

FC1600T Chiller

FC recirculating coolers with a particularly powerful pump and Pt100 connection are preferably used for precise temperature control of large-volume external applications. They can be integrated into process control systems via the permanently integrated analog connection.



Your advantages

- 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
- Connections for external Pt100 sensor
- Analog Connections for programming (0..10V / 0...24mA) and temperature recorder (0V = 0°C)

Technical data

Available voltage versions		Bath	
Order No.	9 600 166	Bath tank	Stainless steel
Available voltage versions:			
9 600 166.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 600 166.13	230V/60Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 600 166.05	230V/50Hz (CH Plug Type SEV 1011)		
9 600 166.04	230V/50Hz (UK Plug Type BS1363A)		
Cooling		Other	
Cooling of compressor	1-stage Air	Sound pressure level dbA	58
		Classification	Classification III (FL)
		IP Code	IP 21
		Pump type	Immersion Pump
Electronics		Dimensions and volumes	
Digital interface	RS232	Weight kg	67
External pt100 sensor connection	integrated	Barbed fittings inner diameter	8/12 mm
Temperature control	PID1	Dimensions cm (W x L x H)	46 x 61 x 49
Temperature display	2x LED	Filling volume l	8 ... 11
Temperature setting	Keypad	Pump connections	M16x1 male
Temperature values			
Working temperature range °C	-15 ... +80		

Temperature stability °C	±0.2
Ambient temperature °C	5 ... 40
Temperature display resolution °C	0.1

Performance values

230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)

230V/50Hz					
Heating capacity kW	1.2				
Cooling capacity (Water Glycol)					
°C	20	10	5	0	-10
kW	1.45	1.05	0.8	0.65	0.25
Refrigerant	R134a				
Filling volume g	380				
Global Warming Potential for R134a	1430				
Carbon dioxide equivalent t	0.543				
Pump capacity flow rate l/min	28				
Pump capacity flow pressure bar	3.5				

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All Benefits



JULABO. Quality.
Highest standards of quality for a long product life.



Green technology.
Development consistently applied environmentally friendly materials and technologies.



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



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



Quick start.
Individual JULABO consultation and comprehensive manuals at your disposal.



Services 24/7.
Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at www.julabo.com.



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



For higher demands
PID Temperature control with drift compensation and adjustable parameters, improved temperature stability for external applications, temperature stability ± 0.01 °C internal, $< \pm 0.1$ °C external.



Control from the external application
External Pt100 sensor connection for precise measurement and control directly in the external application



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



Connection of additional equipment
Stakei connections for solenoid valve, HSP booster pump and HST booster heater



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