

## CORIO CP-300F 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.

### Your advantages

- 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 yields more usable space in the bath tank
- Bath lid and drain tap included
- Removable ventilation grid
- Refrigeration unit without side vents
- Class III (FL) according to DIN 12876-1



### Technical data

<b>Available voltage versions</b>		<b>Bath</b>	
Order No.	9 013 703	Bath tank	Stainless steel
<b>Available voltage versions:</b>		Bath cover	integrated
9 013 703.01	100V/50-60Hz (Nema N5-15 Plug)	Usable bath opening cm (W x L / D)	13 x 15 / 15
9 013 703.02	115V/60Hz (Nema N5-15 Plug)		
9 013 703.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 013 703.03.chn	230V/50Hz (CN Plug)		
9 013 703.04	230V/50Hz (UK Plug Type BS1363A)		
9 013 703.05	230V/50Hz (CH Plug Type SEV 1011)		
9 013 703.13	230V/60Hz (Nema N6-20 Plug)		
<b>Cooling</b>		<b>Other</b>	
Cooling of compressor	1-stage Air	Classification	Classification III (FL)
		Pump function	Pressure Pump
		Pump type	Immersion Pump
<b>Electronics</b>		<b>Dimensions and volumes</b>	
Temperature control	PID1	Weight kg	28
Absolute temperature calibration	1 Point Calibration	Barbed fittings inner diameter	8/12 mm
Temperature display	LED	Dimensions cm (W x L x H)	24 x 42 x 66
Temperature setting	Keypad	Filling volume l	3 ... 4
Electronic Timer hr:min	0 ... 999	Pump connections	M16x1 male
<b>Temperature values</b>			
Working temperature range °C	-25 ... +200		
Temperature stability °C	±0.03		
Ambient temperature °C	+5.0 ... +40.0		
Temperature display resolution °C	0.01 ... 0.1		

## Performance values

### 100V/50-60Hz (Nema N5-15 Plug)

100V/50Hz							100V/60Hz																				
Heating capacity kW							0.8							Heating capacity kW							0.8						
Cooling capacity (Ethanol)														Cooling capacity (Ethanol)													
°C	200	20	10	0	-10	-20								°C	200	20	10	0	-10	-20							
kW	0.3	0.3	0.3	0.27	0.19	0.08								kW	0.3	0.3	0.3	0.27	0.19	0.08							
Viscosity max. cST							50							Viscosity max. cST							50						
Refrigerant							R134a							Refrigerant							R134a						
Filling volume g							100							Filling volume g							100						
Global Warming Potential for R134a							1430							Global Warming Potential for R134a							1430						
Carbon dioxide equivalent t							0.143							Carbon dioxide equivalent t							0.143						
Pump capacity flow rate l/min							8 ... 27							Pump capacity flow rate l/min							8 ... 27						
Pump capacity flow pressure bar							0.1 ... 0.7							Pump capacity flow pressure bar							0.1 ... 0.7						

### 115V/60Hz (Nema N5-15 Plug)

115V/60Hz													
Heating capacity kW							1						
Cooling capacity (Ethanol)													
°C	200	20	10	0	-10	-20							
kW	0.3	0.3	0.3	0.27	0.19	0.08							
Viscosity max. cST							50						
Refrigerant							R134a						
Filling volume g							100						
Global Warming Potential for R134a							1430						
Carbon dioxide equivalent t							0.143						
Pump capacity flow rate l/min							8 ... 27						
Pump capacity flow pressure bar							0.1 ... 0.7						

### 230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)

230V/50Hz							230V/60Hz																				
Heating capacity kW							2							Heating capacity kW							2						
Cooling capacity (Ethanol)														Cooling capacity													
°C	200	20	10	0	-10	-20								°C													
kW	0.3	0.3	0.3	0.27	0.19	0.08								kW													
Viscosity max. cST							50							Viscosity max. cST							50						
Refrigerant							R134a							Pump capacity flow rate l/min							8 ... 27						
Filling volume g							100							Pump capacity flow pressure bar							0.1 ... 0.7						
Global Warming Potential for R134a							1430																				
Carbon dioxide equivalent t							0.143																				
Pump capacity flow rate l/min							8 ... 27																				
Pump capacity flow pressure bar							0.1 ... 0.7																				

### 230V/50Hz (CN Plug)

230V/50Hz						
Heating capacity kW	2					
Cooling capacity (Ethanol)						
°C	200	20	10	0	-10	-20
kW	0.3	0.3	0.3	0.27	0.19	0.08
Viscosity max. cST	50					
Refrigerant	R134a					
Filling volume g	100					
Global Warming Potential for R134a	1430					
Carbon dioxide equivalent t	0.143					
Pump capacity flow rate l/min	8 ... 27					
Pump capacity flow pressure bar	0.1 ... 0.7					

### 230V/50Hz (UK Plug Type BS1363A)

230V/50Hz						
Heating capacity kW	2					
Cooling capacity (Ethanol)						
°C	200	20	10	0	-10	-20
kW	0.3	0.3	0.3	0.27	0.19	0.08
Viscosity max. cST	50					
Pump capacity flow rate l/min	8 ... 27					
Pump capacity flow pressure bar	0.1 ... 0.7					

### 230V/50Hz (CH Plug Type SEV 1011)

230V/50Hz						
Heating capacity kW	2					
Cooling capacity (Ethanol)						
°C	200	20	10	0	-10	-20
kW	0.3	0.3	0.3	0.27	0.19	0.08
Viscosity max. cST	50					
Refrigerant	R134a					
Filling volume g	100					
Global Warming Potential for R134a	1430					
Carbon dioxide equivalent t	0.143					
Pump capacity flow rate l/min	8 ... 27					
Pump capacity flow pressure bar	0.1 ... 0.7					

230V/60Hz	
Heating capacity kW	2
Cooling capacity	
°C	
kW	
Viscosity max. cST	50
Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7

### 230V/60Hz (Nema N6-20 Plug)

208V/60Hz						
Heating capacity kW	1.6					
Cooling capacity						
°C	200	20	10	0	-10	-20
kW	0.3	0.3	0.3	0.27	0.19	0.08

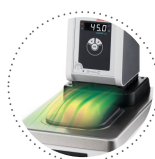
230V/60Hz						
Heating capacity kW	2					
Cooling capacity (Ethanol)						
°C	200	20	10	0	-10	-20
kW	0.3	0.3	0.3	0.27	0.19	0.08

Viscosity max. cST	50	Viscosity max. cST	50
Refrigerant	R134a	Refrigerant	R134a
Filling volume g	100	Filling volume g	100
Global Warming Potential for R134a	1430	Global Warming Potential for R134a	1430
Carbon dioxide equivalent t	0.143	Carbon dioxide equivalent t	0.143
Pump capacity flow rate l/min	8 ... 27	Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7	Pump capacity flow pressure bar	0.1 ... 0.7

## All Benefits



**ATC.**  
Absolute Temperature Calibration, 1-point calibration (CD).



**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).



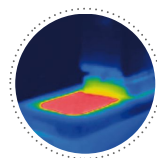
**Internal. External.**  
The pump is controlled via a lever located directly below the display. Easily change between internal and external circulation.



**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.



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



**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.



**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](http://www.julabo.com).



**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.



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



**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.



**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.



**Early warning system for low liquid level.**  
Maximum safety for applications, optical and audible alarm, allows user to refill bath fluid before the unit shuts down



**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.