS	Acrylonitrile-butadiene-styrene copolymer	From -40 ºC to + 85 ºC	No
HDPE	High-density polyethylene	From -50 ºC to + 80 ºC	No
LDPE	Low-density polyethylene	From -50 ºC to + 75 ºC	No
PA	Polyamide (PA6)	From -30 ºC to + 80 ºC	Yes
PC	Polycarbonate	From -100 ºC to + 135 ºC	Yes
PE	Polyethylene	From -40 ºC to + 80 ºC	No
PMMA	Polymethyl methacrylate	From -40 ºC to + 85 ºC	No
PMP	Polymethylpentene	From 0 ºC to + 120 ºC	Yes
POM	Polyoxymethylene	From -40 ºC to + 90 ºC	Yes
PP	Polypropylene	From -10 ºC to + 120 ºC	Yes
PS	Polystyrene	From -10 ºC to + 70 ºC	No
PTFE	Polytetrafluoroethylene	From -200 ºC to + 70 ºC	Yes
PVC	Polyvinyl chloride	From -20 ºC to + 80 ºC	No
PVDF	Polyvinylidene fluoride	From -40 ºC to + 105 ºC	Yes
PET	Polyethylene terephthalate	From -40 ºC to + 50 ºC	No

CHEMICAL RESISTANCE OF PLASTICS

Material	LDPE	HDPE	PP	PMP	PTFE / PFA
Concentrated acids	●	●	●	●	●
Diluted acids	●	●	●	●	●
Alkaline solutions	●	●	●	●	●
Aliphatic alcohols	●	●	●	●	●
Aldehydes	●	●	●	●	●
Ketones	●	●	●	●	●
Esters	●	●	●	●	●
Aliphatic hydrocarbons	●	●	●	●	●
Aromatic hydrocarbons	●	●	●	●	●
Halogenated hydrocarbons	●	●	●	●	●
Strong oxidants	●	●	●	●	●

- ● High resistance
- ● Marginal resistance
- ● Good resistance
- ● No resistance

TECHNICAL CHARACTERISTICS OF JIPO PORCELAIN

- High resistance to acids and bases.
- Maximum application temperature:
  - Unenameled products: up to 1350ºC / 2462ºF.
  - Enameled products: up to 1000ºC / 1832ºF.
- Other characteristics:
  - Density: 2.4 g/cm^3.
  - Flexural strength (unenameled products): 70 MPa.
  - Thermal conductivity: 1.3 W·m^{-1}·K^{-1}.

For more information, please visit the website.

TECHNICAL CHARACTERISTICS OF NAHITA PORCELAIN

- Maximum application temperature: 1050ºC / 1954ºF.

GENERAL TECHNICAL CHARACTERISTICS OF GLASS

Borosilicate glass 3.3 and soda-lime glass have distinct characteristics, making them suitable for various applications based on their properties. Borosilicate glass 3.3 stands out for its excellent thermal and chemical resistance, making it the ideal choice for demanding scientific and technical applications. In contrast, soda-lime glass is suitable for everyday products, as it has limitations in terms of heat and chemical resistance. The choice between these two types of glass will depend on the specific requirements of each application, considering factors such as thermal and chemical resistance or cost.

	Borosilicate Glass 3.3	Soda-Lime Glass
Chemical Composition	80% Silica 13-15% Boron Oxide (B_2O_3) Others: Na_2O, Al_2O_3...	70-75% Silica (SiO_2) 12-15% Sodium Oxide (Na_2O) 10-15% Calcium Oxide (CaO) Others: MgO...
Thermal Resistance	High	Medium
Thermal Expansion Coefficient	Low	Medium
Chemical Resistance	High	Medium
Mechanical Resistance	High	Medium

SIMAX GLASS

For more information, please visit the website.

GLASSCO GLASS

For more information, please visit the website.

AISI 304 STEEL

CLEANING

Washing and cleaning can be done manually or in a washing machine.

A wide range of products and cleaning methods can be used:

- Detergents, powder detergents, and soaps
- Non-abrasive powders
- Solvents

However, we recommend the following: wash with water using dishwashing detergent and rinse.

DO NOT USE:

- Chlorinated or iodized products and their derivatives
- Abrasive products

Disinfection and/or sterilization can be performed by any method, such as chemical disinfection, dry heat, steam...

The group:

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Laboratory supplies

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