

CORIO CD-200F Refrigerated / heating circulator

Refrigerated / heating circulators of the CORIO CD series distinguish themselves with a great price-to-performance ratio. Durable and dependable, they are suitable for a wide range of standard and routine work in both laboratories and industrial environments.

With a working temperature range of -20 ... +150 °C, the Refrigerated / heating circulator CORIO CD-200F delivers an outstanding cooling capacity of 0.22 kW at 20°C despite its compact design. The optimized design of the bath tank and cooling coil makes the bath more spacious and user-friendly for the operator. Ventilation slots and connections are located on the front and rear, allowing several units to be placed next to each other in order to save space.

With natural refrigerant

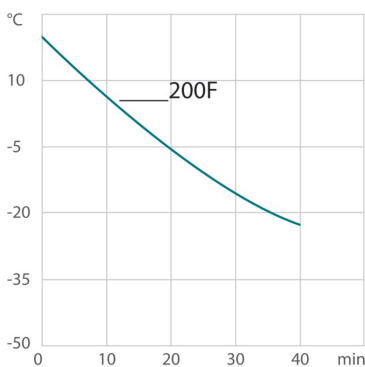
The CORIO CD-200F is available with natural refrigerant. Order No. 9012701.N1.03



Product features

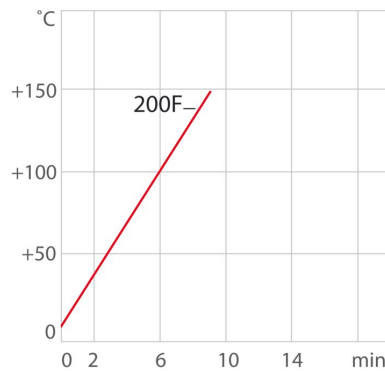
- Models for internal and external applications
- Bright, white, easy to read display
- Very quiet
- USB connection
- Integrated pump connection M16×1
- easy switching between internal and external circulation
- Bath lid and drain tap included
- removable ventilation grid
- Refrigeration unit without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

Cool-down time



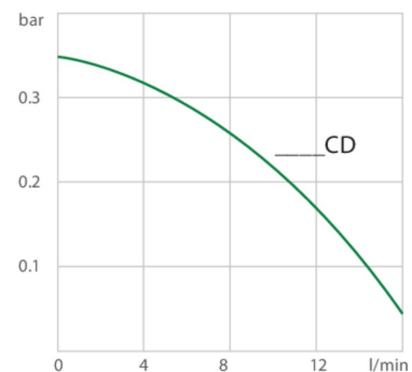
Medium: Ethanol

Heat-up time



Medium: Thermal

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	15
Pump capacity flow pressure bar	0.35
Power consumption A	12

Refrigerant variants

Order No.	9012701.03			
Cooling capacity (Ethanol)				
°C	20	0	-10	-20
kW ¹	0.22	0.17	0.13	0.06
Refrigerant stage 1				
Refrigerant	R134a			
Filling weight g	70			
Global Warming Potential for R134a	1430			
Carbon dioxide equivalent t	0.1001			

Order No.	9012701.N1.03			
Note about natural refrigerants: Temperature control units using natural refrigerants are often subject to regulatory requirements regarding the installation site, operation, transport or disposal of the units. If you have any questions, we will be happy to advise you.				
Refrigerant stage 1				
Refrigerant	R290			
Filling weight g	25			
Global Warming Potential for R290	3			
Carbon dioxide equivalent t	7.5E-5			

¹ 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.

Technical data

Available voltage versions		Cooling	
Order No.	9 012 701	Cooling of compressor	1-stage Air
Available voltage versions:			
9012701.13	230V/60Hz (Nema N6-20 Plug) (R134a)		
9012701.N1.13	230V/60Hz (Nema N6-20 Plug) (R290)		
9012701.05	230V/50Hz (CH Plug Type SEV 1011) (R134a)		
9012701.N1.05	230V/50Hz (CH Plug Type SEV 1011) (R290)		
9012701.04	230V/50Hz (UK Plug Type BS1363A) (R134a)		

9012701.N1.04	230V/50Hz (UK Plug Type BS1363A) (R290)
9012701.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R134a)
9012701.N1.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R290)
9012701.03.chn	230V/50Hz (CN Plug) (R134a)
9012701.N1.03.chn	230V/50Hz (CN Plug) (R290)
9012701.02	115V/60Hz (Nema N5-15 Plug) (R134a)
9012701.N1.02	115V/60Hz (Nema N5-15 Plug) (R290)
9012701.01	100V/50-60Hz (Nema N5-15 Plug) (R134a)
9012701.N1.01	100V/50-60Hz (Nema N5-15 Plug) (R290)

Bath	
Bath tank	Stainless steel
Bath cover	integrated
Usable bath opening cm (W x L / D)	13 x 15 / 15

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

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

Dimensions and volumes	
Weight kg	26
Barbed fittings inner diameter mm	8/12 mm
Dimensions cm (W x L x H)	23 x 39 x 65
Filling volume l	3 ... 4
Pump connections	M16x1 male

Temperature values	
Setting the resolution of the temperature display °C	0.1
Working temperature range °C	-20 ... +150
Temperature stability °C	±0.03
Ambient temperature °C	+5 ... +40
Setting the resolution of the temperature display °C	0.01 ... 0.1

Included in delivery
 2 Barbed fittings for tubing 8 and 12 mm ID. (Pump connections M16x1 male)

All Benefits



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



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.



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.



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



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.