

**Julabo**  
THE TEMPERATURE CONTROL COMPANY

# CORIO™



ENGLISH



## CORIO – the laboratory circulators

Advantages at a glance..... 4



**Refrigerated Circulators** ..... 8

Accessories ..... 16



**Heating Circulators** .....22

Immersion Circulators..... 24

Open Heating Bath Circulators ..... 26

Heating Circulators..... 30

Accessories ..... 36

**Technical Specifications** .....46

# The CORIO advantages at a glance.



## Brilliant.

Bright display with clear illumination can be read easily from a long distance.



## Touching permitted.

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



## Switch on. And off you go.

Intelligent operating concept. Ready for operation with just a few quick and easy steps.



## Connectivity.

Remote control made easy. CORIO CD and CP circulators feature a USB connection and/or RS232 interface (depending on model).



## 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.



## More bath.

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



## Everything at the front.

All operating controls and safety functions are accessed easily and comfortably from the front.



## Space saving. Free up space.

Place your CORIO right next to an application, another unit, or wall. That saves space. This is made possible positioning vents and connections only on the front and rear sides.



## Internal. External.

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



## Handle with ease.

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





### Safety.

CORIO CD and CP complies with Class III (FL), CORIO C complies with Class I (NFL) according to DIN 12876-1. The models switch off automatically in case of high temperature or low liquid level alarm.



### Powerful. Adjustable.

Strong pump capacity, infinitely adjustable (CORIO CP).



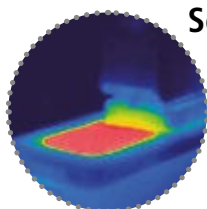
### Early warning system for low liquid level.

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



### ATC.

Absolute Temperature Calibration.



### Solid.

Minimized energy loss through high-quality insulation.



### Exact.

You can rely on it. PID1 control and 'Active Cooling Control' make the new CORIO precise and perfect.



### Mobile.

Extra easy handling. Integrated castors for easy repositioning of refrigerated circulators (600F, 601F, 900F, 1000F, 1001F).



### Locked in.

The lockable power plug guarantees safe connection. More process safety.



### Condensation protection.

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



### Tidy.

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



### Stable.

Rubber feet allow for a secured footing of your CORIO to prevent damage to your laboratory equipment.



### Connection. Easy.

Inclined pump connections (M16x1) facilitate the connection of applications. Each unit includes 2 barbed fittings of 8/12 mm diameter each.





## **CORIO. The best for your laboratory!**

Circulators are an important part of daily work in many laboratories of research institutions and industrial companies worldwide. The JULABO CORIO circulators were developed with pioneering technologies for these laboratories and are manufactured to the highest quality standards in Germany. With the CORIO series, we offer our customers the best price-performance ratio in the basic range of circulator technology. Equipped with all essential core functions, the CORIO circulators are optimized for simple, daily routine work.

Intelligently designed to the core. The simple and modern design of the CORIO circulators allows for easy and time-saving operation and provides quick access to all relevant functions. Thanks to the proven JULABO premium quality, all models meet the highest standards in terms of precision, reliability, and functionality. Other features such as the integrated timer or the bright, easy-to-read display complete the intelligent product design.

Flexible all-rounder.

Universal bath attachment clamp for custom containers, bath tanks in various sizes and designs as well as powerful cooling machines make the CORIO a flexible all-rounder in everyday laboratory work. With a wide selection of accessories, all CORIO devices can be adapted to customer-specific applications in a modular and individual way.

The basic model CORIO C is particularly suitable for precise, internal standard temperature control tasks. Thanks to the powerful integrated pump, the CORIO CD and CP can also be used to easily and safely control external applications – in a wide working temperature range from  $-50\text{ }^{\circ}\text{C}$  to  $+200\text{ }^{\circ}\text{C}$ . With additional features such as the 3-point Absolute Temperature Calibration (ATC3), the CORIO CP guarantees reliable compensation of temperature deviations even when used in larger baths. In addition, the CORIO CP can also be integrated into complex process structures thanks to the RS232 interface.

# Refrigerated Circulators





### **The Refrigerated / Heating Circulators**

of the generation CORIO provide more robustness, more reliability, and more advantages. They are ideal for all standard tasks and routine work in your laboratory.



## Refrigerated Circulators

### CORIO CD Refrigerated/Heating Circulators

for working temperatures from -40 °C to +150 °C

Refrigerated/Heating Circulators of the CORIO series distinguish themselves with a great price-performance ratio. They are ideal for all standard tasks and routine work in laboratories and industry.

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

To adapt the CORIO Refrigerated/Heating Circulator to your individual application, we offer a comprehensive range of accessories (bath fluid, tubing, adapter and more).

#### Applications

Temperature control of samples in a circulator bath or temperature control of an external application. For example measuring cells, refractometers, polarimeters, photometers, viscometers, fermenters, electrophoresis chambers, chromatography columns, rotary evaporators, rheometers and more.



#### Maintenance. Friendly.

The magnetic front grid can be removed easily for user-friendly cleaning and maintenance. Without tools.



## CORIO™ CD-200F

<b>Order No.</b>	<b>9 012 701</b>	
Working temperature range °C	-20 ... +150	
Temperature stability °C	± 0.03	
Heating capacity kW	1 / 2	
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>
	0.22	0.17
	<b>-10 °C</b>	<b>-20 °C</b>
	0.13	0.06
Pump capacity	l/min	psi
Flow rate / Pressure	15	4.8
Bath opening / Bath depth inch	W × L / D 5.1 × 5.9 / 5.9	
Filling volume liters	3 ... 4	
Dimensions inch	W × L × H 9.1 × 15.4 × 25.6	



## CORIO™ CD-201F

<b>Order No.</b>	<b>9 012 702</b>	
Working temperature range °C	-20 ... +150	
Temperature stability °C	± 0.03	
Heating capacity kW	1 / 2	
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>
	0.22	0.16
	<b>-10 °C</b>	<b>-20 °C</b>
	0.12	0.06
Pump capacity	l/min	psi
Flow rate / Pressure	15	4.8
Bath opening / Bath depth inch	W × L / D 5.1 × 5.9 / 5.9	
Filling volume liters	3 ... 4	
Dimensions inch	W × L × H 17.3 × 16.1 × 17.3	

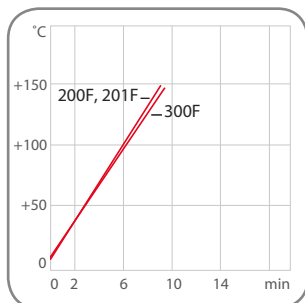


## CORIO™ CD-300F

<b>Order No.</b>	<b>9 012 703</b>	
Working temperature range °C	-25 ... +150	
Temperature stability °C	± 0.03	
Heating capacity kW	1 / 2	
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>
	0.31	0.28
	<b>-10 °C</b>	<b>-20 °C</b>
	0.2	0.11
Pump capacity	l/min	psi
Flow rate / Pressure	15	4.8
Bath opening / Bath depth inch	W × L / D 5.1 × 5.9 / 5.9	
Filling volume liters	3 ... 4	
Dimensions inch	W × L × H 9.4 × 16.5 × 26	

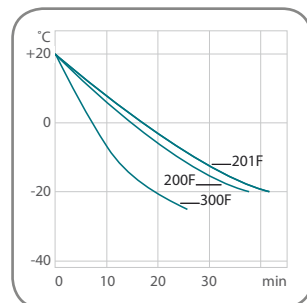
### Heat-up time\*

Bath fluid: Thermal



### Cool-down time

Bath fluid: Ethanol



\*with 2 kW heater / 230V

## Refrigerated Circulators



### CORIO™ CD-600F

<b>Order No.</b>	<b>9 012 704</b>		
Working temperature range °C	-35 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>	<b>-10 °C</b>
	0.6	0.53	0.35
	<b>-20 °C</b>	<b>-30 °C</b>	<b>-40 °C</b>
	0.22	0.1	-
Pump capacity	l/min	psi	
Flow rate / Pressure	16	4.8	
Bath opening / Bath depth inch	W × L / D 8.7 × 5.9 / 5.9		
Filling volume liters	5 ... 7.5		
Dimensions inch	W × L × H 13 × 18.5 × 27.2		

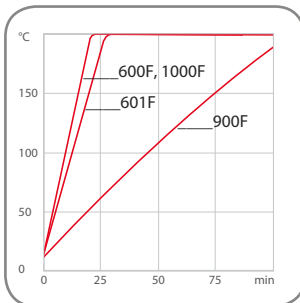


### CORIO™ CD-601F

<b>Order No.</b>	<b>9 012 705</b>		
Working temperature range °C	-40 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>	<b>-10 °C</b>
	0.6	0.5	0.35
	<b>-20 °C</b>	<b>-30 °C</b>	<b>-40 °C</b>
	0.2	0.07	0,01
Pump capacity	l/min	psi	
Flow rate / Pressure	16	4.8	
Bath opening / Bath depth inch	W × L / D 8.7 × 5.9 / 7.9		
Filling volume liters	8 ... 10		
Dimensions inch	W × L × H 14.2 × 18.1 × 29.1		

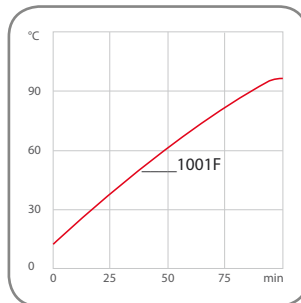
#### Heat-up time\*

Bath fluid: Thermal



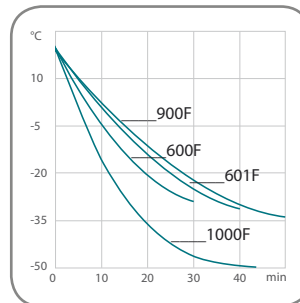
#### Heat-up time\*

Bath fluid: Thermal



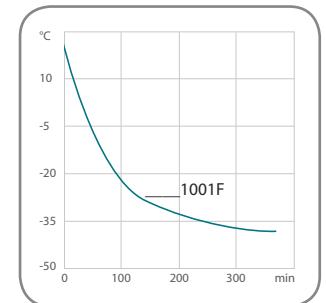
#### Cool-down time

Bath fluid: Ethanol



#### Cool-down time

Bath fluid: Ethanol



\*with 2 kW heater / 230V



## CORIO™ CD-900F

<b>Order No.</b>	<b>9 012 706</b>		
Working temperature range °C	-38 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>	<b>-10 °C</b>
	0.9	0.8	0.55
	<b>-20 °C</b>	<b>-30 °C</b>	<b>-40 °C</b>
	0.35	0.15	0.02
Pump capacity	l/min	psi	
Flow rate / Pressure	16	4.8	
Bath opening / Bath depth inch	W × L / D 10.2 × 13.8 / 7.9		
Filling volume liters	21 ... 30		
Dimensions inch	W × L × H 15.4 × 24.4 × 29.5		

