

FCW2500T 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.	9 601 256	Bath tank	Stainless steel
Available voltage versions:			
9 601 256.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 601 256.04	230V/50Hz (UK Plug Type BS1363A)		
9 601 256.13	230V/60Hz (Nema N6-20 Plug)		
Cooling		Other	
Cooling of compressor	1-stage Water	Sound pressure level dbA	53
Cooling water pressure max. bar	6	Classification	Classification III (FL)
Cooling water difference pressure bar	3.5 ... 6	IP Code	IP 21
		Pump type	Immersion Pump
Electronics		Dimensions and volumes	
Digital interface	RS232	Weight kg	74
External pt100 sensor connection	integrated	Cooling Water Connection in	G $\frac{3}{4}$
Temperature control	PID1	Barbed fittings inner diameter	8/12 mm
Temperature display	2x LED	Dimensions cm (W x L x H)	46 x 61 x 49
Temperature setting	Keypad	Filling volume l	8 ... 11
		Pump connections	M16x1 male
Temperature values			
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	-20
kW	2.5	2	1.8	1.4	0.8	0.25
Refrigerant	R404A					
Filling volume g	450					
Global Warming Potential for R404A	3922					
Carbon dioxide equivalent t	1.765					
Pump capacity flow rate l/min	28					
Pump capacity flow pressure bar	3.5					

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230V/60Hz (Nema N6-20 Plug)

230V/60Hz						
Heating capacity kW	1.2					
Cooling capacity (Water Glycol)						
°C	20	10	5	0	-10	-20
kW	2.5	2	1.8	1.4	0.8	0.25
Refrigerant	R404A					
Filling volume g	450					
Global Warming Potential for R404A	3922					
Carbon dioxide equivalent t	1.765					
Pump capacity flow rate l/min	28					
Pump capacity flow pressure bar	3.5					

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