

CORIO CD-1200FW Refrigerated / heating circulator

Refrigerated / heating circulators of the CORIO CD series distinguish themselves with a great price-to-performance ratio. Durable and dependable, they are suitable for a wide range of standard and routine work in both laboratories and industrial environments.

Despite its very compact design, the water-cooled Refrigerated / heating circulator CORIO CD-1200FW, which has a working temperature range of $-40 \dots +150 \text{ }^{\circ}\text{C}$, delivers a powerful cooling capacity of 1.25 kW at 20°C . Water-cooled systems are normally more efficient than air-cooled systems, as water has a higher specific heat capacity than air. In addition, they introduce far less waste heat into the environment, which helps create a pleasant working climate.

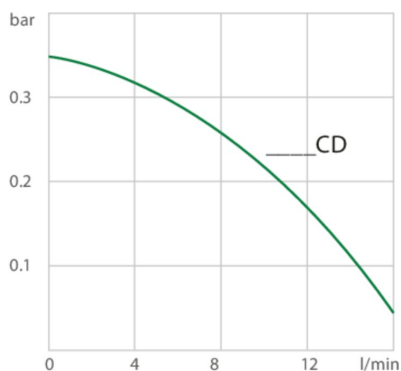
This cooling machine works with natural, environmentally-friendly refrigerant and was developed with a focus on energy efficiency. This means significant savings up to 70% on the operating costs for numerous applications, which also means rapid amortization of the procurement cost. At the same time, the lower energy consumption positively contributes to climate protection.



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

Pump capacity



Medium: Water

Performance values

230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)

Heating capacity kW	2
Viscosity max. cSt	50
Pump capacity flow rate l/min	15
Pump capacity flow pressure psi	5.1
Power consumption A	11

Order No. 9012728.N1.03

Cooling capacity (Ethanol)

°C	20	0	-20	-30	-40
kW ¹	1.25	1.1	0.63	0.38	0.21

Note about natural refrigerants:

Temperature control units using natural refrigerants are often subject to regulatory requirements regarding the installation site, operation, transport or disposal of the units. If you have any questions, we will be happy to advise you.

Refrigerant stage 1

Refrigerant	R1270
Filling weight g	85
Global Warming Potential for R1270	2
Carbon dioxide equivalent t	0.00017

¹ 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.

Technical data

Available voltage versions

Order No.	9 012 728
Available voltage versions:	
9012728.N1.12	200V/50-60Hz (Nema N6-20 Plug) (R1270)
9012728.N1.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R1270)
9012728.N1.01	100V/50-60Hz (Nema N5-20 Plug) (R1270)
9012728.N1.05	230V/50Hz (CH Plug Type SEV 1011) (R1270)
9012728.N1.04	230V/50Hz (UK Plug Type BS1363A) (R1270)
9012728.N1.03.chn	230V/50Hz (CN Plug) (R1270)
9012728.N1.13	230V/60Hz (Nema N6-20 Plug) (R1270)
9012728.N1.02	115V/60Hz (Nema N5-20 Plug) (R1270)

Cooling

Cooling of compressor 1-stage Water

Cooling water pressure max. psi 87

Recommended cooling water properties

Cooling water temperature range °C 30

Cooling water difference pressure psi 4.4

Cooling water consumption l/min 1.1

Bath

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

Other

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

Electronics		Dimensions and volumes	
Interfaces	USB	Weight lbs	92.6
Temperature control	PID1	Barbed fittings inner diameter mm	8/12 mm
Absolute temperature calibration	1 Point Calibration	Dimensions in. (W x L x H)	13 x 18.5 x 27.6
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		
Setting the resolution of the temperature display °C	0.01 ... 0.1		

All Benefits



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



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.



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.



Connection. Easy.
Inclined pump connections (M16x1) facilitate the connection of applications. Each unit includes 2 barbed fittings of 8/12 mm diameter each.



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.