## CORIO™ CD-1000F

<b>Order No.</b>	<b>9 012 707</b>		
Working temperature range °C	-40 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>	<b>-10 °C</b>
	1	0.9	0.73
	<b>-20 °C</b>	<b>-30 °C</b>	<b>-40 °C</b>
	0,5	0,32	0.15
Pump capacity	l/min	psi	
Flow rate / Pressure	16	4.8	
Bath opening / Bath depth inch	W × L / D 7.1 × 5.1 / 5.9		
Filling volume liters	5 ... 7.5		
Dimensions inch	W × L × H 16.5 × 19.3 × 27.6		

## CORIO™ CD-1001F

<b>Order No.</b>	<b>9 012 708</b>		
Working temperature range °C	-38 ... +100		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>	<b>-10 °C</b>
	1	0.9	0.63
	<b>-20 °C</b>	<b>-30 °C</b>	<b>-40 °C</b>
	0.35	0.13	-
Pump capacity	l/min	psi	
Flow rate / Pressure	16	5.1	
Bath opening / Bath depth inch	W × L / D 13.8 × 16.1 / 11.8		
Filling volume liters	42 ... 56		
Dimensions inch	W × L × H 17.7 × 25.2 × 37.4		



### Saves energy.

CORIO models come with various modes for the refrigeration unit: permanently on, permanently off, or on as refrigeration is needed. CORIO CD-600F to CORIO CD-1001 additionally contain a continuous automatic adjustment of the cooling capacity at the operating point to minimize the power consumption and the heat waste.

## Refrigerated Circulators

### CORIO CP Refrigerated/Heating Circulators

for working temperatures from -50 °C to +200 °C

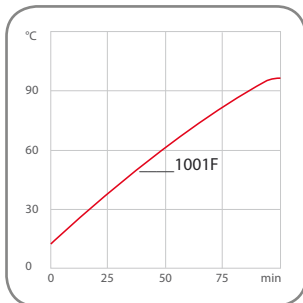
Refrigerated Circulators from the CORIO CP range are suitable for applications with a temperature range from -50°C to +200°C. The enhanced pump performance ensures they are suitable for easy temperature control tasks in combination with external applications.

- Models for internal and external applications
- Bright, white, easy-to-read display
- Very quiet
- Easy change-over from internal to external circulation and vice versa
- External pump connections (M16×1)
- pump capacity, infinitely adjustable
- USB interface
- RS232 interface
- Space-saving cooling coil design provides more usable space in the bath tank
- Bath lid and drain tap included
- Removable ventilation grid
- Refrigeration unit without side vents
- System for low liquid level
- Class III (FL) according to DIN 12876-1

To adapt the CORIO Refrigerated/Heating Circulator to your individual application, we offer a comprehensive range of accessories (bath fluid, tubing, adapter and more)

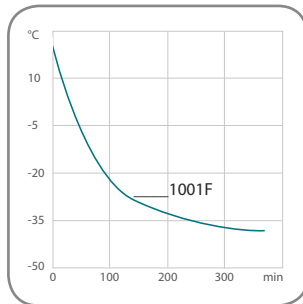
#### Heat-up time\*

Bath fluid: Thermal



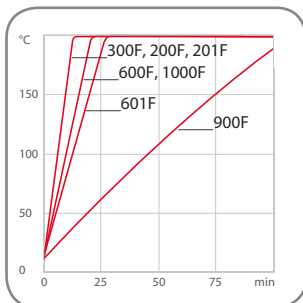
#### Cool-down time

Bath fluid: Ethanol



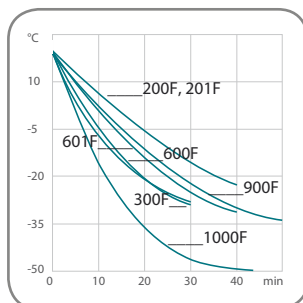
#### Heat-up time\*

Bath fluid: Thermal



#### Cool-down time

Bath fluid: Ethanol



\*with 2 kW heater / 230V



### CORIO™ CP-200F NEW

<b>Order No.</b>	<b>9 013 701</b>	
Working temperature range °C	-20 ... +200	
Temperature stability °C	± 0.03	
Heating capacity kW	1 / 2	
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>
	<b>-10 °C</b>	<b>-20 °C</b>
	0.2	0.15
	0.1	0.02
Pump capacity	l/min	psi
Flow rate / Pressure	8 ... 27	1.5 ... 10.2
Bath opening / Bath depth inch	W × L / D	
	5.1 × 5.9 / 5.9	
Filling volume liters	3 ... 4	
Dimensions inch	W × L × H	
	9.1 × 15.4 × 25.6	



### CORIO™ CP-601F NEW

<b>Order No.</b>	<b>9 013 705</b>		
Working temperature range °C	-35 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>	<b>-10 °C</b>
	<b>-20 °C</b>	<b>-30 °C</b>	<b>-40 °C</b>
	0.6	0.5	0.33
	0.2	0.07	-
Pump capacity	l/min	psi	
Flow rate / Pressure	8 ... 27	1.5 ... 10.2	
Bath opening / Bath depth inch	W × L / D		
	8.7 × 5.9 / 7.9		
Filling volume liters	8 ... 10		
Dimensions inch	W × L × H		
	14.2 × 18.1 × 29.1		



## CORIO™ CP-201F

NEW

<b>Order No.</b>	<b>9 013 702</b>		
Working temperature range °C	-20 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>	
	0.2	0.15	
	<b>-10 °C</b>	<b>-20 °C</b>	
	0.1	0.02	
Pump capacity	l/min	psi	
Flow rate / Pressure	8 ... 27	1.5 ... 10.2	
Bath opening / Bath depth inch	W × L / D 5.1 × 5.9 / 5.9		
Filling volume liters	3 ... 4		
Dimensions inch	W × L × H 17.3 × 16.1 × 17.3		



## CORIO™ CP-300F

NEW

<b>Order No.</b>	<b>9 013 703</b>		
Working temperature range °C	-25 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>	
	0.3	0.27	
	<b>-10 °C</b>	<b>-20 °C</b>	
	0.19	0.08	
Pump capacity	l/min	psi	
Flow rate / Pressure	8 ... 27	1.5 ... 10.2	
Bath opening / Bath depth inch	W × L / D 5.1 × 5.9 / 5.9		
Filling volume liters	3 ... 4		
Dimensions inch	W × L × H 9.4 × 16.5 × 26		



## CORIO™ CP-600F

NEW

<b>Order No.</b>	<b>9 013 704</b>		
Working temperature range °C	-35 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>	<b>-10 °C</b>
	0.6	0.5	0.33
	<b>-20 °C</b>	<b>-30 °C</b>	<b>-40 °C</b>
	0.2	0.07	-
Pump capacity	l/min	psi	
Flow rate / Pressure	8 ... 27	1.5 ... 10.2	
Bath opening / Bath depth inch	W × L / D 8.7 × 5.9 / 5.9		
Filling volume liters	5 ... 7.5		
Dimensions inch	W × L × H 13 × 18.5 × 27.2		



## CORIO™ CP-900F

NEW

<b>Order No.</b>	<b>9 013 706</b>		
Working temperature range °C	-38 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>	<b>-10 °C</b>
	0.9	0.8	0.52
	<b>-20 °C</b>	<b>-30 °C</b>	<b>-40 °C</b>
	0.31	0.11	-
Pump capacity	l/min	psi	
Flow rate / Pressure	8 ... 27	1.5 ... 10.2	
Bath opening / Bath depth inch	W × L / D 10.2 × 13.8 / 7.9		
Filling volume liters	21 ... 30		
Dimensions inch	W × L × H 15.4 × 24.4 × 29.5		



## CORIO™ CP-1000F

NEW

<b>Order No.</b>	<b>9 013 707</b>		
Working temperature range °C	-50 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>	<b>-10 °C</b>
	1	0.9	0.73
	<b>-20 °C</b>	<b>-30 °C</b>	<b>-40 °C</b>
	0.5	0.3	0.13
Pump capacity	l/min	psi	
Flow rate / Pressure	8 ... 27	1.5 ... 10.2	
Bath opening / Bath depth inch	W × L / D 7.1 × 5.1 / 5.9		
Filling volume liters	5 ... 7.5		
Dimensions inch	W × L × H 16.5 × 19.3 × 27.6		



## CORIO™ CP-1001F

NEW

<b>Order No.</b>	<b>9 013 708</b>		
Working temperature range °C	-38 ... +100		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	<b>+20 °C</b>	<b>0 °C</b>	<b>-10 °C</b>
	1	0.9	0.6
	<b>-20 °C</b>	<b>-30 °C</b>	<b>-40 °C</b>
	0.6	0.12	-
Pump capacity	l/min	psi	
Flow rate / Pressure	8 ... 27	1.5 ... 10.2	
Bath opening / Bath depth inch	W × L / D 13.8 × 16.1 / 11.8		
Filling volume liters	42 ... 56		
Dimensions inch	W × L × H 17.7 × 25.2 × 37.4		

## Refrigerated Circulators Accessories

### JULABO Thermal Bath Fluids

JULABO Thermal bath fluids have been carefully chosen following long term testing. They are highly suitable for all of your temperature control applications guaranteeing safe and reliable operation. Choosing the proper bath fluid is critical for high performance temperature control. The viscosity and heat transfer characteristics of the Thermal fluids are specifically selected for use with JULABO temperature control instruments.

#### Advantages

- Broad temperature ranges
- Low viscosity
- High stability
- Good thermal conductivity
- Almost odorless
- Long life



#### Makes routine laboratory work easier.

JULABO Thermal bath fluids are delivered in containers with a handy drain tap.



