

Product data sheet

CF30 Cryo-compact circulator

The basis for routine work and standard tasks in the laboratory

The cryo-compact circulators of the CF series provide powerful cooling and heating capabilities in a space-saving, compact design. The instruments feature 2 kW heating capacity and classification III according to DIN 12876-1. The cryo-compact circulators have pump connections for external temperature control applications and a bath opening for temperature control of small objects.



Product Features

- ✓ Ergonomic design and easy operation
- ✓ Small overall dimensions for lowest space requirement
- ✓ Splash-proof keypad
- ✓ Large, bright LED display
- ✓ Precise PID temperature control
- ✓ RS232 interface for PC connection
- ✓ Adjustable high temperature cut-out, visible via display
- ✓ Pump connections for external temperature applications



Performance values

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

Heating capacity kW

2

Viscosity max. cSt

30

Pump capacity flow pressure l/min

15

Pump capacity pressure bar

0.35

Power consumption A

10

Voltage Tolerance %

230V | ±10

Order number including voltage version (230V/50Hz) 9400330.03

Cooling capacity (Ethanol)

| | | | |
|-----------------|------|------|------|
| °C | 20 | 0 | -20 |
| kW ¹ | 0.32 | 0.25 | 0.15 |

Refrigerant stage 1

Refrigerant R134a

Filling weight g 150

Global Warming Potential for R134a 1430

Carbon dioxide equivalent t 0.2145

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 versions

Order No. 9400330

Available voltage versions:

9400330.13 230V 60Hz (Nema N6-20 Plug) (R134a)

9400330.02 115V 60Hz (Nema N5-20 Plug) (R134a)

9400330.03 230V 50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R134a)

9400330.04 230V 50Hz (UK Plug Type BS1363A) (R134a)

Cooling

Cooling of compressor

1-stage Air

Bath

Bath tank

Stainless steel

Bath cover

integrated

Usable bath opening cm (W x L / D)

16 x 3 / 14

Electronics

Temperature control

PID1

Temperature display

LED

Dimensions and volumes

Weight kg

35

Barbed fittings inner diameter mm

8/12 mm

Total dimensions cm (W x L x H)

24 x 46 x 40

Filling volume l

2 ... 3.5

Pump connections

M16x1 male

Temperature values

| | |
|-----------------------------------|--------------|
| Working temperature range °C | -30 ... +150 |
| Temperature stability °C | ±0.03 |
| Ambient temperature °C | +5 ... +40 |
| Temperature display resolution °C | 0.1 |

Other

| | |
|----------------|-------------------------|
| 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.**

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Precise

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

Refer to www.julabo.com for more information regarding the entire JULABO product portfolio. Technical changes without prior notification.
Images may deviate from the original. | Datasheet No.EN9400330/260113