

CORIO CP-1001F Refrigerated / heating circulator

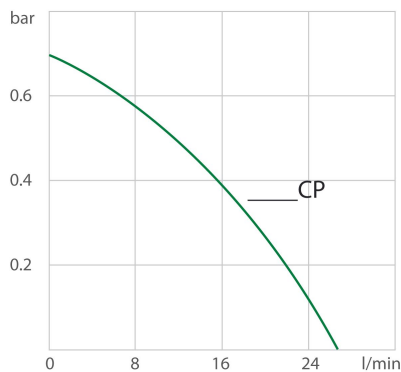
Refrigerated circulators from the CORIO CP range are suitable for applications with a temperature range up to +200°C. The enhanced pump performance ensures they are suitable for easy temperature control tasks in combination with external applications.

Product features

- Models for internal and external applications
- Bright, white, easy to read display
- Very quiet
- Easy pump change-over between internal and external circulation
- External pump connections
- 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
- Unique early warning system for low liquid level
- Class III (FL) according to DIN 12876-1
- Space-saving cooling coil design yields 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	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7
Power consumption A	16

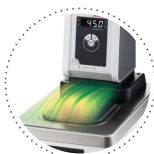
Order No.	9013708.33					
Cooling capacity (Ethanol)						
°C	20	10	0	-10	-20	-30
kW	1	0.95	0.9	0.6	0.32	0.12
* Performance specifications measured in accordance with DIN 12876. Cooling capacities up to 20 °C measured with ethanol; over 20 °C with thermal oil unless otherwise specified. Performance specifications apply at an ambient temperature of 20 °C. Performance values may differ with other bath fluids.						
Refrigerant stage 1						
Refrigerant	R449A					
Filling weight g	170					
Global Warming Potential for R449A	1397					
Carbon dioxide equivalent t	0.237					

Technical data

Available voltage versions		Bath	
Order No.	9 013 708	Bath tank	Stainless steel
Available voltage versions:		Bath cover	integrated
9013708.04	230V/50-60Hz (UK Plug Type BS1363A) (R449A)	Usable bath opening cm (W x L / D)	35 x 41 / 30
9013708.05	230V/50-60Hz (CH Plug Type SEV 1011) (R449A)		
9013708.33	230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F) (R449A)		
9013708.33.chn	230V/50-60Hz (CN Plug) (R449A)		
Cooling		Other	
Cooling of compressor	1-stage Air	Classification	Classification III (FL)
		IP Code	IP 21
		Pump function	Pressure Pump
		Pump type	Immersion Pump
Electronics		Dimensions and volumes	
Interfaces	RS232, USB	Weight kg	73.7
Temperature control	PID1	Barbed fittings inner diameter	8/12 mm
Absolute temperature calibration	3 Point Calibration	Dimensions cm (W x L x H)	45 x 64 x 95
Temperature display	LED	Filling volume l	42 ... 56
Temperature setting	Keypad	Pump connections	M16x1 male
Electronic Timer hr: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	-38 ... +100		
Temperature stability °C	±0.03		

Ambient temperature °C	+5 ... +40
Temperature display resolution °C	0.01 ... 0.1

All Benefits



Condensation protection.
Superb design solution. Integrated ventilation directs air over the bath lid and minimizes condensation.



Handle with ease.
Makes day-to-day work easy. Comfortably move your JULABO Circulator around by using the ergonomic handles (front and rear).



Internal. External.
The pump is controlled via a lever located directly below the display. Easily change between internal and external circulation.



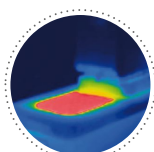
Mobile.
Extra easy handling. Integrated castors for easy repositioning of refrigerated circulators.



More bath.
Designed for more comfort. Thanks to the recessed cooling coil, the internal bath provides more space.



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.



Solid.
Minimized energy loss through high-quality insulation.



Space saving. Free up space.
Place your JULABO Circulator right next to an application, another unit, or wall. That saves space. This is made possible by eliminating vents and connections on the sides.



Stable.
Rubber feet allow for a secured footing of your CORIO to prevent damage to your laboratory equipment.



Tidy.
The special drain tap for easy draining of bath fluids without tools.



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



Green technology.
Development consistently applied environmentally friendly materials and technologies.



Touching permitted.
Optimum safety. The ergonomic plastic handle protects your fingers from hot surfaces.



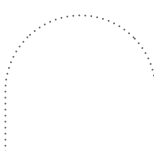
JULABO. Quality.
Highest standards of quality for a long product life.



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



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



Connection. Easy.

Inclined pump connections (M16×1) facilitate the connection of applications. Each unit includes 2 barbed fittings of 8/12 mm diameter each.



Exact.

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



Switch on. And off you go.

Intelligent operating concept. Ready for operation with just a few quick and easy steps.



Powerful. Adjustable.

Strong pressure pump, continuously adjustable.



Connectivity.

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



Brilliant.

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



Everything at the front.

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



Locked in.

The lockable power plug guarantees safe connection. More process safety.



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.



Early warning system for low liquid level.

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