

## FC1200S Chiller

Recirculating coolers of the FC series with an increased pump capacity are available for applications with large volumes. Thanks to their integrated heating, they have an increased working temperature range and operate very precisely with a temperature stability of  $\pm 0.2$  °C.



### 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

### Technical data

<b>Available voltage versions</b>		<b>Bath</b>	
Order No.	9 600 123	Bath tank	Stainless steel
Available voltage versions:			
9 600 123.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 600 123.04	230V/50Hz (UK Plug Type BS1363A)		
9 600 123.05	230V/50Hz (CH Plug Type SEV 1011)		
<b>Cooling</b>		<b>Other</b>	
Cooling of compressor	1-stage Air	Sound pressure level dbA	57
		Classification	Classification III (FL)
		IP Code	IP 21
		Pump type	Immersion Pump
<b>Electronics</b>		<b>Dimensions and volumes</b>	
Digital interface	RS232	Weight kg	66
External pt100 sensor connection	not available	Barbed fittings inner diameter	8/10 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
<b>Temperature values</b>			
Working temperature range °C	-15 ... +80		
Temperature stability °C	$\pm 0.2$		
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	1.2	0.85	0.65	0.56	0.26
Refrigerant	R134a				
Filling volume g	450				
Global Warming Potential for R134a	1430				
Carbon dioxide equivalent t	0.644				
Pump capacity flow rate l/min	22				
Pump capacity flow pressure bar	1.2				

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Pump capacity flow rate l/min	22				
Pump capacity flow pressure bar	1.2				

All Benefits



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



**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](http://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 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