

CORIO CP-1200FW Refrigerated / heating circulator

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 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.

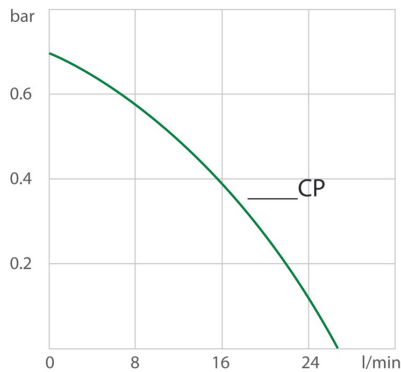
This cooling machine works with natural, environmentally-friendly refrigerant and was developed with a focus on energy efficiency. This means significant savings up to 70% on the operating costs for numerous applications, which also means rapid amortization of the procurement cost. At the same time, 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
- powerful and infinitely adjustable pressure pump
- USB connection
- RS232 interface for online communication
- Bath lid and drain tap included
- removable ventilation grid
- Refrigeration unit without side vents
- Class III (FL) according to DIN 12876-1
- easy switching between internal and external circulation
- Integrated pump connection M16×1
- Space-saving cooling coil design yields more usable space in the bath tank
- early warning system for low liquid level

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	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7
Power consumption A	11

Order No.	9013728.N1.33				
Cooling capacity (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.	9 013 728
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)

Cooling	
Cooling of compressor	1-stage Water
Cooling water pressure max. bar	6
Recommended cooling water properties	
Cooling water temperature range °C	30
Cooling water difference pressure bar	0.3
Cooling water consumption l/min	1.1

9013728.N1.04	200-230V/50-60Hz (UK Plug Type BS1363A) (R1270)
9013728.N1.22	100-115V/50-60Hz (Nema N5-20 Plug) (R1270)

Bath	
Bath tank	Stainless steel
Bath cover	integrated
Usable bath opening cm (W x L / D)	18 x 13 / 15

Other	
Classification	Classification III (FL)
IP Code	IP 21
Pump function	Pressure Pump
Pump type	Immersion Pump

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
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
Setting the resolution of the temperature display °C	0.01 ... 0.1

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.



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.



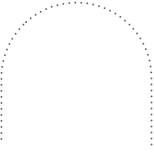
Everything at the front.
All operating controls and safety functions are accessed easily and comfortably from the front.



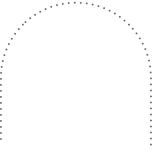
Exact.
You can rely on it. PID1 control and 'Active Cooling Control' make the new CORIO precise and perfect.



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.



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.