



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

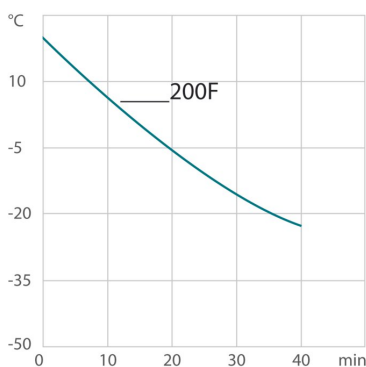
The CORIO CD-200F is available with natural refrigerant. Order No. 9012701.N1.03



### Product features

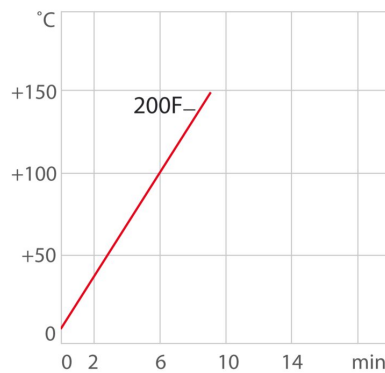
- Models for internal and external applications
- Bright, white, easy to read display
- Very quiet
- USB connection
- Integrated pump connection M16×1
- easy switching between internal and external circulation
- Bath lid and drain tap included
- Removable ventilation grid
- Refrigeration unit without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

### Cool-down time



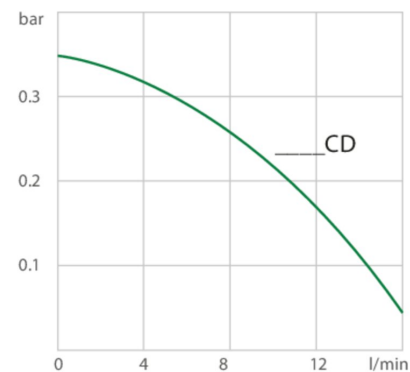
Medium: Ethanol

### Heat-up time



Medium: Thermal

### Pump capacity



Medium: Water

## Performance values

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

Heating capacity kW	1
Viscosity max. cSt	50
Pump capacity flow pressure l/min	16
Pump capacity pressure psi	4.8
Power consumption A	14

## Refrigerant variants

Order number including voltage version 9012701.02

### Cooling capacity (Ethanol)

°C	20	0	-10	-20
kW <sup>1</sup>	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 number including voltage version 9012701.N1.02

### Cooling capacity (Ethanol)

°C	20	0	-10	-20
kW <sup>1</sup>	0.22	0.17	0.13	0.06

### Refrigerant stage 1

Refrigerant	R290
Filling weight g	26
Global Warming Potential for R290	3
Carbon dioxide equivalent t	7.8E-5

<sup>1</sup> 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

Order No.	9012701
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)

### Cooling

Cooling of compressor 1-stage Air

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 in. (W x L / D)	5.1 x 5.9 / 5.9

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 lbs	57.3
Barbed fittings inner diameter mm	8/12 mm
Total dimensions in. (W x L x H)	9.1 x 15.4 x 25.6
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
Temperature display resolution °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.