#### Tidy.

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



### Thermal EG

Order No. 5 liters 8 891 407

Order No. 10 liters 8 891 406

Working temperature range °C -30 ... +80

Flash point °C not applicable

Fire point °C not applicable

Viscosity, (kinematic at +20 °C) mm<sup>2</sup>/s 4.25

Density ( at +20 °C ) g/cm<sup>3</sup> 1.08

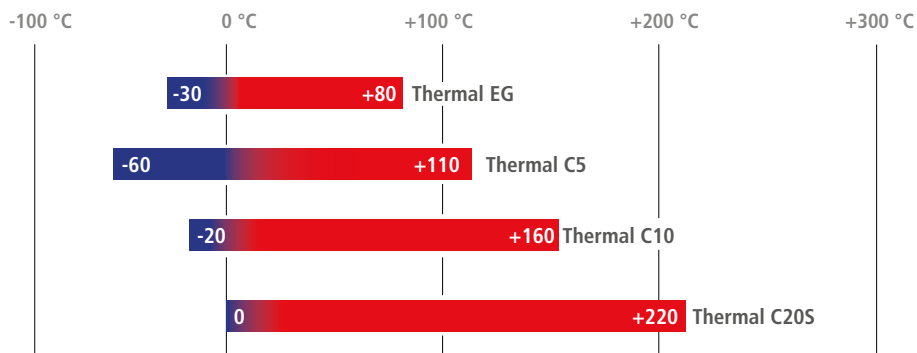
Pour point °C -70

Boiling point °C +108

Ignition temperature °C +410

Color light yellow

#### Working temperature range







## Thermal C5

Order No. 5 liters	8 891 403
Order No. 10 liters	8 891 402
Working temperature range °C	-60 ... +110
Flash point °C	+135
Fire point °C	+443
Viscosity, (kinematic at +20 °C) mm <sup>2</sup> /s	5
Density ( at +20 °C ) g/cm <sup>3</sup>	0.92
Pour point °C	-100
Boiling point °C	+205
Ignition temperature °C	+443
Color	clear



## Thermal C10

Order No. 5 liters	8 891 405
Order No. 10 liters	8 891 404
Working temperature range °C	-20 ... +160
Flash point °C	>+163
Fire point °C	+325
Viscosity, (kinematic at +20 °C) mm <sup>2</sup> /s	10
Density ( at +20 °C ) g/cm <sup>3</sup>	0.93
Pour point °C	<-60
Boiling point °C	+205
Ignition temperature °C	+370
Color	clear



## Thermal C20S

Order No. 5 liters	8 891 409
Order No. 10 liters	8 891 408
Working temperature range °C	0 ... +220
Flash point °C	+232
Fire point °C	+476
Viscosity, (kinematic at +20 °C) mm <sup>2</sup> /s	20
Density ( at +20 °C ) g/cm <sup>3</sup>	0.97
Pour point °C	-60
Boiling point °C	+250
Ignition temperature °C	+476
Color	light brown

### JULABO Thermal bath fluids based on silicone ...

... are chemically inert substances which do not affect metals like iron, copper, zinc, aluminum, chrome or nickel. Compared to other fluids, JULABO Thermal fluids have an extraordinarily low electrical conductivity. When properly stored, the fluids will last for 12 months and longer as they are not susceptible to climatic influences.

### JULABO Thermal bath fluids based on water-glycol ...

... (monoethyleneglycol with anti-corrosion additives) have excellent thermal characteristics and a low viscosity. In addition, they provide anti-freeze protection, i.e. they can be applied at temperatures below the freezing point of water.

### More information on JULABO Thermal bath fluids ...

... in our brochure 'Thermal Bath Fluids' at [www.julabo.com](http://www.julabo.com).



## Refrigerated Circulators Accessories



**Hollow balls** to reduce heat loss, evaporation, oxygen input, odors, action of light

Order No.	Description	Suitable for
8 970 010	Hollow balls, Polypropylene®, 20 mm Ø, 1000 pcs (up to +100 °C, for water only)	C, CD, CP



**Heat exchangers / Cooling installations**

Order No.	Description	Suitable for
9 970 240	Bath cover with built-in heat exchanger	CD-200F, CP-200F, CD-201F, CP-201F, CD-300F, CP-300F
9 970 242	Bath cover with built-in heat exchanger	CD-600F, CP-600F, CD-601F, CP-601F, CD-1000F, CP-1000F



**CR® tubing** (-30 °C ... +120 °C)

Order No.	Description	Suitable for
8 930 008	1 m, 8 mm inner dia.	CD, CP
8 930 010	1 m, 10 mm inner dia.	CD, CP
8 930 012	1 m, 12 mm inner dia.	CD, CP



**Viton® tubing** (-35 °C ... +200 °C)

Order No.	Description	Suitable for
8 930 108	1 m, 8 mm inner dia.	CD, CP
8 930 110	1 m, 10 mm inner dia.	CD, CP
8 930 112	1 m, 12 mm inner dia.	CD, CP



**PTFE tubing** (-60 °C ... +180 °C)

Bestell-Nr.	Bezeichnung	Einsetzbar für
8 930 140	PTFE tubing 8 mm ID × 10 mm OD per meter	CD, CP
8 930 142	PTFE tubing 12 mm ID × 14 mm OD per meter	CD, CP



**Tubing insulation** (-50 °C ... +100 °C)

Order No.	Description	Suitable for
8 930 410	1 m, for tubing 8 - 10 mm inner dia.	CR® / Viton® tubing
8 930 412	1 m, for tubing 12 mm inner dia.	CR® / Viton® tubing



## Tube clamps

Order No.	Description	Suitable for
8 970 480	2 Tube clamps, size 1	CR® / Viton® tubing 8 mm inner dia.
8 970 481	2 Tube clamps, size 2	CR® / Viton® tubing 10 - 12 mm inner dia.



## Metal tubing flexible, insulated (-50 °C ... +200 °C)

Order No.	Description	Suitable for
8 930 220	0.5 m Metal tubing, 2 fittings M16×1 female	CD, CP
8 930 221	1.0 m Metal tubing, 2 fittings M16×1 female	CD, CP
8 930 222	1.5 m Metal tubing, 2 fittings M16×1 female	CD, CP
8 930 223	3.0 m Metal tubing, 2 fittings M16×1 female	CD, CP



## Adapters and connectors

Order No.	Description	Suitable for
8 970 446	2 Barbed fittings for tubing 8 mm inner dia.	CD, CP
8 970 447	2 Barbed fittings for tubing 10 mm inner dia	CD, CP
8 970 445	2 Barbed fittings for tubing 12 mm inner dia.	CD, CP
8 970 443	1 Adapter M16×1 male to M16×1 male	CD, CP
8 970 490	2 Collar nuts M16×1 female	CD, CP
8 970 442	2 Elbow fittings 90°, M16×1 female/male	CD, CP
8 890 004	2 Adapters M16×1 female to NPT 1/4" male	CD, CP
8 890 005	2 Adapters M16×1 female to NPT 1/4" female	CD, CP
8 890 006	2 Adapters M16×1 female to NPT 3/8" male	CD, CP
8 890 007	2 Adapters M16×1 female to NPT 3/8" female	CD, CP
8 890 008	2 Adapters M16×1 female to NPT 1/2" male	CD, CP
8 890 009	2 Adapters M16×1 female to NPT 1/2" female	CD, CP
8 890 010	2 Adapters M16×1 male to NPT 1/4" female	CD, CP
8 891 008	1 Adapter M16×1 male to BSP 1/2" female	CD, CP
8 891 009	1 Adapter M16×1 male to BSP 3/4" female	CD, CP
8 890 011	2 Adapters M16×1 female to tube 1/4" male	CD, CP
8 890 012	2 Adapters M16×1 female to tube 3/8" male	CD, CP
8 890 013	2 Adapters M16×1 female to tube 1/2" male	CD, CP
8 890 024	2 Adapters M16×1 female to M16×1 female	CD, CP



## Shut-off valves for loop circuit

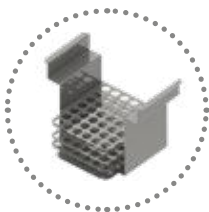
Order No.	Description	Suitable for
8 970 457	Shut-off valve (-30 °C ... +200 °C), M16×1	CD, CP
8 970 456	Shut-off valve (-10 °C ... +100 °C), M16×1	CD, CP

## Refrigerated Circulators Accessories



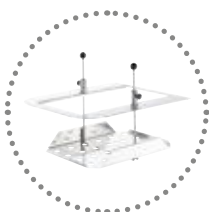
### Twin distributing adapters with barbed fittings

Order No.	Description	Suitable for
8 970 470	Twin distributing adapter with barbed fittings	Tubing 8 mm inner dia.
8 970 471	Twin distributing adapter with barbed fittings	Tubing 12 mm inner dia.
8 970 472	Twin distributing adapter with barbed fittings	Tubing 10 mm inner dia.
8 970 473	Twin distributing adapter M16×1 female to 2 × M16×1 male	CD, CP



### Test tube racks made out of stainless steel, up to +150 °C

Order No.	Description	Suitable for
9 970 320	Test tube rack for 30 tubes 100 × 17 mm dia.	CD-200F, CP-200F, CD-201F, CP-201F CD-300F, CP-300F
9 970 321	Test tube rack for 42 tubes 75 × 12 / 13 mm dia.	CD-200F, CP-200F, CD-201F, CP-201F CD-300F, CP-300F
9 970 322	Test tube rack for 42 tubes 40 × 10 / 11 mm dia.	CD-200F, CP-200F, CD-201F, CP-201F CD-300F, CP-300F
9 970 323	Test tube rack for 10 falcon tubes 50 ml	CD-200F, CP-200F, CD-201F, CP-201F CD-300F, CP-300F



### Immersion-height adjustable platforms

Order No.	Description	Suitable for
9 970 506	Immersion-height adjustable platform	CD-900F, CP-900F



### Accessories Beer Forcing Test

Order No.	Description	Suitable for
9 970 247	Transparent bath cover, plexiglas, temperature range -10 °C ... +80 °C	CD1001F, CP-1001F
9 970 337	Basket for 20 bottles 0.33 l / 0.5 l, stainless steel	CD1001F, CP-1001F



### Software and hardware for instrument control, data recording and visualization, interfaces

Order No.	Description	Suitable for
8 901 102	EasyTEMP Software (free of charge at <a href="http://www.julabo.com">www.julabo.com</a> )	CD, CP
8 901 105	EasyTEMP Professional Software, incl. USB-Dongle	CD, CP
9 900 110	USB interface cable 2 m, type A-B	CD, CP
9 900 112	USB 2.0 Repeater extension cable, length = 5 m	CD, CP
9 900 114	USB 2.0 Repeater extension cable, length = 10 m	CD, CP
8 980 073	RS232 interface cable, length 2,5 m. Interface cable RS232 9-pole/9-pole	CP
8 980 074	RS232 interface cable, length 5 m. Interface cable RS232 9-pole/9-pole.	CP

Calibration and testing certificates		
Order No.	Description	Suitable for
8 980 031	Ethernet/RS232 interface converter for temperature control instruments with RS232 interface.	CP
8 980 032	Ethernet/RS232 Converter Connection of up to 4 JULABO instruments via RS232 interface cable (8980074). Connection to an existing network via RJ45 cable (8980071).	CP
8 980 033	Ethernet/RS232 Converter Connection of up to 8 JULABO instruments via RS232 interface cable (8980074). Connection to an existing network via RJ45 cable (8980071).	CP



### Calibration and testing certificates

Order No.	Description	Suitable for
8 902 901	1-Point Manufacturer's calibration certificate	C, CD, CP
8 902 903	3-Point Manufacturer's calibration certificate	C, CD, CP
8 902 905	5-Point Manufacturer's calibration certificate	C, CD, CP
8 903 025	Manufacturer's testing certificate for JULABO units (with up to 1 kW cooling capacity at +20 °C)	Refrigerated Circulators



### IQ/OQ Documentation for equipment qualification

Order No.	Description	Suitable for
2 310 110	IQ/OQ Documentation, Category 1	CD, CP



### Preventative Maintenance Contract

Order No.	Description	Suitable for
2 350 100	Preventative Maintenance Contract Standard includes the following services: Visual inspection, technical diagnostics, data analysis, BlackBox, testing of tube connections and bath fluid, thorough cleaning of condenser and other components, testing of temperature stability and sensor calibration, testing/measuring of pump and cooling capacity (depending on model) and firmware update (if no hardware adjustment is required)	CD, CP
2 350 110	Preventative Maintenance Contract Premium includes all services listed above as well as spare parts and labor required for installation or replacement	CD, CP

CORIO **Heating Circulators** feature professional technology for routine laboratory tasks. The portfolio permits a wide range of applications and includes immersion circulators, open heating bath circulators, and heating circulators.



