

FL300



FL601



FL1201
FL1703

FL Recirculating Coolers

compact models with up to 1.7 kW cooling capacity
for installation below a lab bench

The compact FL models are suited for a wide variety of cooling tasks.
Installation under a lab bench saves valuable space.

- Easy filling from above
- Feed pressure indicator (FL1201 and above)
and filling level indicator (all models)
- Large compensation volume
- Circulating pumps designed for continuous operation
- Permissible return temperature up to +80 °C
- Low liquid level protection with visual and acoustic signals
- May be used with water, water/glycol,
and JULABO *Thermal* bath fluids
- Overload protection for pump motor and cooling machine

Practical recessed grip



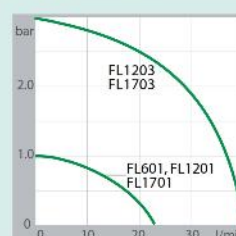
Drain tap located behind
removable venting grid.



Rollers add flexibility



Pump capacity
Bath fluid: Water



JULABO Order No.	JULABO Model	Working temp. range °C	Temp. stability °C	Cooling capacity kW					Pump capacity		Filling volume liters	Dimensions W x L x H cm
				+20	+10	0	-10	-20 °C	Flow rate/pressure	bar		
9 660 003	FL300	-20 ... +40	±0.5	0.3	0.25	0.2	0.15	0.1	15	0.35	3 ... 4.5	25 x 50 x 60
9 661 006	FL601	-20 ... +40	±0.5	0.6	0.5	0.4	0.33	0.2	23	1.0	5.5 ... 8	32 x 50 x 60
9 661 012	FL1201	-20 ... +40	±0.5	1.2	1.0	0.9	0.6	0.3	23	1.0	12 ... 17	50 x 76 x 64
9 663 012	FL1203	-20 ... +40	±0.5	1.2	0.9	0.8	0.5	0.2	40	0.5 - 3.0	12 ... 17	50 x 76 x 64
9 661 017	FL1701	-20 ... +40	±0.5	1.7	1.5	1.1	0.85	0.4	23	1.0	12 ... 17	50 x 76 x 64
9 663 017	FL1703	-20 ... +40	±0.5	1.7	1.4	1.0	0.75	0.3	40	0.5 - 3.0	12 ... 17	50 x 76 x 64

water-cooled models

9 671 017	FLW1701	-20 ... +40	±0.5	1.7	1.5	1.1	0.85	0.4	23	1.0	12 ... 17	50 x 76 x 64
9 673 017	FLW1703	-20 ... +40	±0.5	1.7	1.4	1.0	0.75	0.3	40	0.5 - 3.0	12 ... 17	50 x 76 x 64

Included: 2 each barbed fittings for tubing 8 and 12 mm inner dia. (pump connections M16x1 male)

2 each barbed fittings for tubing 3/4" inner dia. with models FL1203 and FL(W)1703 (pump connections G 3/4" male)



Applications

Rotary evaporators, bio-reactors/fermenters, Soxhlet apparatus, distillation systems, vacuum systems, gas chromatographs, spectrometers, semiconductor applications, metering and adhesive technology, diffusion pumps, mass spectrometers, electron microscopes

FL Recirculating Coolers

powerful models with up to 4.3 kW cooling capacity, tower version

The FL models shown here have higher cooling capacity, powerful circulating pumps, and internal bath volumes of up to 30 liters.

- Powerful circulating pumps up to 60 l/min; 6 bar
- By-pass valve to adjust pump pressure
- Rollers make it easy to move the units
- Early warning function when condenser is dirty
- Overload protection for pump motor and cooling machine
- Stainless steel bath tank
- *BlackBox* function with error memory for remote diagnosis

Filling level indicator
all models



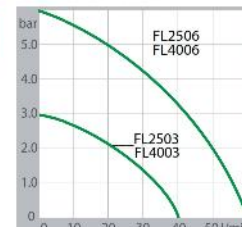
Pump pressure adjustment
models from 3 bar pressure



