

Cryo-Compact Circulators

Economy

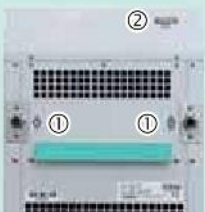


CF30 / CF40
-40 °C ... +150 °C

Basic models for routine and standard applications



- Working temperatures to +150 °C
- Pressure pump
- LED Display for actual value/setpoint (resolution 0.1 °C)
- RS232 interface
- Intuitive operation



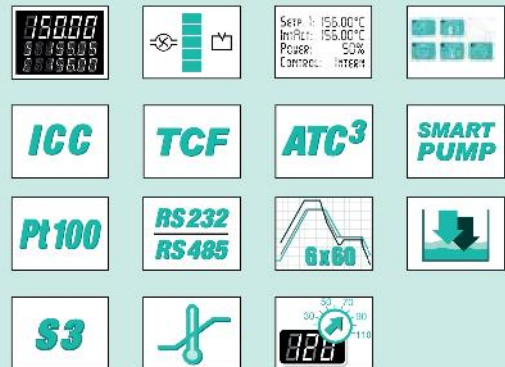
Rear view
① Pump connections
② RS232 Interface

HighTech



CF31 / CF41
-40 °C ... +200 °C

Superior models for most demanding applications



- Working temperatures to +200 °C
- Pressure and suction pump, electronically adjustable
- VFD Comfort Display (resolution 0.01 °C)
- Additional LCD Display for interactive operation
- ICC Cascade Temperature Control
- RS232 / RS485 interface
- Connection for external Pt100 sensor
- Integrated programmer (6 x 60 steps)



Rear view
① Pump connections
② RS232/RS485 Interface
③ Connection for external Pt100 sensor
④ Electronic module (optional)



Applications

External temperature control applications, distillation apparatus and miniplant installations, especially installations with limited space, e.g. in fume hoods

Cryo-Compact Circulators

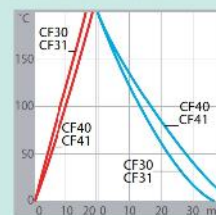
for working temperatures from -40 °C to +200 °C

The CF circulator series provides powerful cooling and heating capabilities in a space-saving, compact design. The instruments feature 2 kW heating capacity with classification III according to DIN 12876-1. The Cryo-Compacts have pump connections for external temperature control applications and a small bath tank for temperature control of small objects.

Cryo-compact circulators, CF series

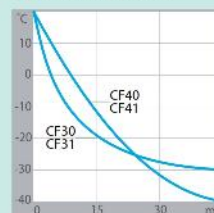
- Extra compact dimensions for easy installation
- Cooling capacities up to 470 Watt
- Permissible ambient temperature up to +40 °C
- Splash-proof keypad
- Pump connections for external temperature control
- Internal bath to immerse small objects, e.g. temperature sensors

Heat-up/Cool-down time
Bath fluid: Thermal



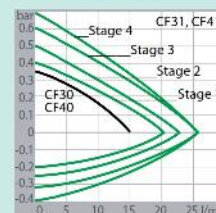
Cool-down time

Bath fluid: Ethanol



Pump capacity

Bath fluid: water



JULABO Order No.	JULABO Model	Working temperature range °C	Temp. stab. °C	Heat. cap. kW	Cooling capacity kW (Bath fluid: Ethanol)				Pump cap./Flow rate			Bath open./Bath depth W x L/D cm	Fill. vol. liters	Dimensions W x L x H cm
					+20	0	-20	-30°C	l/min.	Pressure bar	Suction bar			
9 400 330	CF30	-30 ... +150	±0.03	2	0.32	0.25	0.15	--	15	0.35	--	16 x 3 / 14	3.5	24 x 46 x 40
9 400 340	CF40	-40 ... +150	±0.03	2	0.47	0.4	0.28	0.12	15	0.35	--	19 x 3 / 19	5.5	28 x 46 x 46
9 400 331	CF31	-30 ... +200	±0.02	2	0.32	0.25	0.15	--	22-26	0.4-0.7	0.2-0.4	16 x 3 / 14	3.5	24 x 46 x 40
9 400 341	CF41	-40 ... +200	±0.02	2	0.47	0.4	0.28	0.12	22-26	0.4-0.7	0.2-0.4	19 x 3 / 19	5.5	28 x 46 x 46

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