# Heating Circulators



## Heating Circulators

### CORIO C Immersion Circulator

for working temperatures from +20 °C to +100 °C

The CORIO C is the entry level model of the CORIO circulator portfolio. The bath attachment clamp is included in delivery and facilitates mounting of the circulator on any bath tank up to 30 liters.

- Precise temperature control
- For internal standard applications
- For bath tanks with a max. filling volume of 30 liters
- Immersion depth: 3 ... 6.5 inch
- Bright, white, easy-to-read display
- Whisper quiet
- Easy operation
- Class I (NFL) according to DIN 12876-1

To adapt the CORIO Immersion Circulator to your individual application we offer a comprehensive range of accessories (racks, bath lids, and more).



#### Option I

The universal bath attachment clamp permits mounting the CORIO Immersion Circulator on rectangular as well as round bath tanks.



#### Option II

Just a few simple steps and the bath attachment clamp is transformed into a mount for laboratory stands.



#### Option III

The Immersion Circulator can be attached directly to the rim of an open JULABO bath.



#### Flexibility.

The jet nozzle permits continuous adjustment of the pump stream in your bath.



### CORIO™ C

Order No.	9 011 000	
Working temperature range °C <sup>1)</sup>	+20 ... +100	
Temperature stability °C	± 0.03	
Heating capacity kW	1 / 2	
Circulation capacity	l/min	psi
Flow rate / Pressure	6	1.5
Dimensions inch	W × L × H 5.2 × 6.3 × 14.4	

#### Applications (CORIO C, CD and CP)

Flexible applications when changing bath tanks. For a large variety of applications in chemistry, pharmaceuticals, medicine, e.g. temperature applications, analytics, or material testing.

<sup>1)</sup> For applications near or below ambient temperature: use a cooling coil or JULABO immersion cooler.



## CORIO CD and CP Immersion Circulator

for working temperatures from +20 °C to +200 °C

In addition to the advantages of the CORIO C Circulator, the CORIO CD and CP Immersion Circulator can be equipped with an optional pump set for temperature control of external applications.

- Precise temperature control
- For internal and external applications (accessories required)
- For bath tanks with a max. filling volume of 50 liters
- Immersion depth: 7.5 ... 16.5 cm
- Bright, white, easy-to-read display
- Very quiet
- Easy handling
- Easy change-over from internal to external circulation and vice versa
- pump capacity, infinitely adjustable (CP)
- USB interface
- R232 interface (CP)
- Early warning system for low liquid level (CP)
- Class III (FL) according to DIN 12876-1

To adapt the CORIO Immersion Circulator to your individual application we offer a comprehensive range of accessories (racks, bath lids, tubing, adapters, and more).



### CORIO™ CD

**Order No.** 9 012 000

Working temperature range °C <sup>1)</sup> +20 ... +150

Temperature stability °C ± 0.03

Heating capacity kW 1 / 2

Pump capacity  
Flow rate / Pressure 16 4.8

Dimensions inch W × L × H  
5.2 × 6.3 × 14.4

### CORIO™ CP



**Order No.** 9 013 000

Working temperature range °C <sup>1)</sup> +20 ... +200

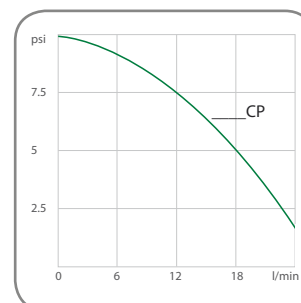
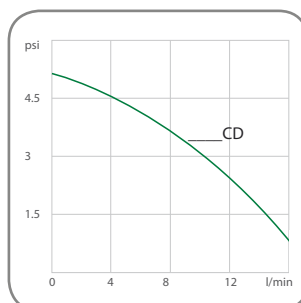
Temperature stability °C ± 0.02

Heating capacity kW 1 / 2

Pump capacity  
Flow rate / Pressure 8 ... 27 1.5...10.2

Dimensions inch W × L × H  
5.2 × 6.3 × 14.3

### Pump capacity Bath fluid: Water



### Optional pump set

With a few simple steps you can install a pump set on the CORIO CD Immersion Circulator. In no time at all, your circulator is ready for temperature control of an external application.



### Universal.

Universal bath attachment clamp. For straight containers. For round containers. For laboratory stands (in combination with stand attachment).

## Heating Circulators

### CORIO C Open Heating Bath Circulators

for internal temperature applications with transparent bath tanks  
for working temperatures from +20 °C to +100 °C

The Open Heating Bath Circulators of the CORIO series feature durable, high-quality transparent bath tanks.

- For internal applications
- Bright, white, easy-to-read display
- Whisper quiet

To adapt the CORIO Open Heating Bath Circulator to your individual application we offer a comprehensive range of accessories (racks, bath lids, and more).



#### Clever.

A clean solution. The cleverly integrated drip off design (B and BT baths).



### CORIO™ C-BT5

**Order No.** 9 011 305

Working temperature range °C<sup>1)</sup> +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 1 / 2

Circulation capacity l/min 6  
Flow rate / Pressure psi 1.5

Bath opening / Bath depth inch W × L / D  
5.9 × 5.9 / 5.9

Filling volume liters 3.5 ... 5

Dimensions inch W × L × H  
9.1 × 15 × 15





### CORIO™ C-BT9

**Order No.** 9 011 309

Working temperature range °C<sup>1)</sup> +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 1 / 2

Circulation capacity l/min psi  
Flow rate / Pressure 6 1.5

Bath opening / Bath depth inch W × L / D  
9.1 × 5.9 / 5.9

Filling volume liters 6 ... 9

Dimensions inch W × L × H  
12.6 × 15 × 15



### CORIO™ C-BT19

**Order No.** 9 011 319

Working temperature range °C<sup>1)</sup> +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 1 / 2

Circulation capacity l/min psi  
Flow rate / Pressure 6 1.5

Bath opening / Bath depth inch W × L / D  
11.8 × 13.8 / 5.9

Filling volume liters 14 ... 19

Dimensions inch W × L × H  
15 × 22.8 × 15



### CORIO™ C-BT27

**Order No.** 9 011 327

Working temperature range °C<sup>1)</sup> +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 1 / 2

Circulation capacity l/min psi  
Flow rate / Pressure 6 1.5

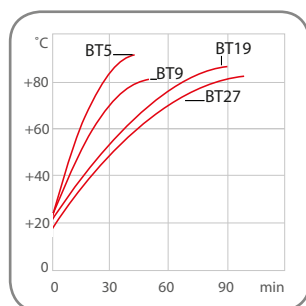
Bath opening / Bath depth inch W × L / D  
11.8 × 13.8 / 7.9

Filling volume liters 20 ... 27

Dimensions inch W × L × H  
15 × 22.8 × 16.9

### Heat-up time\*

Bath fluid: Water



\*with 2 kW heater / 230V

### Applications

Temperature control of samples, preparation of samples for serology and clinical chemistry, analysis, material testing, and more.

<sup>1)</sup>with counter cooling / bath cover (accessory).

## Heating Circulators

### CORIO C Open Heating Bath Circulators

for internal temperature applications with stainless steel bath tanks for working temperatures from +20 °C to +100 °C

The Open Heating Bath Circulators of the CORIO series feature high-quality bath tanks made of stainless steel.

- For internal applications
- Bright, white, easy-to-read display
- Whisper quiet
- High-quality bath tanks made of stainless steel
- Integrated drain screw (except for B5)

To adapt the CORIO Open Heating Bath Circulator to your individual application we offer a comprehensive range of accessories (racks, bath lids, and more).

#### Applications

Temperature control of samples, preparation of samples for serology and clinical chemistry, analysis, material testing, and more.



### CORIO™ C-B5

**Order No.** 9 011 405

Working temperature range °C<sup>1)</sup> +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 1 / 2

Circulation capacity l/min psi  
Flow rate / Pressure 6 1.5

Bath opening / Bath depth inch W × L / D  
5.9 × 5.9 / 5.9

Filling volume liters 3.5 ... 5

Dimensions inch W × L × H  
9.1 × 15 × 16.1





## CORIO™ C-B13

**Order No.** 9 011 413

Working temperature range °C<sup>1)</sup> +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 1 / 2

Circulation capacity  
Flow rate / Pressure l/min psi  
6 1.5

Bath opening /  
Bath depth inch W × L / D  
18.1

Filling volume liters 9 ... 13

Dimensions inch W × L × H  
15 × 15.7 × 16.5



## CORIO™ C-B17

**Order No.** 9 011 417

Working temperature range °C<sup>1)</sup> +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 1 / 2

Circulation capacity  
Flow rate / Pressure l/min psi  
6 1.5

Bath opening /  
Bath depth inch W × L / D  
11.8 × 7.1 / 7.9

Filling volume liters 13 ... 17

Dimensions inch W × L × H  
15 × 15.7 × 18.5



## CORIO™ C-B19

**Order No.** 9 011 419

Working temperature range °C<sup>1)</sup> +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 1 / 2

Circulation capacity  
Flow rate / Pressure l/min psi  
6 1.5

Bath opening /  
Bath depth inch W × L / D  
11.8 × 13.8 / 5.9

Filling volume liters 14 ... 19

Dimensions inch W × L × H  
15 × 22.8 × 16.5



## CORIO™ C-B27

**Order No.** 9 011 427

Working temperature range °C<sup>1)</sup> +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 1 / 2

Circulation capacity  
Flow rate / Pressure l/min psi  
6 1.5

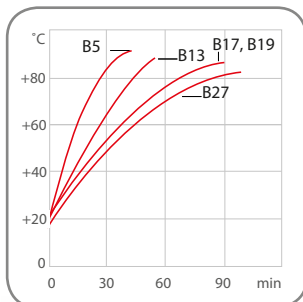
Bath opening /  
Bath depth inch W × L / D  
11.8 × 13.8 / 7.9

Filling volume liters 17 ... 27

Dimensions inch W × L × H  
15 × 22.8 × 18.5

### Heat-up time\*

Bath fluid: Water



\*with 2 kW heater / 230V

<sup>1)</sup>with counter cooling / bath cover (accessory).

