Product data sheet

CORIO CD-201F Refrigerated / heating circulator

The new generation of laboratory circulators for routine work and standard tasks

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.



The Refrigerated / heating circulator CORIO CD-201F , with a working temperature range of -20 ... 150 °C, offers a powerful cooling capacity of 0.22 kW at 20 °C despite its very compact design.

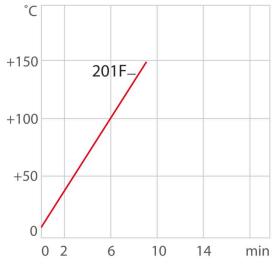
Thanks to its special design, the CORIO CD-201F fits under laboratory shelves and fume hoods with limited headroom. In addition, the bath opening is at an ergonomic working height. If headroom is limited or if a lot of work is done at the bath, the CORIO CD-201F is the ideal solution. In comparison, the CORIO CD-201F is 21 centimeters lower than the 200F, while the 200F is the right choice when table space is limited.

The cooling machine uses a natural, environmentally friendly refrigerant.

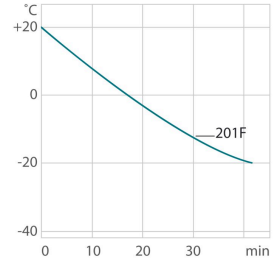
Product Features

- Models for internal and external applications
- Bright, white, easy to read display
- Very quiet
- easy switching between internal and external circulation
- Bath lid and drain tap included
- removable ventilation grid
- Refrigeration unit without side vents
- NRTL certification for the U.S. and Canada: Available upon request

Cool-down time

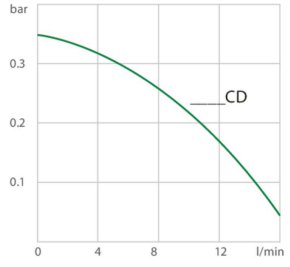


Medium: Thermal



Medium: Ethanol

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 pressure bar	0.35
Power consumption A	12
Voltage Tolerance %	230V | ±10

Order number including voltage version (230V/50Hz) 9012702.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	30
Global Warming Potential for R290	3
Carbon dioxide equivalent t	9.0E-5

Technical data

Available voltage versions	
Order No.	9012702
9012702.N1.01	100V 50/60Hz (Nema N5-15 Plug) (R290)
9012702.N1.02	115V 60Hz (Nema N5-15 Plug) (R290)
9012702.N1.03	230V 50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R290)
9012702.N1.03.chn	230V 50Hz (CN Plug) (R290)
9012702.N1.04	230V 50Hz (UK Plug Type BS1363A) (R290)
9012702.N1.05	230V 50Hz (CH Plug Type T12 / 10A) (R290)
9012702.N1.13	230V 60Hz (Nema N6-20 Plug) (R290)

Cooling

Cooling of compressor	1-stage Air

Bath

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

Electronics

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

Dimensions and volumes

Weight kg	25
Barbed fittings inner diameter mm	8/12 mm
Total dimensions cm (W × L × H)	44 x 41 x 44
Filling volume l	3 ... 4
Pump connections	M16x1 male

Temperature values

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

Other

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

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.



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.



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.



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).



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.

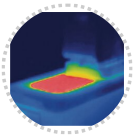


Satisfied customers.

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.



Quick support

If an error occurs, the integrated Black-Box function permits fast diagnosis by the JULABO service team

Refer to www.julabo.com for more information regarding the entire JULABO product portfolio. Technical changes without prior notification. Images may deviate from the original. | Datasheet No.EN9012702/261030