

## 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.

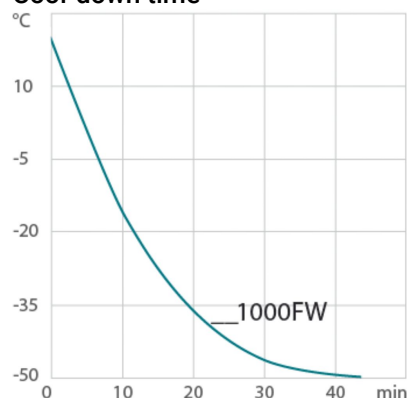
The CORIO CD-1000FW is a water-cooled model.

### 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 yields more usable space in the bath tank

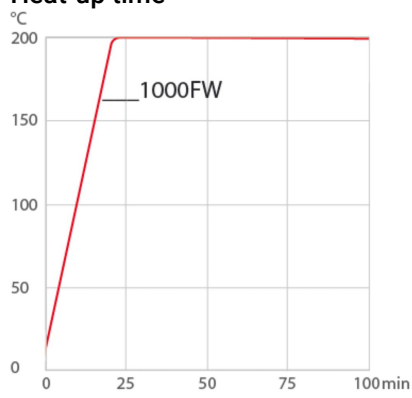


### Cool-down time



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 bar	0.33
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

## 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)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)

## 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)

IP Code IP 21

Pump function Pressure Pump

Pump type Immersion Pump

## Electronics

Interfaces USB

Temperature control PID1

Absolute temperature calibration 1 Point Calibration

Temperature display LED

Temperature setting Keypad

## 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

## Included in delivery

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

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.



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



**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.



**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](http://www.julabo.com).



**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 (M16x1) 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.