## Heating Circulators

### CORIO CD Open Heating Bath Circulators

for internal and external temperature applications with transparent bath tanks  
for working temperatures from +20 °C to +100 °C

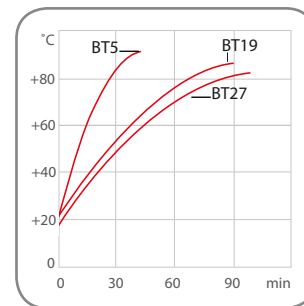
The Open Heating Bath Circulator of the CORIO series feature durable, high-quality transparent bath tanks and pump connections.

- For internal and external applications
- Bright, white, easy-to-read display
- Very quiet
- Easy change-over from internal to external circulation and vice versa

To adapt the CORIO Open Heating Bath Circulator to your individual application we offer a comprehensive range of accessories (racks, bath lids, tubing, adapters and more).

#### Heat-up time\*

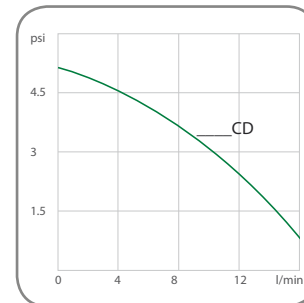
Bath fluid: Water



\*with 2 kW heater / 230V

#### Pump capacity

Bath fluid: Water



#### Applications

Temperature control of samples, preparation of samples for serology and clinical chemistry, analysis, material testing, external temperature control applications in combination with measuring instruments, measuring cells, photometers, refractometers, polarimeters, and more.



### CORIO™ CD-BT5

<b>Order No.</b>	<b>9 012 305</b>	
Working temperature range °C <sup>1)</sup>	+20 ... +100	
Temperature stability °C	± 0.03	
Heating capacity kW	1 / 2	
Pump capacity	l/min	psi
Flow rate / Pressure	16	5.1
Bath opening / Bath depth inch	W × L / D 5.9 × 5.9 / 5.9	
Filling volume liters	3.5 ... 5	
Dimensions inch	W × L × H 9.1 × 15 × 15	



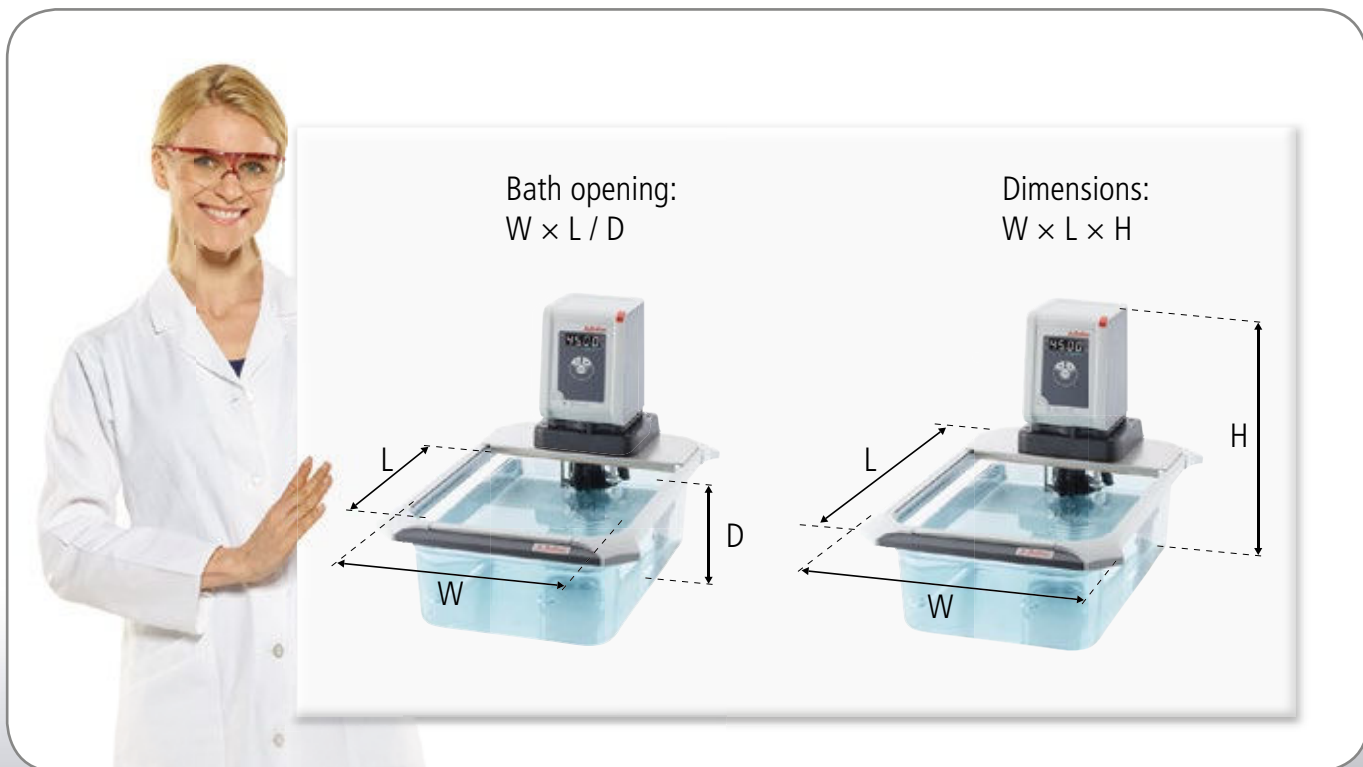
### CORIO™ CD-BT19

<b>Order No.</b>	<b>9 012 319</b>	
Working temperature range °C <sup>1)</sup>	+20 ... +100	
Temperature stability °C	± 0.03	
Heating capacity kW	1 / 2	
Pump capacity	l/min	psi
Flow rate / Pressure	16	5.1
Bath opening / Bath depth inch	W × L / D 11.8 × 13.8 / 5.9	
Filling volume liters	14 ... 19	
Dimensions inch	W × L × H 15 × 22.8 × 15	



### CORIO™ CD-BT27

<b>Order No.</b>	<b>9 012 327</b>	
Working temperature range °C <sup>1)</sup>	+20 ... +100	
Temperature stability °C	± 0.03	
Heating capacity kW	1 / 2	
Pump capacity	l/min	psi
Flow rate / Pressure	16	5.1
Bath opening / Bath depth inch	W × L / D 11.8 × 13.8 / 7.9	
Filling volume liters	20 ... 27	
Dimensions inch	W × L × H 15 × 22.8 × 17	



<sup>1)</sup>with counter cooling / bath cover (accessory).

## Heating Circulators

### CORIO CD Open Heating Bath Circulators

for internal and external temperature applications with stainless steel bath tanks for working temperatures from +20 °C to +150 °C

The Open Heating Bath Circulators of the CORIO series feature high-quality bath tanks made of stainless steel and with pump connections.

- For internal and external applications
- Bright, white, easy-to-read display
- Very quiet
- Easy change-over from internal to external circulation and vice versa
- USB connection
- High-quality bath tanks made of stainless steel
- Integrated drain screw (except for B5)

To adapt the CORIO Open Heating Bath Circulator to your individual application we offer a comprehensive range of accessories (racks, bath lids, tubing, adapters, and more).

#### Applications

Temperature control of samples, preparation of samples for serology and clinical chemistry, analysis, material testing, external temperature control applications in combination with measuring instruments, measuring cells, photometers, refractometers, polarimeters, and more.



### CORIO™ CD-B5

**Order No.** 9 012 405

Working temperature range °C<sup>1)</sup> +20 ... +150

Temperature stability °C ± 0.03

Heating capacity kW 1 / 2

Pump capacity  
Flow rate / Pressure 16 psi  
16 5.1

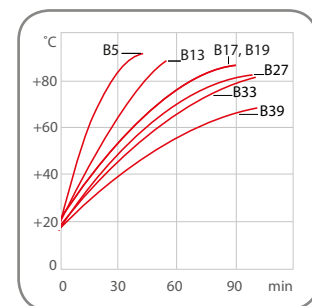
Bath opening /  
Bath depth inch W × L / D  
5.9 × 5.9 / 5.9

Filling volume liters 3.5 ... 5

Dimensions inch W × L × H  
9.1 × 15 × 16.1

#### Heat-up time\*

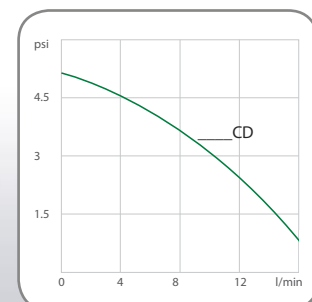
Bath fluid: Water



\*with 2 kW heater / 230V

#### Pump capacity

Bath fluid: Water







## CORIO™ CD-B13

<b>Order No.</b>	<b>9 012 413</b>		
Working temperature range °C <sup>1)</sup>	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Pump capacity	l/min	psi	
Flow rate / Pressure	16	5.1	
Bath opening / Bath depth inch	W × L / D 11.8 × 7.1 / 5.9		
Filling volume liters	9 ... 13		
Dimensions inch	W × L × H 15 × 15.7 × 16.5		



## CORIO™ CD-B17

<b>Order No.</b>	<b>9 012 417</b>		
Working temperature range °C <sup>1)</sup>	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Pump capacity	l/min	psi	
Flow rate / Pressure	16	5.1	
Bath opening / Bath depth inch	W × L / D 11.8 × 7.1 / 7.9		
Filling volume liters	13 ... 17		
Dimensions inch	W × L × H 15 × 15.7 × 18.5		



## CORIO™ CD-B19

<b>Order No.</b>	<b>9 012 419</b>		
Working temperature range °C <sup>1)</sup>	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Pump capacity	l/min	psi	
Flow rate / Pressure	16	5.1	
Bath opening / Bath depth inch	W × L / D 11.8 × 13.8 / 5.9		
Filling volume liters	14 ... 19		
Dimensions inch	W × L × H 15 × 22.8 × 16.5		



## CORIO™ CD-B27

<b>Order No.</b>	<b>9 012 427</b>		
Working temperature range °C <sup>1)</sup>	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Pump capacity	l/min	psi	
Flow rate / Pressure	16	5.1	
Bath opening / Bath depth inch	W × L / D 11.8 × 13.8 / 7.9		
Filling volume liters	17 ... 27		
Dimensions inch	W × L × H 15 × 22.8 × 18.5		



## CORIO™ CD-B33

<b>Order No.</b>	<b>9 012 433</b>		
Working temperature range °C <sup>1)</sup>	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Pump capacity	l/min	psi	
Flow rate / Pressure	16	5.1	
Bath opening / Bath depth inch	W × L / D 26 × 12.6 / 5.9		
Filling volume liters	26 ... 39		
Dimensions inch	W × L × H 35.8 × 14.2 × 17		



## CORIO™ CD-B39

<b>Order No.</b>	<b>9 012 439</b>		
Working temperature range °C <sup>1)</sup>	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	1 / 2		
Pump capacity	l/min	psi	
Flow rate / Pressure	16	5.1	
Bath opening / Bath depth inch	W × L / D 13 × 11.8 / 11.8		
Filling volume liters	35 ... 41		
Dimensions inch	W × L × H 21.3 × 13.4 × 22.4		

## Heating Circulators

### CORIO CD and CP Heating Circulators

for internal and external temperature applications with stainless steel baths for working temperatures from +20 °C to +200 °C

CORIO Heating Circulators feature professional technology for demanding applications. These units facilitate internal temperature control in the bath tank or control of externally connected applications.

