

## 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
- 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
- Space-saving cooling coil design provides more usable space in the bath tank
- 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



### Performance values

115V/60Hz (Nema N5-20 Plug)	
Heating capacity kW	1
Viscosity max. cST	50
Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure psi	1.5 ... 10.2
Power A	16

Order No.	9013727.02						
Cooling capacity (Ethanol)							
°C	20	10	0	-10	-20	-30	-40
kW	1	1	0.96	0.73	0.51	0.25	0.11
* Performance specifications measured in accordance with DIN12876. 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 volume g	190						
Global Warming Potential for R449A	1397						
Carbon dioxide equivalent t	0.265						

## Technical data

<b>Available voltage versions</b>		<b>Bath</b>	
Order No.	9 013 727	Bath tank	Stainless steel
Available voltage versions:		Bath cover	integrated
9013727.02	115V/60Hz (Nema N5-20 Plug) (R449A)	Usable bath opening in. (W x L / D)	7.1 x 5.1 / 5.9
9013727.04	200-230V/50-60Hz (UK Plug Type BS1363A) (R449A)		
9013727.05	200-230V/50-60Hz (CH Plug Type SEV 1011) (R449A)		
9013727.33	200-230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F) (R449A)		
9013727.33.chn	200-230V/50-60Hz (CN Plug) (R449A)		
<b>Cooling</b>		<b>Other</b>	
Cooling of compressor	1-stage Water	Classification	Classification III (FL)
Cooling water temperature max. °C	30	Pump function	Pressure Pump
Cooling water pressure max. psi	87	Pump type	Immersion Pump
Cooling water difference pressure psi	4.4		
1.0Cooling water consumption l/min	1.1		
<b>Electronics</b>		<b>Dimensions and volumes</b>	
Interfaces	RS232, USB	Weight lbs	113.5
Temperature control	PID1	Barbed fittings inner diameter	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 displayTemperature display	LED	Filling volume l	5 ... 7.5
Temperature settingTemperature setting	Keypad	Pump connections	M16x1 male
Electronic Timer hr:min	0 ... 999		
<b>Temperature values</b>		<b>Included in delivery</b>	
Working temperature range °C	-50 ... +200	2 Barbed fittings for tubing 8 and 12 mm ID. (Pump connections M16x1 male)	
Temperature stability °C	±0.03		

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

**All Benefits**



**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.



**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



**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.