



## Product Data Sheet

### CF41 Cryo-Compact Circulator

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#### Product Image



#### Order Information

**Model:** CF41  
**Order no.:** 9400341

Available mains power:  
230V / 50Hz  
230V / 60Hz  
115V / 60Hz

#### Downloads

+ [EasyTemp Software](#)

#### Similar Models

These models could also be interesting for you:

**CF31**  
**CF30**  
**CF40**

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#### Description

Cryo-Compact Circulator for internal and external temperature applications

The new CF series offers compact refrigerated/heating circulators. With small overall dimensions the units can even be placed on a very small surface or within a complex installation. All models offer a heating capacity of 2 kW and classification 3 according to DIN12876-1. The maximum ambient temperature of +40°C as well as a ventilation air cooling allow installing the units very closely side by side with other units or directly under a fume hood. Furthermore all the models feature pump connections for external temperature applications and a bath opening for temperature control of small objects directly in the circulator bath. Wetted parts are made of high quality stainless steel or plastic. The instruments provide a reliable Microprocessor electronics with high temperature stability as well as warning and safety functions.

#### Advantages

- o Ergonomic design and easy operation
- o Small overall dimensions for lowest space requirement
- o Splash-proof keypad
- o Bright VFD display and interactive LCD dialog display
- o Highly precise ICC cascade temperature control
- o RS232/RS485 interface for PC connection
- o Electronically adjustable pump stages
- o External Pt100 sensor connection
- o Integrated programmer with 6x60 program steps
- o Early warning system for low liquid level
- o 3-point calibration
- o TCF Temperature Control Features
- o Adjustable high temperature cut-off
- o Classification 3 according to DIN12876-1
- o Pump connections for external temperature applications
- o Bath opening for temperature control of small objects in the bath
- o Front drain

#### Technical Specifications

|   |   |
|---|---|
| Working temperature range               | -40 ... 200 °C  |
| Temperature control                     | ICC   |
| Temperature stability                   | ±0.02 °C  |
| Display                                 | VFD + LCD   |
| Display resolution                      | 0.01 °C   |
| Integrated programmer                   | available   |
| Heater capacity                         | 2000 W  |
| Cooling capacity                        | 20 0 -20 -30 °C<br>470 400 280 120 W                              |
| Refrigerant                             | R404a   |
| Pump capacity                           | Pressure: 700 mbar<br>Suction: 400 mbar<br>Flow rate: 22-26 l/min |
| Digital interfaces                      | RS232, RS485  |
| External Pt100 sensor connection        | available   |
| Bath opening / bath depth (W x L / D)   | 19 x 3 / 19 cm  |
| Filling volume                          | 5.5 Liters  |
| Dimensions (W x L x H)                  | 28 x 46 x 46 cm   |
| Weight                                  | 42 kg   |
| Ambient temperature                     | 5...40 °C   |
| Classification according to DIN 12876-1 | 3 (FL)  |

#### Miscellaneous

Included: 2 each barbed fittings for tubing 8 and 12 mm inner dia. (pump connections M16x1 female)

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