- For internal and external applications
- Bright, white, easy-to-read display
- Very quiet
- Easy change-over from internal to external circulation and vice versa
- Strong pump capacity, infinitely adjustable (CP)
- USB connection
- R232 interface (CP)
- High-quality bath tanks made of stainless steel with bath lid and drain tap
- Integrated pump connection M16×1
- Early warning system for low liquid level (CP)
- Integrated cooling coil for counter-cooling

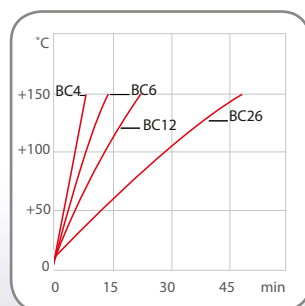
To adapt the CORIO Heating Circulator to your individual application we offer a comprehensive range of accessories (racks, bath lids, tubing, adapters, and more).

#### Applications

External temperature applications in combination with jacketed reactors, distillation apparatus, mini-plant applications, photometers, refractometers, internal temperature applications of samples and small objects.

#### Heat-up time

Bath fluid: Thermal



\*with 2 kW heater / 230V

<sup>1)</sup> For applications near or below ambient temperature: use a cooling coil or JULABO immersion cooler.



### CORIO™ CD-BC4

Order No. 9 012 504

Working temperature range °C <sup>1)</sup> +20 ... +150

Temperature stability °C ± 0.03

Heating capacity kW 1 / 2

Pump capacity l/min psi  
Flow rate / Pressure 16 5.1

Bath opening / Bath depth inch W × L / D  
5.1 × 5.9 / 5.9

Filling volume liters 3 ... 4.5

Dimensions inch W × L × H  
9.4 × 16.1 × 16.5



### CORIO™ CP-BC4

NEW

Order No. 9 013 504

Working temperature range °C <sup>1)</sup> +20 ... +200

Temperature stability °C ± 0.02

Heating capacity kW 1 / 2

Pump capacity l/min psi  
Flow rate / Pressure 8 ... 27 1.5...10.2

Bath opening / Bath depth inch W × L / D  
5.1 × 5.9 / 5.9

Filling volume liters 3 ... 4.5

Dimensions inch W × L × H  
9.1 × 16.1 × 16.5



## CORIO™ CD-BC6

<b>Order No.</b>	<b>9 012 506</b>	
Working temperature range °C <sup>1)</sup>	+20 ... +150	
Temperature stability °C	± 0.03	
Heating capacity kW	1 / 2	
Pump capacity	l/min	psi
Flow rate / Pressure	16	5.1
Bath opening / Bath depth inch	W × L / D 5.1 × 5.9 / 7.9	
Filling volume liters	4.5 ... 6	
Dimensions inch	W × L × H 9.4 × 17.3 × 18.5	



## CORIO™ CD-BC12

<b>Order No.</b>	<b>9 012 512</b>	
Working temperature range °C <sup>1)</sup>	+20 ... +150	
Temperature stability °C	± 0.03	
Heating capacity kW	1 / 2	
Pump capacity	l/min	psi
Flow rate / Pressure	16	5.1
Bath opening / Bath depth inch	W × L / D 8.7 × 5.9 / 7.9	
Filling volume liters	8.5 ... 12	
Dimensions inch	W × L × H 13 × 19.3 × 18.5	



## CORIO™ CD-BC26

<b>Order No.</b>	<b>9 012 526</b>	
Working temperature range °C <sup>1)</sup>	+20 ... +150	
Temperature stability °C	± 0.03	
Heating capacity kW	1 / 2	
Pump capacity	l/min	psi
Flow rate / Pressure	15	5.1
Bath opening / Bath depth inch	W × L / D 10.2 × 13.8 / 7.9	
Filling volume liters	19 ... 26	
Dimensions inch	W × L × H 15.4 × 24.4 × 18.9	



## CORIO™ CP-BC6



<b>Order No.</b>	<b>9 013 506</b>	
Working temperature range °C <sup>1)</sup>	+20 ... +200	
Temperature stability °C	± 0.02	
Heating capacity kW	1 / 2	
Pump capacity	l/min	psi
Flow rate / Pressure	8 ... 27	1.5...10.2
Bath opening / Bath depth inch	W × L / D 5.1 × 5.9 / 7.9	
Filling volume liters	4.5 ... 6	
Dimensions inch	W × L × H 9.4 × 17.3 × 18.5	



## CORIO™ CP-BC12



<b>Order No.</b>	<b>9 013 512</b>	
Working temperature range °C <sup>1)</sup>	+20 ... +200	
Temperature stability °C	± 0.02	
Heating capacity kW	1 / 2	
Pump capacity	l/min	psi
Flow rate / Pressure	8 ... 27	1.5...10.2
Bath opening / Bath depth inch	W × L / D 8.7 × 5.9 / 7.9	
Filling volume liters	8.5 ... 12	
Dimensions inch	W × L × H 13 × 19.3 × 18.5	



## CORIO™ CP-BC26



<b>Order No.</b>	<b>9 013 526</b>	
Working temperature range °C <sup>1)</sup>	+20 ... +200	
Temperature stability °C	± 0.02	
Heating capacity kW	1 / 2	
Pump capacity	l/min	psi
Flow rate / Pressure	8 ... 27	1.5...10.2
Bath opening / Bath depth inch	W × L / D 10.2 × 13.8 / 7.9	
Filling volume liters	19 ... 26	
Dimensions inch	W × L × H 15.4 × 24.4 × 18.9	

## Heating Circulators Accessories

### JULABO Thermal Bath Fluids

JULABO Thermal bath fluids have been carefully chosen following long term testing. They are highly suitable for all of your temperature control applications guaranteeing safe and reliable operation.

Choosing the proper bath fluid is critical for high performance temperature control. The viscosity and heat transfer characteristics of the Thermal fluids are specifically selected for use with JULABO CORIO temperature control instruments.

#### Advantages

- Wide temperature ranges
- Low viscosity
- High stability
- Good heat conductivity
- Minimum odor
- Long fluid life



#### Makes routine laboratory work easier.

JULABO Thermal bath fluids are delivered in containers with a handy drain tap.



### Thermal EG

Order No. 5 liters 8 891 407

Order No. 10 liters 8 891 406

Working temperature range °C -30 ... +80

Flash point °C not applicable

Fire point °C not applicable

Viscosity, (kinematic at +20 °C) mm<sup>2</sup>/s 4.25

Density ( at +20 °C ) g/cm<sup>3</sup> 1.08

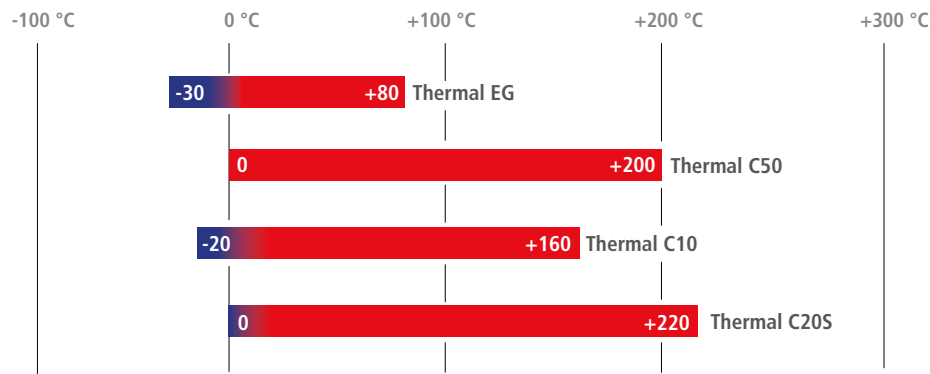
Pour point °C -70

Boiling point °C +108

Ignition temperature °C +410

Color light yellow

#### Working temperature ranges





## Thermal C50

Order No. 5 liters	8 891 420
Order No. 10 liters	8 891 421
Working temperature range °C	+20 ... +200
Flash point °C	+285
Fire point °C	+476
Viscosity, (kinematic at +20 °C) mm <sup>2</sup> /s	50
Density ( at +20 °C ) g/cm <sup>3</sup>	0.96
Pour point °C	-55
Boiling point °C	285
Ignition temperature °C	476
Color	clear



## Thermal C10

Order No. 5 liters	8 891 405
Order No. 10 liters	8 891 404
Working temperature range °C	-20 ... +160
Flash point °C	>+163
Fire point °C	+325
Viscosity, (kinematic at +20 °C) mm <sup>2</sup> /s	10
Density ( at +20 °C ) g/cm <sup>3</sup>	0.93
Pour point °C	<-60
Boiling point °C	+205
Ignition temperature °C	+370
Color	clear



## Thermal C20S

Order No. 5 liters	8 891 409
Order No. 10 liters	8 891 408
Working temperature range °C	0 ... +220
Flash point °C	+232
Fire point °C	+476
Viscosity, (kinematic at +20 °C) mm <sup>2</sup> /s	20
Density ( at +20 °C ) g/cm <sup>3</sup>	0.97
Pour point °C	-60
Boiling point °C	+250
Ignition temperature °C	+476
Color	light brown

