

CORIO CP-1000FW Refrigerated / heating circulator

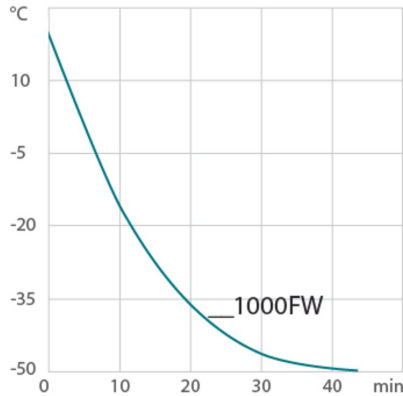
Refrigerated circulators from the CORIO CP range are suitable for applications with a temperature range up to +200°C. The enhanced pump performance ensures they are suitable for easy temperature control tasks in combination with external applications.



Product features

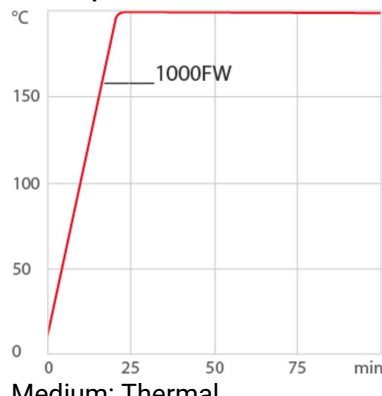
- Models for internal and external applications
- Bright, white, easy to read display
- Very quiet
- powerful and infinitely adjustable pressure pump
- USB connection
- RS232 interface for online communication
- Bath lid and drain tap included
- Removable ventilation grid
- Refrigeration unit without 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 provides more usable space in the bath tank
- early warning system for low liquid level

Cool-down time



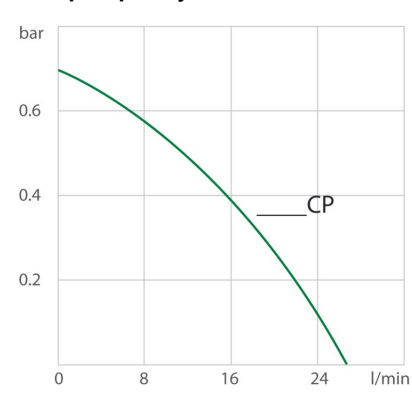
Medium: Ethanol

Heat-up time



Medium: Thermal

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 psi	1.5 ... 10.2
Power consumption A	16

Order No.	9013727.33						
Cooling capacity (Ethanol)							
°C	20	10	0	-10	-20	-30	-40
kW ¹	1	1	0.96	0.73	0.51	0.25	0.11
Refrigerant stage 1							
Refrigerant	R449A						
Filling weight g	190						
Global Warming Potential for R449A	1397						
Carbon dioxide equivalent t	0.26543						

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		Cooling	
Order No.	9 013 727	Cooling of compressor	1-stage Water
Available voltage versions:		Cooling water pressure max. psi	87
9013727.02	115V/60Hz (Nema N5-20 Plug) (R449A)	Recommended cooling water properties	
9013727.04	200-230V/50-60Hz (UK Plug Type BS1363A) (R449A)	Cooling water temperature range °C	30
9013727.05	200-230V/50-60Hz (CH Plug Type SEV 1011) (R449A)	Cooling water difference pressure psi	4.4
9013727.33	200-230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F) (R449A)	Cooling water consumption l/min	1.1
9013727.33.chn	200-230V/50-60Hz (CN Plug) (R449A)		
Bath		Other	
Bath tank	Stainless steel	Classification	Classification III (FL)
Bath cover	integrated	Pump function	Pressure Pump
Usable bath opening in. (W x L / D)	7.1 x 5.1 / 5.9	Pump type	Immersion Pump
Electronics		Dimensions and volumes	
Interfaces	RS232, USB	Weight lbs	113.5
Temperature control	PID1	Barbed fittings inner diameter mm	8/12 mm
Absolute temperature calibration	3 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
Electronic Timer h:min	0 ... 999		
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	-50 ... +200		
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.



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.



100% Checked.
100% testing. 100% quality. Each JULABO Circulator undergoes thorough quality testing before leaving the factory.



Quick start.
Individual JULABO consultation and comprehensive manuals at your disposal.



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.



Satisfied customers.
11 subsidiaries and more than 100 partners worldwide guarantee fast and qualified JULABO support.



Services 24/7.
Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at www.julabo.com.



Highest measuring accuracy
'Absolute Temperature Calibration' for manual compensation of a temperature difference, 3-point calibration



Quick support
If an error occurs, the integrated Black-Box function permits fast diagnosis by the JULABO service team