Pump pressure indicator
on FL1201 and above



Pump capacity
Bath fluid: Water



JULABO Order No.	JULABO Model	Working temp. range °C	Temp. stability °C	Cooling capacity kW					Pump capacity Flow rate/pressure		Filling volume liters	Dimensions W x L x H cm
				+20	+10	0	-10	-20 °C	l/min	bar		
9 663 025	FL2503	-20 ... +40	±0.5	2.5	2.2	1.5	1.2	0.55	40	0.5 - 3.0	24 ... 30	60 x 76 x 115
9 666 025	FL2506	-15 ... +40	±0.5	2.5	1.9	1.0	0.3	--	60	0.5 - 6.0	24 ... 30	60 x 76 x 115
9 663 040	FL4003	-20 ... +40	±0.5	4.0	3.4	2.4	1.5	0.65	40	0.5 - 3.0	24 ... 30	60 x 76 x 115
9 666 040	FL4006	-20 ... +40	±0.5	4.0	2.9	1.9	0.9	0.05	60	0.5 - 6.0	24 ... 30	60 x 76 x 115

water-cooled models

9 673 025	FLW2503	-20 ... +40	±0.5	2.7	2.5	1.7	1.0	0.4	40	0.5 - 3.0	24 ... 30	60 x 76 x 115
9 676 025	FLW2506	-15 ... +40	±0.5	2.5	1.9	1.0	0.3	--	60	0.5 - 6.0	24 ... 30	60 x 76 x 115
9 673 040	FLW4003	-20 ... +40	±0.5	4.3	3.0	2.2	1.3	0.45	40	0.5 - 3.0	24 ... 30	60 x 76 x 115
9 676 040	FLW4006	-15 ... +40	±0.5	4.0	3.0	1.7	0.7	--	60	0.5 - 6.0	24 ... 30	60 x 76 x 115

Included: 2 each barbed fittings for tubing 3/4" inner dia. with models FL/FLW2503 and FL/FLW4003 (pump connections G 3/4" male)
2 each barbed fittings for tubing 1" inner dia. with models FL/FLW2506 and FL/FLW4006 (pump connections G 1 1/4" male)



FL7006 to FLW11006



Applications

Electron microscopes, lasers, mills, and kneaders, pilot plants, plastics industry, drying of gases, general industrial applications

FL Recirculating Coolers

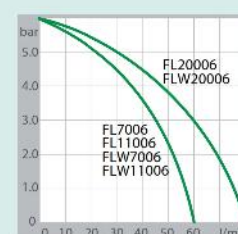
very powerful units, up to 20 kW cooling capacity

The powerful FL models are suitable for a wide range of cooling tasks in industrial environments, such as removal of large process heat.

- High cooling capacity of up to 20 kW
- Powerful circulating pumps
- Large power reserves with all applications
- Low water consumption on FLW models
- Overload protection for pump motor and cooling machine
- *BlackBox* function with error memory for remote diagnosis

Pump capacity

Bath fluid: Water



JULABO Order No.	JULABO Model	Working temp. range °C	Temp. stability °C	Cooling capacity kW					Pump capacity		Filling volume liters	Dimensions W x L x H cm
				+20	+10	0	-10	-20 °C	Flow rate/pressure	bar		
9 666 070	FL7006	-20 ... +40	±0.5	7.0	6.4	5.1	3.0	1.55	60	0.5 - 6.0	39... 47	78 x 85 x 148
9 666 110	FL11006	-20 ... +40	±0.5	11.0	9.0	7.5	5.0	3.0	60	0.5 - 6.0	39... 47	78 x 85 x 148
9 666 200	FL20006	-25 ... +40	±0.5	20.0	15.0	10.0	6.0	2.5	80	0.8 - 6.0	15... 37	95 x 115 x 161
water-cooled models												
9 676 070	FLW7006	-20 ... +40	±0.5	7.4	7.0	5.5	3.1	1.3	60	0.5 - 6.0	39... 47	78 x 85 x 148
9 676 110	FLW11006	-20 ... +40	±0.5	11.5	9.0	7.3	4.8	2.7	60	0.5 - 6.0	39... 47	78 x 85 x 148
9 676 200	FLW20006	-25 ... +40	±0.5	20.0	15.0	12.0	7.0	3.0	80	0.8 - 6.0	15... 37	95 x 115 x 161

Included: 2 each barbed fittings for tubing 1" inner dia. (pump connections G 1 1/4" male)