### JULABO Thermal bath fluids based on silicone ...

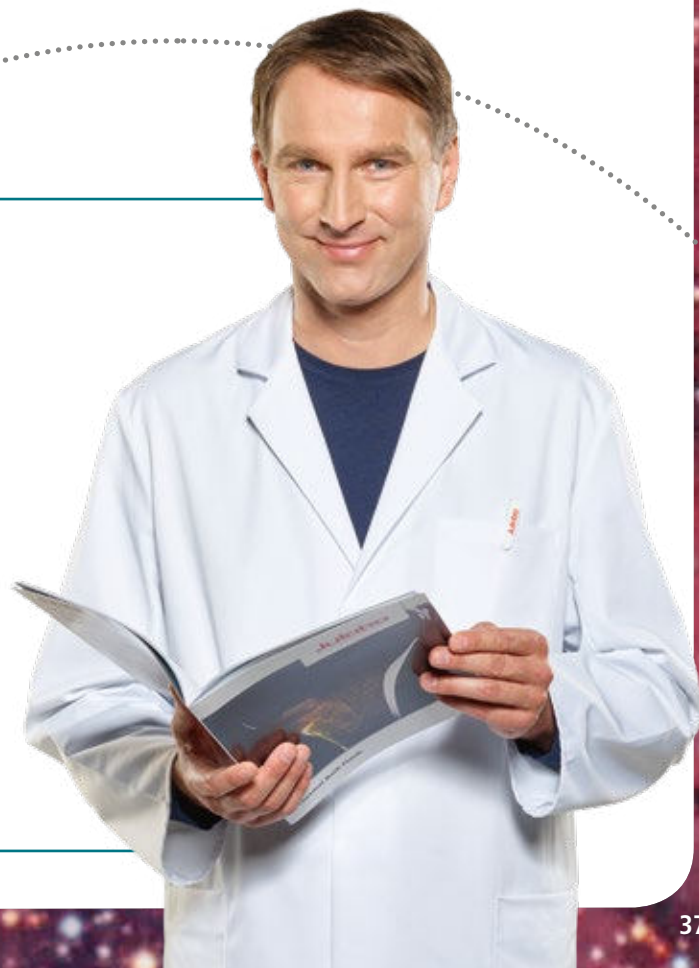
... are chemically inert substances which do not affect metals like iron, copper, zinc, aluminum, chrome or nickel. Compared to other fluids, JULABO Thermal fluids have an extraordinarily low electrical conductivity. When properly stored, the fluids will last for 12 months and longer as they are not susceptible to climatic influences.

### JULABO Thermal bath fluids based on water-glycol ...

... (monoethyleneglycol with anti-corrosion additives) have excellent thermal characteristics and a low viscosity. In addition, they provide anti-freeze protection, i.e. they can be applied at temperatures below the freezing point of water.

### More information on JULABO Thermal bath fluids ...

... in our brochure 'Thermal Bath Fluids' at [www.julabo.com](http://www.julabo.com).



## Heating Circulators Accessories



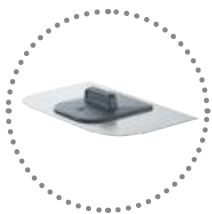
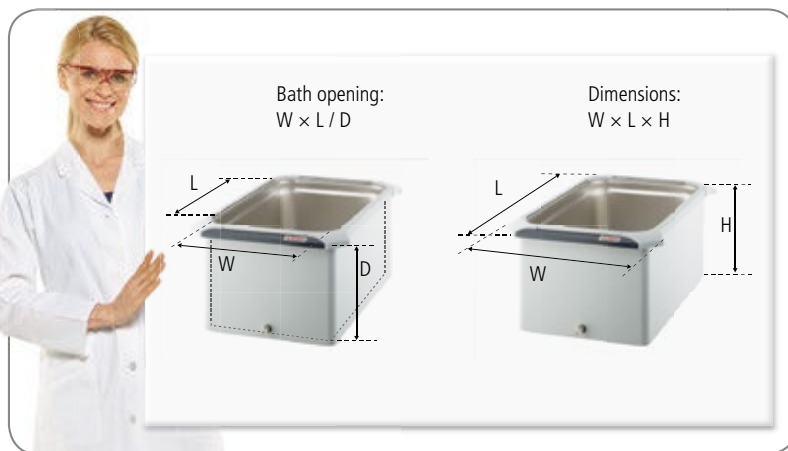
### Transparent bath tanks up to +100 °C

Order No.	Description	Inner dimensions inch	Outer dimensions inch	Suitable for
9 901 305	Bath tank BT5	5.9 × 11.8 / 5.9	9.1 × 15 / 6.3	C, CD
9 901 309	Bath tank BT9	9.4 × 11.8 / 5.9	12.6 × 15 / 6.3	C, CD
9 901 319	Bath tank BT19	11.8 × 19.6 / 5.9	15 × 22.8 / 6.3	C, CD
9 901 327	Bath tank BT27	11.8 × 19.6 / 7.9	15 × 22.8 / 8.3	C, CD



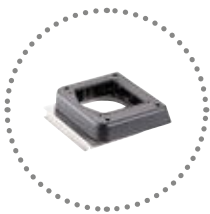
### Stainless steel bath tanks up to +150 °C, insulated

Order No.	Description	Inner dimensions inch	Outer dimensions inch	Suitable for
9 903 405	Bath tank B5	5.9 × 11.8 / 5.9	9.1 × 15 / 7.9	C, CD
9 903 413	Bath tank B13	11.8 × 12.6 / 5.9	15 × 15.7 / 7.9	C, CD
9 903 417	Bath tank B17	11.8 × 19.6 / 5.9	15 × 15.7 / 9.9	C, CD
9 903 419	Bath tank B19	11.8 × 19.6 / 5.9	15 × 15.7 / 7.9	C, CD
9 903 427	Bath tank B27	11.8 × 19.6 / 7.9	15 × 22.8 / 9.9	C, CD
9 903 433	Bath tank B33	32.6 × 11.8 / 5.9	35.8 × 14.2 / 7.9	C, CD
9 903 439	Bath tank B39	11.8 × 19.6 / 11.8	13.4 × 21.3 / 13.8	C, CD



### Bath covers

Order No.	Description	Suitable for
9 970 296	Flat bath cover	B5, BT5
9 970 290	Flat bath cover	B13, B17
9 970 291	Flat bath cover	B19, B27, BT19, BT27
9 970 292	Flat bath cover	B33
9 970 293	Flat bath cover	B39
9 970 253	Lift-up gable bath cover made of stainless steel	B13, B17
9 970 254	Lift-up gable bath cover made of stainless steel	B19, B27, BT19, BT27
9 970 257	Lift-up gable bath cover made of stainless steel	B33



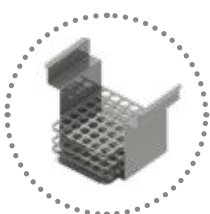
### Assembly frames

Order No.	Description	Suitable for
9 970 229	Stainless steel bridge including assembly frame	C-BT5, C-B5
9 970 228	Stainless steel bridge including assembly frame	C-BT19/27, C-B13/17/19/27
9 970 201	Extendable bridge, extendable from 330 mm to 680 mm	C, CD, CP



### Hollow balls to reduce heat loss, evaporation, oxygen input, odors, action of light

Order No.	Description	Suitable for
8 970 010	Hollow balls, Polypropylene®, 20 mm Ø, 1000 pcs (up to +100 °C, for water only)	C, CD, CP



### Test tube racks made out of stainless steel, up to +150 °C

Order No.	Description	Suitable for
9 970 320	Test tube rack for 30 tubes 100 × 17 mm dia.	B5, BT5, BC4, BC6
9 970 321	Test tube rack for 42 tubes 75 × 12/13 mm dia.	B5, BT5, BC4, BC6
9 970 322	Test tube rack for 42 tubes 40 × 10/11 mm dia.	B5, BT5, BC4, BC6
9 970 323	Test tube rack for 10 Falcon tubes 50 ml	B5, BT5, BC4, BC6



### Test tube racks made out of high grade plastic, up to +100 °C

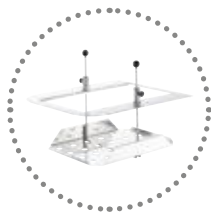
Order No.	Description	Suitable for
9 970 300	Test tube rack for 60 tubes 100 × 16/17 mm dia.	B13, B17, B19, B27, B33, BT19, BT27
9 970 301	Test tube rack for 90 tubes 75 × 12/13 mm dia.	B13, B17, B19, B27, B33, BT19, BT27
9 970 303	Test tube rack for 21 tubes 30 mm dia.	B13, B17, B19, B27, B33, BT19, BT27



Which types of test tube racks are available for your bath and how many can be inserted?

Order No.	BT5	BT9	BT19	BT27	B5	B13	B17	B19	B27	B33	B39
9 970 320	1	-	-	-	1	-	-	-	-	-	-
9 970 321	1	-	-	-	1	-	-	-	-	-	-
9 970 322	1	-	-	-	1	-	-	-	-	-	-
9 970 323	1	-	-	-	1	-	-	-	-	-	-
9 970 300	-	-	3	3	-	1	1	3	3	6	-
9 970 301	-	-	3	3	-	1	1	3	3	6	-
9 970 303	-	-	3	3	-	1	1	3	3	6	-

## Heating Circulators Accessories



### Immersion-height adjustable platforms

Order No.	Description	Suitable for
9 970 506	Immersion-height adjustable platform	CD-BC26, CP-BC26
9 970 503	Immersion-height adjustable platform	B13, B17
9 970 502	Immersion-height adjustable platform	B19, B27, BT19, BT27



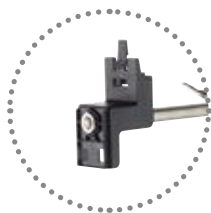
### Universal bath attachment clamp

Order No.	Description	Suitable for
9 970 420	Bath attachment clamp for wall thickness up to 30 mm	C, CD, CP



### Pump set for external temperature applications

Order No.	Description	Suitable for
9 970 140	Pump set (Pump connectors M16×1)	CD
9 970 141	Pump set (Pump connectors M16×1)	CP



### Stand attachment for laboratory stands

Order No.	Description	Suitable for
9 970 022	Stand attachment with rod 200x12 mm dia.	C, CD, CP



### Heat exchangers/Cooling installations

Order No.	Description	Suitable for
9 970 240	Bath cover with built-in heat exchanger	BC4, BC6
9 970 242	Bath cover with built-in heat exchanger	BC12
9 970 100	Assembly cooling coil for counter-cooling with tap water for installation into the existing assembly frame	CD-BT5/19/27, CD-B5/13/17/19/27/33/39
9 970 101	Installation cooling coil for counter-cooling with tap water for mounting on circulator head and for use with the universal bath attachment clamp (without assembly frame)	C, C-BT5/9/19/27, C-B5/13/17/19/27, CD, CP





### CR® tubing (-30 °C ... +120 °C)

Order No.	Description	Suitable for
8 930 008	1 m, 8 mm inner dia.	CD, CP
8 930 010	1 m, 10 mm inner dia.	CD, CP
8 930 012	1 m, 12 mm inner dia.	CD, CP



### Viton® tubing (-35 °C ... +200 °C)

Order No.	Description	Suitable for
8 930 108	1 m, 8 mm inner dia.	CD, CP
8 930 110	1 m, 10 mm inner dia.	CD, CP
8 930 112	1 m, 12 mm inner dia.	CD, CP



### PTFE tubing (-60 °C ... +180 °C)

Bestell-Nr.	Bezeichnung	Einsetzbar für
8 930 140	PTFE tubing 8 mm ID × 10 mm OD per meter	CD, CP
8 930 142	PTFE tubing 12 mm ID × 14 mm OD per meter	CD, CP



### Tubing insulation (-50 °C ... +100 °C)

Order No.	Description	Suitable for
8 930 410	1 m, for tubing 8 - 10 mm inner dia.	CR®/Viton® Tubing
8 930 412	1 m, for tubing 12 mm inner dia.	CR®/Viton® Tubing



### Tube clamps

Order No.	Description	Suitable for
8 970 480	2 Tube clamps, size 1	CR®/Viton® Tubing 8 mm inner dia.
8 970 481	2 Tube clamps, size 2	CR®/Viton® Tubing 10 - 12 mm inner dia.



