

Product data sheet

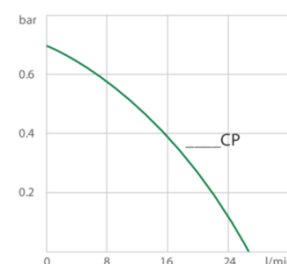
CORIO CP-1200FW Refrigerated / heating circulator

with an enhanced pump performance and a temperature range up to +200 °C

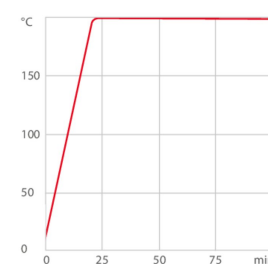
Refrigerated circulators from the CORIO CP range are suitable for applications with a temperature range up to +200°C. The enhanced pump performance ensures they are suitable for easy temperature control tasks in combination with external applications.

Despite its very compact design, the water-cooled Refrigerated / heating circulator CORIO CP-1200FW, which has a working temperature range of -50 ... +200 °C, delivers a powerful cooling capacity of 1.24 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.

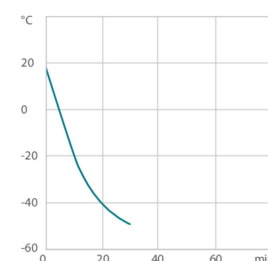
This cooling machine works with natural, environmentally-friendly refrigerant and was developed with a focus on energy efficiency. This means significant savings up to 70% on the operating costs for numerous applications, which also means rapid amortization of the procurement cost. At the same time,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



Heat-up time Medium: Thermal



Cool-down time Medium: Ethanol



Energy-efficient temperature control

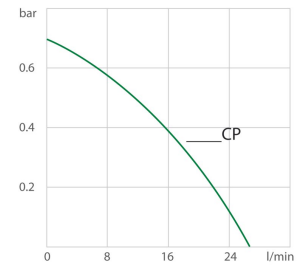
You can really save money with our energy-efficient refrigerated circulators. Thanks to speed-controlled components, power consumption is significantly reduced. This reduces electricity costs by up to 70% over the entire product life cycle. By minimizing energy requirements, you also make a positive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



Product Features

- ✓ Models for internal and external applications
- ✓ Bright, white, easy to read display
- ✓ Very quiet
- ✓ powerful and infinitely adjustable pressure pump
- ✓ USB connection
- ✓ RS232 interface for online communication
- ✓ Bath lid and drain tap included
- ✓ removable ventilation grid

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 pressure l/min 8 ... 27

Pump capacity pressure bar 0.1 ... 0.7

Power consumption A 11

Voltage Tolerance % 230V | ±10

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

9013728.N1.33

Cooling capacity 1 (Ethanol)

°C	20	0	-20	-30	-40
kW ¹	1.24	1.09	0.62	0.37	0.2

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. 9013728

Available voltage versions:

9013728.N1.33.chn 200-230V 50/60Hz (CN Plug) (R1270)

9013728.N1.33 200-230V 50/60Hz (Schuko Plug - CEE 7/4 Plug Type F) (R1270)

9013728.N1.05 200-230V 50/60Hz (CH Plug Type SEV 1011) (R1270)

9013728.N1.04 200-230V 50/60Hz (UK Plug Type BS1363A) (R1270)

9013728.N1.22 100-115V 50/60Hz (Nema N5-20 Plug) (R1270)

Cooling

Cooling of compressor 1-stage Water

Cooling water pressure max. bar 6

Recommended cooling water properties

Cooling water temperature range °C 10 ... 15

Cooling water difference pressure bar 3.5 ... 6

Cooling water consumption l/min 1.1

Permissible cooling water properties

Cooling water temperature range °C 5 ... 35

Cooling water difference pressure bar 0.5 ... 6

Bath

Bath tank Stainless steel

Bath cover integrated

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

Electronics

Interfaces RS232, USB

Temperature control PID1

Absolute temperature calibration 3 Point Calibration

Temperature display LED

Temperature setting Keypad

Electronic Timer h:min 0 ... 999

Dimensions and volumes

Weight kg 51.5

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	-50 ... +200
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.



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.



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.



Powerful. Adjustable.

Strong pressure pump, continuously adjustable.



Early warning system for low liquid level.

Maximum safety for your application. Optical and audible alarm allows user to refill bath fluid in time.



Connectivity.

Remote control made easy. CORIO CP circulators feature a USB connection and RS232 interface.