Product data sheet

FC600 Chiller

Chiller for heating and cooling tasks

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 ±0.2 °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

Performance values

230V/60Hz (Nema N6-20 Plug)	
Heating capacity kW	1.2
Viscosity max. cSt	
Pump capacity flow rate l/min	20
Pump capacity pressure bar	0.5
Power consumption A	7
Voltage Tolerance %	230V | ±10

Order number including voltage version (230V/60Hz)	9600060.13

Cooling capacity (Ethanol)

°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	290
Global Warming Potential for R134a	1430
Carbon dioxide equivalent t	0.4147

[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 versions	
Order No.	9600060
9600060.13	230V 60Hz (Nema N6-20 Plug) (R134a)
9600060.03	230V 50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R134a)
9600060.04	230V 50Hz (UK Plug Type BS1363A) (R134a)
9600060.05	230V 50Hz (CH Plug Type SEV 1011) (R134a)

Cooling

Cooling of compressor	1-stage Air

Bath

Bath tank	Stainless steel

Electronics

Interfaces	Alarm output, Profibus optional, RS232, Stakei, Standby-Input
External pt100 sensor connection	not available
Temperature control	PID1
Temperature display	2x LED
Temperature setting	Keypad

Dimensions and volumes

Weight kg	48
Barbed fittings inner diameter mm	8/12 mm
Total dimensions cm (W × L × H)	36 x 54 x 49
Filling volume l	6 ... 8
Pump connections	M16x1 male

Temperature values	
Working temperature range °C	-20 ... 80
Temperature stability °C	±0.2
Ambient temperature °C	+5 ... +40
Temperature display resolution °C	0.1

Other	
Classification	Classification III (FL)
IP Code	IP 21
Pump type	Immersion Pump
Sound pressure level dB(A)	51

Included in delivery

2 Barbed fittings for tubing 8 and 12 mm ID. (Pump connections M16x1 male)

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 ±0.02...±0.2 °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