

## Product data sheet

# FC1200 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  $\pm 0.2\text{ }^{\circ}\text{C}$ .



### 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

## Performance values

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

Heating capacity kW	1.2
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Pump capacity flow pressure l/min	20
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Pump capacity pressure psi	7.3
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Power consumption A	7
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Voltage Tolerance %	230V   $\pm 10$
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Order number including voltage version (230V/50Hz) 9600120.03

Cooling capacity (Ethanol)

°C	20	10	5	0	-10
kW <sup>1</sup>	1.3	0.95	0.75	0.66	0.37

Refrigerant stage 1

Refrigerant R134a

Filling weight g 720

Global Warming Potential for R134a 1430

Carbon dioxide equivalent t 1.0296

<sup>1</sup> 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. 9600120

Available voltage versions:

9600120.03 230V 50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R134a)

9600120.04 230V 50Hz (UK Plug Type BS1363A) (R134a)

9600120.05 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 lbs 143.3

Barbed fittings inner diameter mm 8/12 mm

Total dimensions in. (W × L × H) 18.1 x 24 x 19.3

Filling volume l 8 ... 11

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

Sound pressure level dbA	53
Classification	Classification III (FL)
IP Code	IP 21
Pump type	Immersion Pump

## 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](http://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