Julabo

CORIO CD-1000F Refrigerated / heating circulator

Refrigerated / heating circulators of the 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.

Product features

- Models for internal and external applications
- Bright, white, easy to read display
- Very quiet
- USB connection
- Integrated pump connection M16×1
- easy switching between internal and external circulation
- Bath lid and drain tap included
- Removable ventilation grid
- Refrigeration unit without side vents
- Class III (FL) according to DIN 12876-1
- Space-saving cooling coil design provides more usable space in the bath tank

Cool-down time

Heat-up time





Performance values

115V/60Hz (Nema N5-20 Plug)				
Heating capacity kW	1			
Viscosity max. cSt	50			
Pump capacity flow rate I/min	16			
Pump capacity flow pressure psi	4.8			
Power consumption A	16			



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Order No. 9012707.02							
Cooling cap	bacity (Ethai	nol)					
°C	20	10	0	-10	-20	-30	-40
kW	1	1	0.98	0.75	0.53	0.27	0.13
*Performance s unless otherwis	pecifications me e specified. Perfo	asured in accord ormance specific	lance with DIN 1287 cations apply at an a	76. Cooling capacities ambient temperature o	up to 20 °C measured of 20 °C. Performance	with ethanol; over 20 values may differ with	°C with thermal oil other bath fluids.
Refrigerant sta	age 1						
Refrigerant		R449A					
Filling weig	ht g	190					
Global War for R449A	ming Potent	tial 1397					
Carbon dio t	xide equival	ent 0.2654	13				
230V/60Hz (N	lema N6-20 Plu	ug)					
leating capacity	kW					2	
iscosity max. c						50	
Pump capacity fl						17	
Pump capacity fl		si				6.2	
ower consumpt	tion A					14	
Order No.				901270	7.13		
Cooling cap	bacity (Ethai	nol)					
°C	20	10	0	-10	-20	-30	-40
kW	1	1	0.98	0.75	0.53	0.27	0.13
*Performance s unless otherwis	pecifications mea e specified. Perfo	asured in accord ormance specific	lance with DIN 1287 cations apply at an a	76. Cooling capacities ambient temperature o	up to 20 °C measured of 20 °C. Performance	with ethanol; over 20 values may differ with	°C with thermal oil other bath fluids.
Refrigerant sta	age 1						
Refrigerant		R449A					
Filling weig	ht g	190					
Global War for R4494	ming Potent	tial 1397					

for R449A Carbon dioxide equivalent 0.26543 t

Technical data

Available voltage versions		Bath		
Order No.	9 012 707	Bath tank	Stainless steel	
Available voltage versions:		Bath cover	integrated	
9012707.13	230V/60Hz (Nema N6-20 Plug) (R449A)	Usable bath opening in. (W x L / D)	7.1 x 5.1 / 5.9	
9012707.03.chn	230V/50Hz (CN Plug) (R449A)			
9012707.04	230V/50Hz (UK Plug Type BS1363A) (R449A)			



9012707.05	230V/50Hz (CH Plug Type SEV 1011) (R449A)
9012707.02	115V/60Hz (Nema N5-20 Plug) (R449A)
9012707.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R449A)
9012707.12	200V/50-60Hz (Nema N6-20 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	USB	Weight lbs	113.5
Temperature control	PID1	Barbed fittings inner diameter	8/12 mm
Absolute temperature calibration	1 Point Calibration	Dimensions in. ($W \times L \times H$)	16.5 x 19.3 x 29.1
Temperature display	LED	Filling volume l	5 7.5

Temperature setting	Keypad	
Temperature values		
Setting the resolution of the temperature display °C	0.1	
Working temperature range °C	-40 +150	
Temperature stability °C	±0.03	
Ambient temperature °C	+5 +40	
Temperature display resolution °C	0.01 0.1	

Included in delivery

Pump connections

2 Barbed fittings for tubing 8 and 12 mm ID. (Pump connections M16x1 male) $\,$

M16x1 male

All Benefits



100% Checked.

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



Handle with ease.

Makes day-to-day work easy. Comfortably move your CORIO around by using the ergonomic handles (front and rear).



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.



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

Mobile.

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



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.



Modern. Reliable. High-grade components in every JULABO

Circulator - platinum sensors, proven motor technology, CAN-Bus communication and much more.



Satisfied customers.

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



Solid. Minimized energy loss through high-quality insulation.



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



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



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.



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.



Internal. External.

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

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.

Services 24/7.

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



Stable.

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



Touching permitted.

protects your fingers from hot surfaces.



Optimum safety. The ergonomic plastic handle



Quick start.

Individual JULABO consultation and comprehensive manuals at your disposal.



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.

Timer. Integrated.

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.





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.