

FL series

The FL series offers a new generation of chillers for routine cooling applications within the laboratory and industry. The working temperature range covers -20°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).

- Working temperature range from -20°C to +40°C
- Permissible temperature in return line +80°C
- Cooling capacities from 0.3 to 11 kW
- Powerful immersion pumps to 60 l/min, 6 bar
- Filling level and pressure indicator
- RS232 interface for PC connection

Type	① FL300	② FL601	FL1201
Width × Depth × Height	cm 25×50×60	32×50×60	50×76×64
Working temperature	°C -20 to +40	-20 to +40	-20 to +40
Temperature accuracy ±	°C 0.5	0.5	0.5
Cooler capacity at 20 / 0 / -10 / -20°C	kW 0.3/0.2/0.15/0.1	0.6/0.4/0.33/0.2	1.2/0.9/0.6/0.3
Pump capacity			
Flow rate	l/min 15	40	40
Pressure	bar 0.35	1.0	1.0
Volume	l 3.0 – 4.5	5.5 – 8.0	12.0 – 17.0
Order No.	10 35 90300	10 35 90601	10 35 91201

Type	FL1203	FL1703	③ FL2503
Width × Depth × Height	cm 50×76×64	50×76×64	60×76×115
Working temperature	°C -20 to +40	-20 to +40	-20 to +40
Temperature accuracy ±	°C 0.5	0.5	0.5
Cooler capacity at 20 / 0 / -10 / -20°C	kW 1.2/0.8/0.5/0.2	1.7/1.0/0.75/0.3	2.5/1.5/1.2/0.55
Pump capacity			
Flow rate	l/min 40	40	40
Pressure	bar 0.5 – 3.0	0.5 – 3.0	0.5 – 3.0
Volume	l 12.0 – 17.0	12.0 – 17.0	19.0 – 27.0
Order No.	10 35 91203	10 35 91703	10 35 92503

Type	FL4006	FL7006	FL11006
Width × Depth × Height	cm 60×76×115	78×85×148	78×85×148
Working temperature	°C -20 to +40	-20 to +40	-20 to +40
Temperature accuracy ±	°C 0.5	0.5	0.5
Cooler capacity at 20 / 0 / -10 / -20°C	kW 4.0/1.9/0.9/0.05	7.0/5.5/3.0/1.7	11.0/7.5/5.0/3.0
Pump capacity			
Flow rate	l/min 60	60	60
Pressure	bar 0.5 – 6.0	0.5 – 6.0	0.5 – 6.0
Volume	l 19.0 – 27.0	25.0 – 35.0	25.0 – 35.0
Order No.	10 35 94006	10 35 97006	10 35 91106



F series

Recirculating cooler for basic cooling tasks

Inexpensive, compact recirculating coolers – the alternative to costly tap water!

The compact recirculating coolers of the F series are low-cost models for routine laboratory applications. The units cool in a temperature range of -10 or 0°C up to +40°C, achieving a temperature stability of $\pm 0.5^\circ\text{C}$. Having a small footprint and no lateral ventilation slots, they also fit in small laboratory spaces. Thanks to their high efficiency, the F series coolers are an economical and environmentally friendly alternative to cooling with tap water. The low procurement costs of the units will pay off within a very short time.

Your benefits:

- Environmentally friendly operation with low energy consumption
- No lateral ventilation slots, units can be set up side by side
- All parts coming into contact with the refrigerant made of stainless steel or high-grade synthetic
- Large, powerful LED temperature indication
- Compact design, small footprint
- Splash-proof membrane keypad
- Outlet valve for straightforward draining
- Easy to fill
- Level indicator



④



⑤



⑥

	④	⑤	⑥
Type	F250	F500	F1000
Width × Depth × Height	cm 24×40×52	37.5×44×59	37.5×49×64
Working temperature	°C -10 – +40	0 – +40	0 – +40
Temperature accuracy ±	°C ±0.5	±0.5	±0.5
Cooler capacity at 20/10/5/0/-5°C kW	0.25/0.22/0.21/0.18/0.09	0.5/0.4/0.3/0.25/–	1/0.7/0.65/0.35/–
Pump capacity			
Flow rate	l/min 15	24	23
Pressure	bar 0.35	0.5	1.0
Volume	l 1.7 – 2.6	5 – 7.5	7 – 9.5
Order No.	10 35 90250	10 35 90500	10 35 91000