

CF30 Cryo-Compact Circulator

The first choice for routine and straightforward laboratory applications from -40°C to 150°C

Cryo-Compact Circulator for internal and external temperature applications

The 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.



Made in Germany

Your advantages

- Ergonomic design and easy operation
- Small overall dimensions for lowest space requirement
- Splash-proof keypad
- Large, bright LED temperature display
- Precise PID temperature control
- RS232 interface for PC connection
- Adjustable high temperature cut-off
- Classification 3 according to DIN12876-1
- Pump connections for external temperature applications
- Bath opening for temperature control of small objects in the bath
- Front drain

Technical Data

Order No.	9400330		
Model series	Economy		
Category	Cryo-Compact Circulators		
Working temperature range (°C)	-30 ... +150		
Temperature stability (°C)	±0.03		
Setting / display resolution	0.1 °C		
Temperature Display	LED		
Heating capacity (kW)	1		
Cooling capacity (Medium Ethanol)	°C	20	0 -20
	kW	0.32	0.25 0.15
Pump capacity flow rate (l/min)	15		
Pump capacity flow pressure (psi)	5.1		
Bath opening / bath depth (W x L / D inch)	6.3 x 1.2 / 5.5		

Pump connections	M16x1
Barbed fittings diameter (inner dia. / mm)	8 / 12
Filling volume liters	3.5
Refrigerant	R134a
Digital interface	RS232 Optional: Profibus
Ambient temperature	5...40 °C
Dimensions W x L x H (inch)	9.4 x 18.1 x 15.7
Weight (LBS)	77
Classification according to DIN12876-1	Classification III (FL)
Included with each unit	2 each barbed fittings for tubing 8 and 12 mm inner dia. (pump connections M16x1 female).
Cooling of compressor	Air
Power requirement V / Hz / A	115/60/13
Available voltage versions	230 V / 50 Hz 230 V / 60 Hz 115 V / 60 Hz

Characteristics

Display



Easy to read

Large LED temperature display for actual value and setpoint (resolution 0.1 °C)

Operation



Time saving

Comfortable and simple operation for setpoint adjustment

Temperature Control



Precise

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

Technical Features



Serial connection

RS232 interface for PC connection, e.g. for data communication and recording of measured values

Warning & Safety Functions



Protective functions

Adjustable high temperature cut-off or dry-running protection



For flammable bath fluids

Classification III (FL) according to DIN 12876-1