CORIO CD-1001F Refrigerated – Heating Circulator

Refrigerated / Heating Circulators of the new CORIO series distinguish themselves with a great price-to-performance ratio. They are ideal for all standard tasks and routine work in laboratories and industry.

Your advantages

- Models for internal and external applications
- Very quiet
- Bright, white, easy to read display
- Easy pump change-over between internal and external circulation
- USB connection
- External pump connections
- Class III (FL) according to DIN 12876-1
- Space-saving cooling coil design yields more usable space in the bath tank
- High-quality bath tanks made of stainless steel with bath lid and drain tap
- Bath lid and drain tap included
- Removable ventilation grid
- Refrigeration unit without side vents
- Very quiet

Technical data

Available voltage versions	
Order No.	9 012 708
Available voltage versions:	
9 012 708.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)
9 012 708.03.chn	230V/50Hz (CN Plug)
9 012 708.04	230V/50Hz (UK Plug Type BS1363A)
9 012 708.05	230V/50Hz (CH Plug Type SEV 1011)
9 012 708.13	230V/60Hz (Schuko Plug - CEE 7/4 Plug Type F)
9 012 708.12	200V/50-60Hz (Nema N6-20 Plug)

Bath	
Bath tank	Stainless steel
Bath cover	integrated
Usable bath opening cm (W x L / D)	35 x 41 / 30

Cooling	
Cooling of compressor	1-stage Air

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

Electronics	
Temperature control	PID1
Absolute temperature calibration	1 Point Calibration
Temperature display	LED
Temperature setting	Keypad

Dimensions and volumes	
Weight kg	74
Barbed fittings inner diameter	8/12 mm
Dimensions cm (W × L × H)	45 x 64 x 95
Filling volume l	42 ... 56
Pump connections	M16x1 male

Temperature values	
Setting the resolution of the temperature display °C	0.1
Working temperature range °C	-38 ... +100
Temperature stability °C	±0.03

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

Performance values

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

230V/50Hz							
Heating capacity kW				2			
Cooling capacity (Ethanol)							
°C	20	10	0	-10	-20	-30	-40
kW	1	0.95	0.9	0.63	0.35	0.13	
Viscosity max. cST				50			
Refrigerant				R449A			
Filling volume g				170			
Global Warming Potential for R449A				1397			
Carbon dioxide equivalent t				0.237			
Pump capacity flow rate l/min				15			
Pump capacity flow pressure bar				0.35			

230V/50Hz (CN Plug)

230V/50Hz							
Heating capacity kW				2			
Cooling capacity (Ethanol)							
°C	20	10	0	-10	-20	-30	-40
kW	1	0.95	0.9	0.63	0.35	0.13	
Viscosity max. cST				50			
Refrigerant				R449A			
Filling volume g				170			
Global Warming Potential for R449A				1397			
Carbon dioxide equivalent t				0.237			
Pump capacity flow rate l/min				15			
Pump capacity flow pressure bar				0.35			

230V/50Hz (UK Plug Type BS1363A)

230V/50Hz							
Heating capacity kW				2			
Cooling capacity (Ethanol)							
°C	20	10	0	-10	-20	-30	-40
kW	1	0.95	0.9	0.63	0.35	0.13	
Viscosity max. cST				50			
Refrigerant				R449A			
Filling volume g				170			
Global Warming Potential for R449A				1397			
Carbon dioxide equivalent t				0.237			

Pump capacity flow rate l/min	15
Pump capacity flow pressure bar	0.35

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

230V/50Hz							
Heating capacity kW	2						
Cooling capacity (Ethanol)							
°C	20	10	0	-10	-20	-30	-40
kW	1	0.95	0.9	0.63	0.35	0.13	
Viscosity max. cST	50						
Refrigerant	R449A						
Filling volume g	170						
Global Warming Potential for R449A	1397						
Carbon dioxide equivalent t	0.237						
Pump capacity flow rate l/min	15						
Pump capacity flow pressure bar	0.35						

230V/60Hz (Schuko Plug - CEE 7/4 Plug Type F)

230V/60Hz						
Heating capacity kW	2					
Cooling capacity (Ethanol)						
°C	20	10	0	-10	-20	-30
kW	1	0.95	0.9	0.63	0.35	0.13
Viscosity max. cST	50					
Refrigerant	R449A					
Filling volume g	170					
Global Warming Potential for R449A	1397					
Carbon dioxide equivalent t	0.237					
Pump capacity flow rate l/min	17					
Pump capacity flow pressure bar	0.43					

200V/50-60Hz (Nema N6-20 Plug)

200V/50Hz						
Heating capacity kW	1.5					
Cooling capacity (Ethanol)						
°C	20	10	0	-10	-20	-30
kW	1	0.95	0.9	0.63	0.35	0.13
Viscosity max. cST	50					
Refrigerant	R449A					
Filling volume g	170					
Global Warming Potential for R449A	1397					
Carbon dioxide equivalent t	0.237					
Pump capacity flow rate l/min	12					
Pump capacity flow pressure bar	0.3					

200V/60Hz						
Heating capacity kW	1.5					
Cooling capacity (Ethanol)						
°C	20	10	0	-10	-20	-30
kW	1	0.95	0.9	0.63	0.35	0.13
Viscosity max. cST	50					
Refrigerant	R449A					
Filling volume g	170					
Global Warming Potential for R449A	1397					
Carbon dioxide equivalent t	0.237					
Pump capacity flow rate l/min	14					
Pump capacity flow pressure bar	0.33					

All Benefits

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

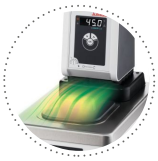
ATC.
Absolute Temperature Calibration, 1-point calibration (CD).

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

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.

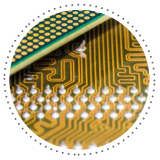
Space saving. Free up space.
Place your JULABO Circulator right next to an application, another unit, or wall. That saves space. This is made possible by eliminating vents and connections on the sides.



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

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

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

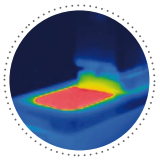


Modern. Reliable.
High-grade components in every JULABO Circulator – platinum sensors, proven motor technology, CAN-Bus communication and much more.

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.



Solid.
Minimized energy loss through high-quality insulation.

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.

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

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

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.

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

Connection. Easy.
Inclined pump connections (M16×1) 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.

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

Connectivity.
Remote control made easy. CORIO CD circulators feature a USB connection.