







Powerful, robust and reliable recirculating chiller for laboratories, production and industry with a very good price-performance ratio. 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.

Features

-  **Environmentally friendly**
 - Energy-saving fan with EC technology
 - Natural refrigerant with high efficiency reduces power consumption
 - Lower refrigerant charge quantities per unit
-  **Low operating noise**
 - due to particularly quiet components
 - Fan adjusts the speed to the demand
-  **High-quality components**
 - Touchscreen controller with glass screen and integrated digital display of the fill level
 - Branded components for a long service life
 - Refrigeration unit: hermetically sealed, air-cooled, low-maintenance
-  **Operating safety**
 - Thermal overload protection
 - Pump switch off in case off low liquid level
 - Optical and acoustical alarm
 - Error messages are displayed in plain text

Options

- Mobile version
- MODbus interface
- Potential-free 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

Technical Data

Working temperature range	-10°C to +40°C
Control accuracy at -10°C	+/- 1 K
Display resolution	0,1 K
Cooling capacity	
at 20°C	1100 W
at 10°C	850 W
at 0°C	550 W
at -10°C	160 W
Circulation pump	
Flow rate [max.]	12 l/min
Flow pressure [max.]	3,0 bar
Hose connections	G 3/8" for hose Ø 10mm
Coolant tank	8,5 to 13,5 l
External dimensions [WxDxH]	38,5 x 46,5 x 62 cm
Installation dimensions [WxD]	58,5 x 76,5 cm
Weight	42 kg
Noise level [distance 1m]	49 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	650 W
Current [max.]	4,7 A
Protection class	IP 20
Class. acc. DIN 12876	I / NFL
Max. operating pressure	25 bar
Refrigerant	R290 (GWP 3*)
Minimum room volume (minimum available air volume of the installation space in accordance with DIN EN IEC 61010-2-011)	12,5 m ³

Included in the scope of delivery

- Coolant
- Hose connections for hose diameter 10 mm
- Hose connections for hose diameter 13 mm

Accessories

- Hose Ø 10mm | 16 bar | to -20°C | PVC | with fabric | suitable for hose connection Ø 10mm
- Hose Ø 12,7mm | 16 bar | to -20°C | PVC | with fabric | suitable for hose connection Ø 13mm
- Hose Ø 10mm | thermo-isolated | 16 bar | to -20°C | PVC | with fabric | suitable for hose connection Ø 10mm
- Hose Ø 12,7mm | thermo-isolated | 16 bar | to -20°C | PVC | with fabric | suitable for hose connection Ø 13mm
- Hose set Ø 10mm | thermo-isolated | 16 bar | to -20°C | PVC | with fabric | suitable for hose connection Ø 10mm | 2x2m
- Hose set Ø 12,7mm | thermo-isolated | 16 bar | to -20°C | PVC | with fabric | suitable for hose connection Ø 13mm | 2x2m
- Thermal plate TP
for cooling and thermostating in combination with FRYKA recirculation chillers | plate size according to customer requirements