

CORIO CP-600F Refrigerated / heating circulator

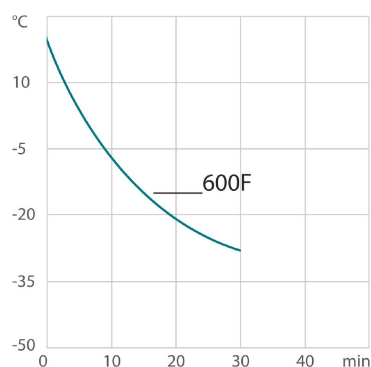
Refrigerated circulators from the CORIO CP range are suitable for applications with a temperature range up to +200°C. The enhanced pump performance ensures they are suitable for easy temperature control tasks in combination with external applications.

Product features

- Models for internal and external applications
- Bright, white, easy to read display
- Very quiet
- powerful and infinitely adjustable pressure pump
- USB connection
- RS232 interface for online communication
- Bath lid and drain tap included
- Removable ventilation grid
- Refrigeration unit without side vents
- Class III (FL) according to DIN 12876-1
- easy switching between internal and external circulation
- Integrated pump connection M16×1
- Space-saving cooling coil design provides more usable space in the bath tank
- early warning system for low liquid level

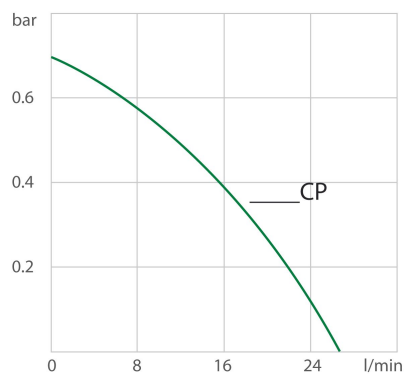


Cool-down time



Medium: Ethanol

Pump capacity



Medium: Water

Performance values

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

Heating capacity kW	1
Viscosity max. cSt	50
Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure psi	1.5 ... 10.2
Power consumption A	12

Order No. 9013704.02

Cooling capacity (Ethanol)

°C	20	10	0	-10	-20	-30
kW	0.6	0.54	0.44	0.27	0.16	0.04

* 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.

Refrigerant stage 1

Refrigerant R449A

Filling weight g 150

Global Warming Potential 1397
for R449ACarbon dioxide equivalent 0.21
t

Technical data

Available voltage versions

Order No. 9 013 704

Available voltage versions:

9013704.01	100V/50-60Hz (Nema N5-15 Plug) (R452A)
9013704.02	115V/60Hz (Nema N5-15 Plug) (R449A)
9013704.33	200-230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F) (R449A)
9013704.04	200-230V/50-60Hz (UK Plug Type BS1363A) (R449A)
9013704.05	200-230V/50-60Hz (CH Plug Type SEV 1011) (R449A)
9013704.33.chn	200-230V/50-60Hz (Nema N5-15 Plug) (R449A)

Bath

Bath tank Stainless steel

Bath cover integrated

Usable bath opening in. (W x L / D) 8.7 x 5.9 / 5.9

Cooling

Cooling of compressor 1-stage Air

Other

Classification Classification III (FL)

IP Code IP 21

Pump function Pressure Pump

Pump type Immersion Pump

Electronics

Interfaces RS232, USB

Temperature control PID1

Absolute temperature calibration 3 Point Calibration

Temperature display LED

Temperature setting Keypad

Electronic Timer hr:min 0 ... 999

Dimensions and volumes

Weight lbs 78.7

Barbed fittings inner diameter 8/12 mm

Dimensions in. (W x L x H) 13 x 18.5 x 27.2

Filling volume l 5 ... 7.5

Pump connections M16x1 male

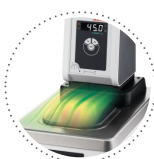
Temperature values

Included in delivery

Setting the resolution of the temperature display °C	0.1
Working temperature range °C	-35 ... +200
Temperature stability °C	±0.03
Ambient temperature °C	+5 ... +40
Temperature display resolution °C	0.01 ... 0.1

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

All Benefits



Condensation protection.

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



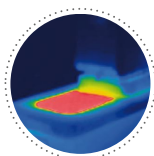
Internal. External.

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.



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.



Touching permitted.

Optimum safety. The ergonomic plastic handle protects your fingers from hot surfaces.



Green technology.

Development consistently applied environmentally friendly materials and technologies.



Quick start.

Individual JULABO consultation and comprehensive manuals at your disposal.



Handle with ease.

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



Mobile.

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



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.



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.



Tidy.

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



100% Checked.

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



JULABO. Quality.

Highest standards of quality for a long product life.



Highest measuring accuracy

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

**Satisfied customers.**

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

**Quick support**

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

**Services 24/7.**

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

**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.