

CORIO CP-1000FW Refrigerated / heating circulator

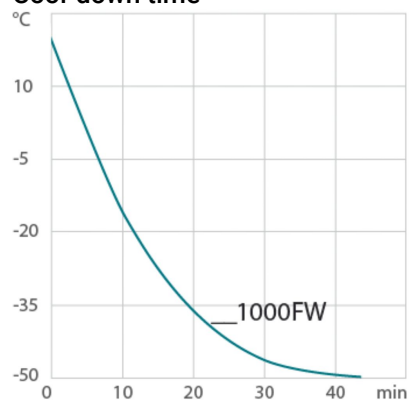
Refrigerated circulators from the CORIO CP range are suitable for applications with a temperature range up to +200°C. The enhanced pump performance ensures they are suitable for easy temperature control tasks in combination with external applications.

Product features

- Models for internal and external applications
- Bright, white, easy to read display
- Very quiet
- powerful and infinitely adjustable pressure pump
- USB connection
- RS232 interface for online communication
- Bath lid and drain tap included
- removable ventilation grid
- Refrigeration unit without side vents
- Class III (FL) according to DIN 12876-1
- easy switching between internal and external circulation
- Integrated pump connection M16×1
- Space-saving cooling coil design yields more usable space in the bath tank
- early warning system for low liquid level

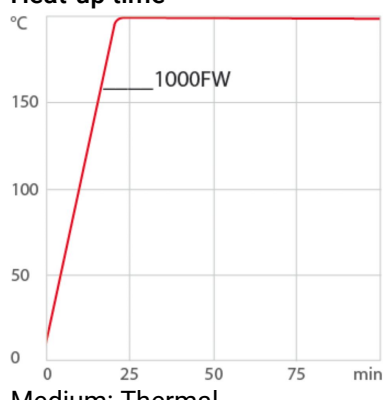


Cool-down time



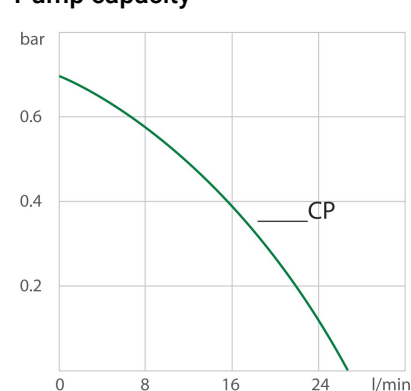
Medium: Ethanol

Heat-up time



Medium: Thermal

Pump capacity



Medium: Water

Performance values

115V/60Hz (Nema N5-20 Plug)

Heating capacity kW	1
Viscosity max. cSt	50
Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7
Power consumption A	16

Order No. 9013727.02

Cooling capacity (Ethanol)

°C	20	10	0	-10	-20	-30	-40
kW	1	1	0.96	0.73	0.51	0.25	0.11

* 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.

Refrigerant stage 1

Refrigerant R449A

Filling weight g 190

Global Warming Potential 1397
for R449ACarbon dioxide equivalent 0.265
t

Technical data

Available voltage versions

Order No. 9 013 727

Available voltage versions:

9013727.02 115V/60Hz (Nema N5-20 Plug) (R449A)

9013727.04 200-230V/50-60Hz (UK Plug Type BS1363A) (R449A)

9013727.05 200-230V/50-60Hz (CH Plug Type SEV 1011) (R449A)

9013727.33 200-230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F) (R449A)

9013727.33.chn 200-230V/50-60Hz (CN Plug) (R449A)

Bath

Bath tank Stainless steel

Bath cover integrated

Usable bath opening cm (W x L / D) 18 x 13 / 15

Cooling

Cooling of compressor 1-stage Water

Cooling water temperature max. °C 30

Cooling water pressure max. bar 6

Cooling water difference pressure bar 0.3

Cooling water consumption l/min 1.1

Other

Classification Classification III (FL)

Pump function Pressure Pump

Pump type Immersion Pump

Electronics

Interfaces RS232, USB

Temperature control PID1

Absolute temperature calibration 3 Point Calibration

Temperature display LED

Temperature setting Keypad

Electronic Timer hr:min 0 ... 999

Dimensions and volumes

Weight kg 51.5

Barbed fittings inner diameter 8/12 mm

Dimensions cm (W x L x H) 42 x 49 x 74

Filling volume l 5 ... 7.5

Pump connections M16x1 male

Temperature values

Setting the resolution of the temperature display °C 0.1

Included in delivery

2 Barbed fittings for tubing 8 and 12 mm ID. (Pump connections M16x1 male)

Working temperature range °C	-50 ... +200
Temperature stability °C	±0.03
Ambient temperature °C	+5 ... +40
Temperature display resolution °C	0.01 ... 0.1

All Benefits



Safety.

CORIO CD and CP comply with Class III (FL) according to DIN 12876-1 and switches off automatically in case of high temperature or low liquid level alarm.



100% Checked.

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



Quick start.

Individual JULABO consultation and comprehensive manuals at your disposal.



Satisfied customers.

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



Services 24/7.

Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at www.julabo.com.



Highest measuring accuracy

'Absolute Temperature Calibration' for manual compensation of a temperature difference, 3-point calibration



Quick support

If an error occurs, the integrated Black-Box function permits fast diagnosis by the JULABO service team



Brilliant.

Very bright display makes it easy to read even from a distance.



Connection. Easy.

Inclined pump connections (M16×1) facilitate the connection of applications. Each unit includes 2 barbed fittings of 8/12 mm diameter each.



Everything at the front.

All operating controls and safety functions are accessed easily and comfortably from the front.



Exact.

You can rely on it. PID1 control and 'Active Cooling Control' make the new CORIO precise and perfect.



Locked in.

The lockable power plug guarantees safe connection. More process safety.



Switch on. And off you go.

Intelligent operating concept. Ready for operation with just a few quick and easy steps.



Timer. Integrated.

CORIO circulators include an integrated timer function. When the set time has elapsed, a signal sounds and the device switches off. Setting range: 0 ... 999 minutes.



Powerful. Adjustable.

Strong pressure pump, continuously adjustable.



Early warning system for low liquid level.

Maximum safety for your application. Optical and audible alarm allows user to refill bath fluid in time.



Connectivity.

Remote control made easy. CORIO CP circulators feature a USB connection and RS232 interface.