FLW4003 Recirculating Cooler

over 20 models for laboratory and industry

Recirculating Cooler/Chiller for environmentally friendly cooling The FLW series offers a new generation of chillers for routine cooling applications within the laboratory and industry. The working temperature range covers -15°C to +40°C, the temperature stability of the PID control is ±0.5°C. All units can easily be cleaned and are provided with a splash water proof keypad with LED temperature indication. On the front of the units there is an RS232 interface as well as an alarm shutdown. The filling port is easily accessible placed on the top under a lift-up cover. Another hinged tray serves as a file for the operating manual or other documents concerning the installation. The removable venting grid allows an easy cleaning of the condenser, the drain tap is easily accessible behind the grid. All models include an easily visible level indication. Another advantage is the venting slots are on the front and rear and therefore the units can be placed directly one beside the other (space saving).

Made in Germany

Your advantages

- Ergonomic design and easy operation
- Splash-proof keypad with integrated mains switch
- Large, bright LED display
- Reliable Microprocessor PID temperature control
- Filling level indicator
- Powerful immersion pumps, suitable for continuous operation
- Permissible temperature in return line +80°C
- Easy filling from the top with hinged protective lid
- Low liquid level protection with optical and audible alarm signal
- Integrated stainless steel bath tanks
- Removable venting grid for cleaning of the condenser
- Front drain
- No side vents
- RS232 interface for PC-connection
- IP class according to IEC 60529: 21
- Pressure indicator
- Adjustable bypass for pump pressure
- Water cooled
- Alarm output, potential-free change-over contact (max. 30 VA)
- Liquid cooled
- Pressure Indicator
- By-pass valve to adjust pump pressure
- water cooled

Technical Data

Order No.	9673040
Model series	FL Series
Category	Recirculating Coolers
Working temperature range (°C)	-20 ... +40
Temperature stability (°C)	0.5
Setting / display resolution	0.1 °C

Temperature Display	LED
Cooling capacity (Medium Ethanol)	°C 20 0 -10 kW 4.3 2.2 0.3
Pump capacity flow rate (l/min)	40
Pump capacity flow pressure (psi)	7.25...43.51
Pump connections	G 3/4"
Barbed fittings diameter (inner dia. / mm)	3/4"
Filling volume liters	24 ... 30
Refrigerant	R404A
Digital interface	RS232, Optional Profibus
Ambient temperature	5...40 °C
Dimensions W x L x H (inch)	23.6 x 29.9 x 45.3
Weight (LBS)	280
Included with each unit	2 barbed fittings for tubing 3/4" inner dia. (pump connections G3/4" male). Cooling water connection G 3/4" male with barbed fittings for tubing 1/2" inner dia.
Cooling of compressor	Water
Power requirement V / Hz / A	3x 230/60/10
Available voltage versions	400 V / 3 Ph. / 50 Hz 230 V / 3 Ph. / 60 Hz

Suitable fluids: water, water-glycol mixture, JULABO Thermal bath fluids.

Characteristics

Display

Easy to read
Large LED temperature display for actual value and setpoint (resolution 0.1 °C)

Operation

Simple and fast
Convenient 3-key setpoint adjustment (F models)

Temperature Control

Precise
PID Temperature control with set control parameters, temperature stability ±0.02...±0.2 °C

Refrigeration Technology

Consistent cooling capacity
Easily removable venting grid for quick and easy cleaning

Technical Features

Serial connection
RS232 interface for PC connection, e.g. for data communication and recording of measured values

JULABO Contact

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