

CORIO CD-1000FW Refrigerated / heating circulator

Refrigerated / heating circulators of the new 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.

Product features

- Models for internal and external applications
- Bright, white, easy to read display
- Very quiet
- Easy pump change-over between internal and external circulation
- External pump connections
- USB connection
- Space-saving cooling coil design provides more usable space in the bath tank
- Bath lid and drain tap included
- Removable ventilation grid
- Refrigeration unit without side vents
- Class III (FL) according to DIN 12876-1
- High-quality bath tanks made of stainless steel with bath lid and drain tap



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 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 DIN12876. 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 volume g	190
Global Warming Potential for R449A	1397
Carbon dioxide equivalent t	0.265

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 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 DIN12876. 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 volume g	190
Global Warming Potential for R449A	1397
Carbon dioxide equivalent t	0.265

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 in. (W x L / D)	7.1 x 5.1 / 5.9

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
1.0Cooling 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
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Dimensions and volumes

Weight lbs	113.5
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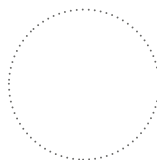
Temperature control	PID1	Barbed fittings inner diameter	8/12 mm
Absolute temperature calibration	1 Point Calibration	Dimensions in. (W x L x H)	16.5 x 19.3 x 29.1
Temperature display	LED	Filling volume l	5 ... 7.5
Temperature setting	Keypad	Pump connections	M16x1 male

Temperature values		Included in delivery	
Setting the resolution of the temperature display °C	0.1	2 Barbed fittings for tubing 8 and 12 mm ID. (Pump connections M16x1 male)	
Working temperature range °C	-40 ... +150		
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.



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



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.