Product data sheet

CORIO CP-201F Refrigerated / heating circulator

with an enhanced pump performance and a temperature range up to +200 °C

Refrigerated circulators from the CORIO CP range are suitable for applications with a temperature range up to +200°C. The enhanced pump performance ensures they are suitable for easy temperature control tasks in combination with external applications.

The Refrigerated / heating circulator CORIO CP-201F , with a working temperature range of -20 ... 200 °C, offers a powerful cooling capacity of 0.2 kW at 20 °C despite its very compact design.

Thanks to its special design, the CORIO CP-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 CP-201F is the ideal solution. In comparison, the CORIO CP-201F is 21 centimeters lower than the 200F, while the 200F is the right choice when table space is limited.

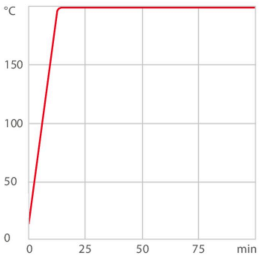
The cooling machine uses a natural, environmentally friendly refrigerant.



Product Features

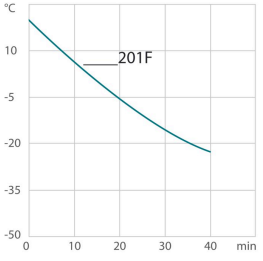
- Models for internal and external applications
- Bright, white, easy to read display
- Very quiet
- powerful and infinitely adjustable pressure pump
- Bath lid and drain tap included
- removable ventilation grid
- Refrigeration unit without side vents
- easy switching between internal and external circulation

Heat-up time



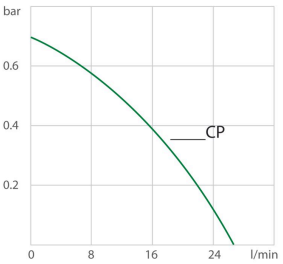
Medium: Thermal

Cool-down time



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	8 ... 27
Pump capacity pressure bar	0.1 ... 0.7
Power consumption A	12
Voltage Tolerance %	230V | ±10

Order number including voltage version (230V/50Hz) 9013702.N1.33

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.	9013702
9013702.N1.01	100V 50/60Hz (Nema N5-15 Plug) (R290)
9013702.N1.02	115V 60Hz (Nema N5-15 Plug) (R290)
9013702.N1.04	230V 50/60Hz (UK Plug Type BS1363A) (R290)
9013702.N1.05	230V 50/60Hz (CH Plug Type T12 / 10A) (R290)
9013702.N1.33	230V 50/60Hz (Schuko Plug - CEE 7/4 Plug Type F) (R290)
9013702.N1.33.chn	230V 50/60Hz (CN 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	RS232, USB
Temperature control	PID1
Absolute temperature calibration	3 Point Calibration
Temperature display	LED
Temperature setting	Keypad
Electronic Timer h:min	0 ... 999

Dimensions and volumes

Weight kg	24.7
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 ... 200
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.



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.



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.



Powerful. Adjustable.

Strong pressure pump, continuously adjustable.



Early warning system for low liquid level.

Maximum safety for your application. Optical and audible alarm allows user to refill bath fluid in time.



Connectivity.

Remote control made easy. CORIO CP circulators feature a USB connection and RS232 interface.



Condensation protection.

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



Handle with ease.

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



Internal. External.

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



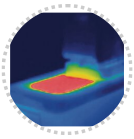
More bath.

Designed for more comfort. Thanks to the recessed cooling coil, the internal bath provides more space.



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.



Solid.

Minimized energy loss through high-quality insulation.



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.



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.



100% Checked.

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



Green technology.

Development consistently applied environmentally friendly materials and technologies.



JULABO. Quality.

Highest standards of quality for a long product life.



Quick start.

Individual JULABO consultation and comprehensive manuals at your disposal.



Satisfied customers.

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



Highest measuring accuracy

'Absolute Temperature Calibration' for manual compensation of a temperature difference, 3-point calibration

Services 24/7.

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



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.EN9013702/261030