

## CORIO CD-1000FW Refrigerated / heating circulator

Refrigerated / heating circulators of the CORIO series distinguish themselves with a great price-to-performance ratio. They are ideal for all standard tasks and routine work in laboratories and industry.

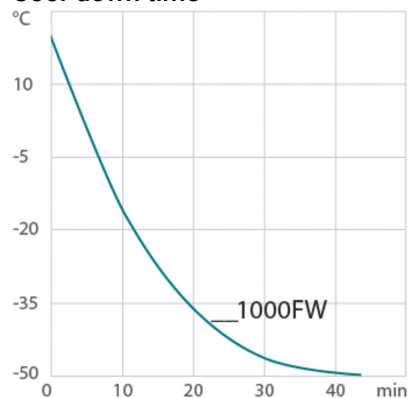
The CORIO CD-1000FW is a water-cooled model.

### Product features

- Models for internal and external applications
- Bright, white, easy to read display
- Very quiet
- USB connection
- Integrated pump connection M16×1
- easy switching between internal and external circulation
- Bath lid and drain tap included
- Removable ventilation grid
- Refrigeration unit without side vents
- Class III (FL) according to DIN 12876-1
- Space-saving cooling coil design provides more usable space in the bath tank

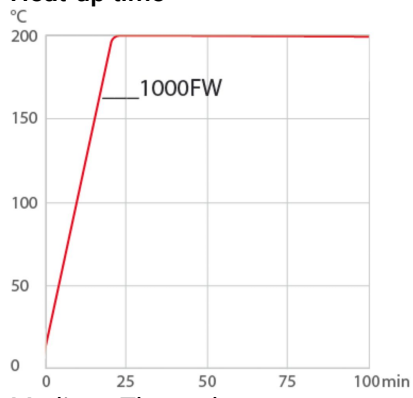


### Cool-down time



Medium: Ethanol

### Heat-up time



Medium: Thermal

### Performance values

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

Heating capacity kW	1
Viscosity max. cSt	50
Pump capacity flow rate l/min	16
Pump capacity flow pressure psi	4.8
Power consumption A	16

Order No. 9012727.02

## Cooling capacity (Ethanol)

°C	20	10	0	-10	-20	-30	-40
kW	1	1	0.98	0.75	0.53	0.27	0.13

\* 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

## 230V/60Hz (Nema N6-20 Plug)

Heating capacity kW	2
Viscosity max. cSt	50
Pump capacity flow rate l/min	17
Pump capacity flow pressure psi	6.2
Power consumption A	14

Order No. 9012727.13

## Cooling capacity (Ethanol)

°C	20	10	0	-10	-20	-30	-40
kW	1	1	0.98	0.75	0.53	0.27	0.13

\* 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  
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## Technical data

## Available voltage versions

Order No.	9 012 727
Available voltage versions:	
9012727.13	230V/60Hz (Nema N6-20 Plug) (R449A)
9012727.03.chn	230V/50Hz (CN Plug) (R449A)
9012727.04	230V/50Hz (UK Plug Type BS1363A) (R449A)

## Bath

Bath tank	Stainless steel
Bath cover	integrated
Usable bath opening in. (W x L / D)	7.1 x 5.1 / 5.9

9012727.05	230V/50Hz (CH Plug Type SEV 1011) (R449A)
9012727.02	115V/60Hz (Nema N5-20 Plug) (R449A)
9012727.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R449A)
9012727.12	200V/50-60Hz (Nema N6-20 Plug) (R449A)

### Cooling

Cooling of compressor	1-stage Water
Cooling water temperature max. °C	30
Cooling water pressure max. psi	87
Cooling water difference pressure psi	4.4
Cooling water consumption l/min	1.1

### Electronics

Interfaces	USB
Temperature control	PID1
Absolute temperature calibration	1 Point Calibration
Temperature display	LED
Temperature setting	Keypad

### Temperature values

Setting the resolution of the temperature display °C	0.1
Working temperature range °C	-40 ... +150
Temperature stability °C	±0.03
Ambient temperature °C	+5 ... +40
Temperature display resolution °C	0.01 ... 0.1

### Other

Classification	Classification III (FL)
IP Code	IP 21
Pump function	Pressure Pump
Pump type	Immersion Pump

### Dimensions and volumes

Weight lbs	113.5
Barbed fittings inner diameter	8/12 mm
Dimensions in. (W × L × H)	16.5 x 19.3 x 29.1
Filling volume l	5 ... 7.5
Pump connections	M16x1 male

### Included in delivery

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

## All Benefits



#### 100% Checked.

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



#### 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.



#### Services 24/7.

Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at [www.julabo.com](http://www.julabo.com).



#### ATC.

Absolute Temperature Calibration, 1-point calibration (CD).



#### Satisfied customers.

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



#### Quick start.

Individual JULABO consultation and comprehensive manuals at your disposal.

**Quick support**

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

**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.

**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.

**Early warning system for low liquid level**

Maximum safety for applications, optical and audible alarm, allows user to refill bath fluid before the unit shuts down

**Connectivity.**

Remote control made easy. CORIO CD circulators feature a USB connection.