Julaba

FC1200 Chiller

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
- 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
- Pressure Indicator

Performance values

| 230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) | | | |
|---|-----|--|--|
| Heating capacity kW | 1.2 | | |
| Pump capacity flow rate I/min | 20 | | |
| Pump capacity flow pressure bar | 0.5 | | |
| Power consumption A | 7 | | |

| Order No. | | | 9600120.03 | | | | |
|---------------------------------|--------------|------|------------|------|------|--|--|
| Cooling capacity (Ethanol) | | | | | | | |
| °C | 20 | 10 | 5 | 0 | -10 | | |
| kW ¹ | 1.3 | 0.95 | 0.75 | 0.66 | 0.37 | | |
| Refrigerant stage 1 | | | | | | | |
| Refrigerant | R134a | | | | | | |
| Filling weight g | 720 | | | | | | |
| Global Warming Potenti R134a | al for 1430 | | | | | | |
| Carbon dioxide equivale | ent t 1.0296 | | | | | | |

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 versio | ns | Cooling | | | |
|--|--|--|-------------------------|--|--|
| Order No. 9 600 |) 120 | Cooling of compressor 1-stage Air | | | |
| Available voltage versions: | | | | | |
| | //50Hz (Schuko Plug - CEE 7/4 Plug F) (R134a) | | | | |
| 9600120.04 230V (R134 | //50Hz (UK Plug Type BS1363A) 4a) | | | | |
| 9600120.05 230V (R134 | //50Hz (CH Plug Type SEV 1011) 4a) | | | | |
| Bath | | Other | | | |
| Bath tank | Stainless steel | Sound pressure level dbA | 53 | | |
| | | Classification | Classification III (FL) | | |
| | | IP Code | IP 21 | | |
| | | Pump type | Immersion Pump | | |
| | | | | | |
| Electronics | | Dimensions and volumes | | | |
| Interfaces | Alarm output, Profibus | Weight kg | 65 | | |
| | optional, RS232, Stakei, Standby-Input | Barbed fittings inner diameter mm | 8/12 mm | | |
| External pt100 sensor connect | ction not available | Dimensions cm ($W \times L \times H$) | 46 x 61 x 49 | | |
| Temperature control | PID1 | Filling volume I | 8 11 | | |
| Temperature display | 2x LED | Pump connections | M16x1 male | | |
| Temperature setting | Keypad | | | | |
| Temperature values | | Included in delivery | | | |
| Working temperature range °C | C -20 +80 | 2 Barbed fittings for tubing 8 and 12 mm ID. (Pump connections M16x1 male) | | | |
| Temperature stability °C | ±0.2 | | | | |
| | ±0.2 +5 +40 | | | | |
| Ambient temperature °C | | | | | |
| Setting the resolution of the te display °C | | | | | |

All Benefits



100% Checked.

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



100 % Cooling capacity 'Active Cooling Control' for cooling available

throughout the entire working temperature range, fast cool-down even at higher temperatures





Green technology.

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

Development consistently applied environmentally

friendly materials and technologies.

Julaba



JULABO. Quality.

Highest standards of quality for a long product life.



Satisfied customers. 11 subsidiaries and more

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



Precise

PID Temperature control with set control parameters, temperature stability ±0.02...±0.2 °C



Connection of additional equipment Stakei connections for solenoid valve



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.



Early warning system for high/low temperature limits

Maximum safety for applications, optical and audible alarm, convertible to automated cut-off function