



## Product Data Sheet

### FL1203 Recirculating Cooler/Chiller

[Print Data Sheet](#)

#### Product Image



#### Order Information

**Model:** FL1203  
**Order no.:** 9663012

Available mains power:  
 230V / 50Hz  
 115V / 60Hz  
 230V / 60Hz

#### Downloads

+ [EasyTemp Software](#)

#### Similar Models

These models could also be interesting for you:

**[FL1201](#)**  
**[FL1701](#)**  
**[FL1703](#)**

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#### Description

Recirculating Cooler/Chiller for environmentally friendly cooling

The FL series offers a new generation of chillers for routine cooling applications within the laboratory and industry. The working temperature range covers  $-20^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ , the temperature stability of the PID control is  $\pm 0.5^{\circ}\text{C}$ . 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).

#### Advantages

- o Ergonomic design and easy operation
- o Splash-proof keypad with integrated mains switch
- o Large, bright LED display
- o Reliable Microprocessor PID temperature control
- o Filling level indicator
- o Powerful immersion pumps, suitable for continuous operation
- o Permissible temperature in return line  $+80^{\circ}\text{C}$
- o Easy filling from the top with hinged protective lid
- o Low liquid level protection with optical and audible alarm signal
- o Integrated stainless steel bath tanks
- o Removable venting grid for cleaning of the condenser
- o Front drain
- o No side vents
- o RS232 interface for PC-connection
- o IP class according to IEC 60529: 21
- o Pressure indicator
- o Adjustable bypass for pump pressure

#### Technical Specifications

Working temperature range	-20 ... 40 °C
Temperature control	PID
Temperature stability	$\pm 0.5^{\circ}\text{C}$
Display	LED
Display resolution	0.1 °C
Integrated programmer	not available
Heater capacity	0 W
Cooling capacity	20 10 0 -10 -20 °C 1200 900 800 500 200 W
Refrigerant	R404a
Pump capacity	Pressure: 3000 mbar Flow rate: 40 l/min
Digital interfaces	RS232
Filling volume	12 ... 17 Liters
Dimensions (W x L x H)	50 x 76 x 64 cm
Weight	73 kg
Ambient temperature	5...40 °C
Classification according to DIN 12876-1	-

#### Miscellaneous

Included: 2 barbed fittings for tubing 3/4" inner dia. (pump connections G3/4" male)  
 Suitable fluids: water, water-glycol mixture, JULABO Thermal bath fluids