

Product data sheet

CORIO CD-1200F Refrigerated / heating circulator

The new generation of laboratory circulators for routine work and standard tasks

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.

With a working temperature range of $-40 \dots +150 \text{ }^{\circ}\text{C}$, the Refrigerated / heating circulator CORIO CD-1200F delivers an outstanding cooling capacity of 1.25 kW at $20 \text{ }^{\circ}\text{C}$ despite its compact design.

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.

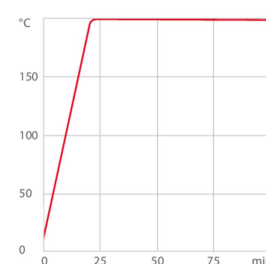


Energy-efficient temperature control

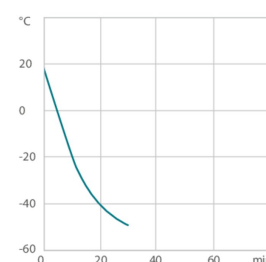
You can really save money with our energy-efficient refrigerated circulators. Thanks to speed-controlled components, power consumption is significantly reduced. This reduces electricity costs by up to 70% over the entire product life cycle. By minimizing energy requirements, you also make a positive contribution to protecting the environment.



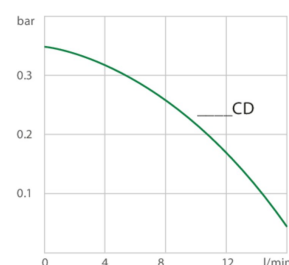
Heat-up time Medium: Thermal



Cool-down time Medium: Ethanol



Pump capacity Medium: Water



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

Performance values

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

Heating capacity kW	2
Viscosity max. cSt	50
Pump capacity flow pressure l/min	15
Pump capacity pressure bar	0.35
Power consumption A	11
Voltage Tolerance %	230V ±10

Order number including voltage version (230V/50Hz) 9012717.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. 9012717

Available voltage versions:

9012717.N1.13	230V 60Hz (Nema N6-20 Plug) (R1270)
9012717.N1.03.chn	230V 50Hz (CN Plug) (R1270)
9012717.N1.04	230V 50Hz (UK Plug Type BS1363A) (R1270)
9012717.N1.05	230V 50Hz (CH Plug Type SEV 1011) (R1270)
9012717.N1.02	115V 60Hz (Nema N5-20 Plug) (R1270)
9012717.N1.03	230V 50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R1270)
9012717.N1.12	200V 50/60Hz (Nema N6-20 Plug) (R1270)
9012717.N1.01	100V 50/60Hz (Nema N5-20 Plug) (R1270)

Cooling

Cooling of compressor 1-stage Air

Bath

Bath tank Stainless steel

Bath cover integrated

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

Electronics

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

Dimensions and volumes

Weight kg	42
Barbed fittings inner diameter mm	8/12 mm
Total dimensions cm (W x L x H)	33 x 47 x 70
Filling volume l	5 ... 7.5
Pump connections	M16x1 male

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

Included in delivery

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

All Benefits



Brilliant.

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



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.



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.

