

FL11006 Powerful recirculating cooler

The powerful FL models are suitable for a wide range of cooling tasks in industrial environments, such as removal of large process heat. 2 variants: Air-cooled (FL) and water-cooled (FLW).

Optional heating function

On request, we also offer our FL recirculating chillers with an additional integrated heating function and other special solutions. Our product experts will be happy to advise you individually in order to design a temperature control unit that is exactly right for your needs. Just give us a call!

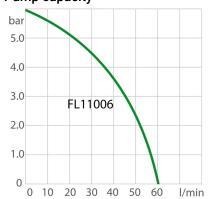


Adde

Product features

- Ergonomic design and easy operation
- Splash-proof keypad
- Large, bright LED display
- 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
- Front drain
- No side vents, instruments can be placed right next to other equipment
- RS232 interface for PC connection
- IP class according to IEC 60529: 21
- Alarm output, potential-free change-over contact (max. 30 VA)
- Pressure Indicator

Pump capacity



Performance values

400V/3PNPE/50Hz (Plug 32A CEE)	
Pump capacity flow rate I/min	60
Pump capacity flow pressure bar	0.5 6
Power consumption A	17



efrigerant variants					
Order No.			9666110.07		
Cooling capacity (Ethanol)					
°C	20	10	0	-10	-20
kW ¹	11	9	7.5	5	1.7
Refrigerant stage 1					
Refrigerant	R452A				
Filling weight g	3100				
Global Warming Potential for R452A	2140				
Carbon dioxide equivalent t	6.634				
Order No.			9666110.S1.07		
Cooling capacity (Ethanol)					
°C	20	10	0	-10	-20
kW ¹	11	9	6	3.4	1.5
Refrigerant stage 1					
Refrigerant	R449A				
Filling weight g	3100				
Global Warming Potential for R449A	1397				
Carbon dioxide equivalent t	4.3307				

¹ Performance specifications measured in accordance with DIN 12876. Cooling capacities up to 20 °C measured with ethanol; over 20 °C with thermal oil unless otherwise specified. Performance specifications apply at an ambient temperature of 20 °C. Performance values may differ with other bath fluids.

Technical data

Available voltage ver	rsions	Cooling	
Order No.	9 666 110	Cooling of compressor	1-stage Air
Available voltage versions:			
9666110.16	230V/3PPE/60Hz (Without Plug) (R449A)		
9666110.07	400V/3PNPE/50Hz (Plug 32A CEE) (R452A)		
9666110.S1.07	400V/3PNPE/50Hz (Plug 32A CEE) (R449A)		
Bath		Other	
Bath tank Stainless steel		Sound pressure level dbA	74
		Classification	Classification I (NFL)
		IP Code	IP 21
		Pump type	Immersion Pump
Electronics		Dimensions and volumes	
Interfaces	Alarm output, RS232,	Weight kg	248
_	Stakei	Barbed fittings inner diameter mm	1"
Temperature control	PID1	Dimensions cm (W \times L \times H)	78 x 85 x 148



Temperature display	LED	Filling volume I	39 47
Temperature setting	Keypad	Pump connections	G1¼" male
Temperature values		Included in delivery	
Setting the resolution of the temperature	0.1	2 each barbed fittings for tubing 1" inner dia (pumpconnections G1	

1/4" male).

Temperature values	
Setting the resolution of the temperature display °C	0.1
Return flow temperature max. °C	80
Working temperature range °C	-20 + 40
Temperature stability °C	±0.5
Ambient temperature °C	+5 +40
Setting the resolution of the temperature display $^\circ\text{C}$	0.1

All Benefits



100% Checked.

100% testing. 100% quality. Each JULABO Circulator undergoes thorough quality testing before leaving the factory.



Green technology.

Development consistently applied environmentally friendly materials and technologies.



JULABO. Quality.

Highest standards of quality for a long product life.



Quick start.

Individual JULABO consultation and comprehensive manuals at your disposal.



Satisfied customers.

11 subsidiaries and more than 100 partners worldwide guarantee fast and qualified JULABO support.



Services 24/7.

Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at www.julabo.com.



Pracisa

PID Temperature control with set control parameters, temperature stability $\pm 0.02... \pm 0.2$ °C



Connection of additional equipment

Stakei connections for solenoid valve