

FCW600 Chiller

The recirculating coolers of the FC series are characterized by an increased working temperature range thanks to their integrated heating. They operate very precisely with a temperature stability of $\pm 0.2\text{ }^{\circ}\text{C}$.



Product features

- Adjustable ratio for feed/return temperatures
- Easy filling system located at the front
- Activation of pump for filling
- Bright MULTI-DISPLAY (LED)
- Upper and lower temperature warning functions with interval tone
- Integrated freezing protection and dry-running protection
- Rapid and easy operation via seamless, splash-proof keypad
- Liquid level indication on the front
- Self-test, reciprocal sensor monitoring, pump motor and compressor overload protection
- Complete shut-down with audible signal in case of an alarm
- removable venting grid for simplified removal of dust
- RS232 interface for PC connection
- High temperature stability
- Integrated heater with 1.2 kW capacity
- Pressure Indicator
- Pressure Indicator

Performance values

230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)	
Heating capacity kW	1.2
Pump capacity flow rate l/min	20
Pump capacity flow pressure bar	0.5
Power consumption A	7

Order No.	9601060.03				
Cooling capacity (Ethanol)					
$^{\circ}\text{C}$	20	10	5	0	-10
kW ¹	0.6	0.47	0.4	0.34	0.21
Refrigerant stage 1					
Refrigerant	R134a				
Filling weight g	325				
Global Warming Potential for R134a	1430				
Carbon dioxide equivalent t	0.46475				

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

Technical data

Available voltage versions		Cooling	
Order No.	9 601 060	Cooling of compressor	1-stage Water
Available voltage versions:		Cooling water pressure max. bar	6
9601060.13	230V/60Hz (Nema N6-20 Plug) (R134a)	Recommended cooling water properties	
9601060.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R134a)	Cooling water temperature range °C	20
9601060.05	230V/50Hz (CH Plug Type SEV 1011) (R134a)	Cooling water difference pressure bar	3.5
Bath		Other	
Bath tank	Stainless steel	Sound pressure level dbA	51
		Classification	Classification III (FL)
		IP Code	IP 21
		Pump type	Immersion Pump
Electronics		Dimensions and volumes	
Interfaces	Alarm output, Profibus optional, RS232, Stakei, Standby-Input	Weight kg	45
External pt100 sensor connection	not available	Cooling Water Connection in	G $\frac{3}{4}$
Temperature control	PID1	Barbed fittings inner diameter mm	8/12 mm
Temperature display	2x LED	Dimensions cm (W x L x H)	36 x 54 x 49
Temperature setting	Keypad	Filling volume l	6 ... 8
		Pump connections	M16x1 male
Temperature values		Included in delivery	
Working temperature range °C	-20 ... +80	2 Barbed fittings for tubing 8 and 12 mm ID. (Pump connections M16x1 male)	
Temperature stability °C	±0.2		
Ambient temperature °C	+5 ... +40		
Setting the resolution of the temperature display °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.



100 % Cooling capacity
'Active Cooling Control' for cooling available throughout the entire working temperature range, fast cool-down even at higher temperatures



For flammable bath fluid
Classification III (FL) according to DIN 12876-1



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.



Precise
PID Temperature control with set control parameters, temperature stability $\pm 0.02 \dots \pm 0.2 \text{ }^\circ\text{C}$



Early warning system for high/low temperature limits
Maximum safety for applications, optical and audible alarm, convertible to automated cut-off function



Connection of additional equipment
Stakei connections for solenoid valve