

ProChiller ULK 1002 N

Recirculating Chiller



Powerful, space-saving and quiet recirculating chiller for lab, production and industry. Customisable thanks to a wide range of available options. Environmentally friendly and future-orientated thanks to natural refrigerants: reduced refrigerant quantity and considerably lower GWP values (global warming potential), as well as low power consumption.

Characteristics



Environmentally friendly

- energy-saving fan with EC technology
- natural refrigerant with high efficiency reduces power consumption
- lower refrigerant charge quantities per device



Low operating noise

- due to particularly quiet components
- fan adjusts the speed to the demand



User-friendly

- easy filling and emptying thanks to integrated filling funnel and drain valve
- leak-free hose replacement thanks to self-sealing hose connector with quick coupling
- no side ventilation grilles enable compact installation



High-quality components

- touchscreen controller with glass screen and integrated digital display of the fill level and flow display
- branded components for a long service life
- refrigeration unit: hermetically sealed, air-cooled, low-maintenance



Operating safety

- freeze-up and thermal overload protection
- flow monitoring with pump switch off in case of low liquid level
- optical and acoustical alarm
- error messages are displayed in plain text



Options

- Mobile version
- MODbus interface
- Potential-free alarm contact with connection to an external alarm system
- Voltage input for externally setting the set point
- Voltage output for reading the actual value
- Direct measurement of the application's temperature with an external sensor; by subsequently setting the set point, greater temperature stability can be achieved than with a standard system
- Increased pump performance: Magnetically coupled pump
 - Flow pressure 2,8 bar (max.) und flow rate 10l/min (max.)
- Adjustable pump pressure

Technical data

Working temperature range	-10°C to +40°C
Control accuracy at -10°C	+/- 0,5 K
Display resolution	0,1 K
Cooling capacity	
at 20°C	1000 W
at 10°C	800 W
at 0°C	550 W
at -10°C	300 W
Circulation pump	
Flow rate [max.]	12 l/min
Flow pressure [max.]	2,9 bar
Hose connections	12,7 mm
Coolant tank	2,5 to 9,0 l
External dimensions [WxDxH]	35 x 45 x 68 cm
Installation dimensions [WxD]	35 x 75 cm
Weight	39 kg
Noise level [distance 1m]	52 dB(A)
Permitted ambient temperature range	5°C to 40°C
Max. permissible temperature of the coolant	60°C
Electrical connection	230 V / 50 Hz
Power consumption	800 W
Current [max.]	5,0 A
Protection class	IP 20
Class. acc. DIN 12876	I / NFL
Max. operating pressure	25 bar
Refrigerant	R290 (GWP 3*)

Included in the scope of delivery

- Coolant
- Elbow hose nozzle Ø 12,7mm | self-sealing | with quick coupling

Accessories

- Elbow hose nozzle Ø 10mm | self-sealing | with quick coupling
- Hose Ø 10mm | 16 bar | to -20°C | PVC | with fabric
- Hose Ø 12,7mm | 16 bar | to -20°C | PVC | with fabric
- Hose Ø 10mm | thermo-isolated | 16 bar | to -20°C | PVC | with fabric
- Hose Ø 12,7mm | thermo-isolated | 16 bar | to -20°C | PVC | with fabric
- Hose set Ø 10mm | thermo-isolated | 16 bar | to -20°C | PVC | with fabric | 2x2m
- Hose set Ø 12,7mm | thermo-isolated | 16 bar | to -20°C | PVC | with fabric | 2x2m
- Thermal plate TP
for cooling and thermostating in combination with FRYKA recirculation chillers | plate size according to customer requirements