### Metal tubing flexible, insulated (-50 °C ... +200 °C)

Order No.	Description	Suitable for
8 930 220	0.5 m Metal tubing, 2 fittings M16×1 female	CD, CP
8 930 221	1.0 m Metal tubing, 2 fittings M16×1 female	CD, CP
8 930 222	1.5 m Metall tubing, with connector M16×1	CD, CP
8 930 223	3.0 m Metal tubing with connector M16×1	CD, CP

## Heating Circulators Accessories



### Adapters and connectors

Order No.	Description	Suitable for
8 970 446	2 Barbed fittings for tubing 8 mm inner dia.	CD, CP
8 970 447	2 Barbed fittings for tubing 10 mm inner dia.	CD, CP
8 970 445	2 Barbed fittings for tubing 12 mm inner dia.	CD, CP
8 970 443	1 Adapter M16×1 male to M16×1 male	CD, CP
8 970 490	2 Collar nuts M16×1 female	CD, CP
8 970 442	2 Elbow fittings 90°, M16×1 female/male	CD, CP
8 890 004	2 Adapters M16×1 female to NPT 1/4" male	CD, CP
8 890 005	2 Adapters M16×1 female to NPT 1/4" female	CD, CP
8 890 006	2 Adapters M16×1 female to NPT 3/8" male	CD, CP
8 890 007	2 Adapters M16×1 female to NPT 3/8" female	CD, CP
8 890 008	2 Adapters M16×1 female to NPT 1/2" male	CD, CP
8 890 009	2 Adapters M16×1 female to NPT 1/2" female	CD, CP
8 890 010	2 Adapters M16×1 male to NPT 1/4" female	CD, CP
8 891 008	1 Adapter M16×1 male to BSP 1/2" female	CD, CP
8 891 009	1 Adapter M16×1 male to BSP 3/4" female	CD, CP
8 890 011	2 Adapters M16×1 female to tube 1/4" male	CD, CP
8 890 012	2 Adapters M16×1 female to tube 3/8" male	CD, CP
8 890 013	2 Adapters M16×1 female to tube 1/2" male	CD, CP
8 890 024	2 Adapters M16×1 female to M16×1 female	CD, CP



### Shut-off valves for loop circuit

Order No.	Description	Suitable for
8 970 457	Shut-off valve (-30 °C ... +200 °C), M16×1	CD, CP
8 970 456	Shut-off valve (-10 °C ... +100 °C), M16×1	CD, CP



### Twin distributing adapters with barbed fittings

Order No.	Description	Suitable for
8 970 470	Twin distributing adapter with barbed fittings	Tubing 8 mm inner dia.
8 970 471	Twin distributing adapter with barbed fittings	Tubing 12 mm inner dia.
8 970 472	Twin distributing adapter with barbed fittings	Tubing 10 mm inner dia.
8 970 473	Twin distributing adapter M16×1 female to 2 × M16×1 male	CD, CP



### Software and hardware for instrument control, data recording and visualization, interfaces

Order No.	Description	Suitable for
8 901 102	EasyTEMP Software (free of charge at <a href="http://www.julabo.com">www.julabo.com</a> )	CD, CP
8 901 105	EasyTEMP Professional Software, incl. USB-Dongle	CD, CP
9 900 110	USB interface cable 2 m, type A-B	CD, CP
9 900 112	USB 2.0 Repeater extension cable, length = 5 m	CD, CP
9 900 114	USB 2.0 Repeater extension cable, length = 10 m	CD, CP
8 980 073	RS232 interface cable, length 2,5 m. Interface cable RS232 9-pole/9-pole	CP
8 980 074	RS232 interface cable, length 5 m. Interface cable RS232 9-pole/9-pole.	CP



### Calibration and testing certificates

Order No.	Description	Suitable for
8 902 901	1-Point Manufacturer's calibration certificate	C, CD, CP
8 902 903	3-Point Manufacturer's calibration certificate	C, CD, CP
8 902 905	5-Point Manufacturer's calibration certificate	C, CD, CP
8 903 015	Manufacturer's testing certificate for JULABO units w/o cooling units	C, CD, CP



### IQ/OQ Documentation for equipment qualification

Order No.	Description	Suitable for
2 310 110	IQ/OQ Documentation, Category 1	C, CD, CP



### Preventative Maintenance Contract

Order No.	Description	Suitable for
2 350 100	Preventative Maintenance Contract Standard includes the following services: Visual inspection, technical diagnostics, data analysis, BlackBox, testing of tube connections and bath fluid, thorough cleaning of condenser and other components, testing of temperature stability and sensor calibration, testing/measuring of pump and cooling capacity (depending on model) and firmware update (if no hardware adjustment is required)	C, CD, CP
2 350 110	Preventative Maintenance Contract Premium includes all services listed above as well as spare parts and labor required for installation or replacement	C, CD, CP

# The **Julabo** advantages at a glance.

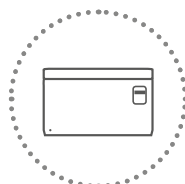
## JULABO temperature control solutions – high-precision and speed

JULABO products include high-quality temperature control solutions to cover the temperature range -95 °C to +400 °C.



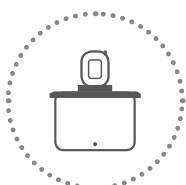
### Refrigerated Circulators

The JULABO Refrigerated Circulators are suitable for internal and external applications and can be used within the temperature range -95 °C to +200 °C.



### Water Baths and Shaking Water Baths

JULABO Water Baths and Shaking Water Baths can be used for a variety of applications within the temperature range +18 °C to +99.9 °C.



### Heating Circulators

Heating Circulators are available in various designs including Heating Immersion Circulators, Open Heating Bath Circulators, or Heating Circulators and cover the temperature range +20 °C to +300 °C.



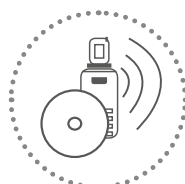
### Additional Products

In addition, the JULABO product portfolio offers instruments for special requirements such as Calibration Baths, Visco Baths, Beer Forcing Test Baths, Immersion / Flow-Through Coolers, Temperature Controllers and Refrigerators for Chemicals.



### Highly Dynamic Temperature Control Systems

The Highly Dynamic Temperature Control Systems from JULABO can be used for demanding temperature applications ranging from -92 °C to +400 °C. The PRESTO series offers unique high-performance specifications to meet these requirements.



### Wireless Communication & Software Solutions

JULABO facilitates the automation of applications. The temperature control instruments can be comfortably controlled and monitored via PC.



### Recirculating Coolers

JULABO Recirculating Coolers are highly efficient and therefore offer an environmentally friendly and economic alternative to tap water cooling in the temperature range -25 °C to +130 °C.



### Accessories

The extensive range of instrument accessories ensures JULABO products are adaptable for research and industry use.

### Comprehensive service and on-site support

JULABO takes pride in offering customers expert advice for pairing the proper JULABO temperature control solution to their specific application. JULABO service and support options include installation and calibration, equipment qualification documentation and application training. These invaluable services ensure customer confidence in the operation and maintenance of any JULABO unit.

### Individual requirements – individual products

JULABO's wide product range offers a solution for almost any application. However, if a specific application needs more than a standard product can offer, the JULABO specialists will work out an individual solution with you.



**JULABO. Quality.**

Highest quality standards to ensure a long product life.



**Green technology.**

Deliberately engineered with environmentally friendly materials and technologies.



**Satisfied customers.**

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



**100 % checked.**

100 % testing. 100 % quality. Every JULABO product is shipped to customers after a successful final inspection.



**Quick start.**

Individual JULABO consultation and comprehensive manuals at your disposal.



**Services 24/7.**

Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies and more at [www.julabo.us](http://www.julabo.us).

## Technical Specifications

Model	Order No.	Working temperature range °C	Display	Display resolution	Temperature control	Temperature stability °C	Heating capacity kW	Cooling unit	+20
<b>CD-200F</b>	9 012 701	-20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	0.22
<b>CP-200F</b>	9 013 701	-20 ... +200	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	0.2
<b>CD-201F</b>	9 012 702	-20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	0.22
<b>CP-201F</b>	9 013 702	-20 ... +200	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	0.2
<b>CD-300F</b>	9 012 703	-25 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	0.31
<b>CP-300F</b>	9 013 703	-25 ... +200	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	0.3
<b>CD-600F</b>	9 012 704	-35 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	0.6
<b>CP-600F</b>	9 013 704	-35 ... +200	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	0.6
<b>CD-601F</b>	9 012 705	-40 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	0.6
<b>CP-601F</b>	9 013 705	-35 ... +200	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	0.6
<b>CD-900F</b>	9 012 706	-38 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	0.9
<b>CP-900F</b>	9 013 706	-38 ... +200	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	0.9
<b>CD-1000F</b>	9 012 707	-40 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	1
<b>CP-1000F</b>	9 013 707	-50 ... +200	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	1
<b>CD-1001F</b>	9 012 708	-38 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	Air	1
<b>CP-1001F</b>	9 013 708	-38 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	Air	1
<b>C</b>	9 011 000	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CD</b>	9 012 000	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CP</b>	9 013 000	+20 ... +200	LED	0.01 - 0.1	PID1	± 0.02	1/2	-	-
<b>C-BT5</b>	9 011 305	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>C-BT9</b>	9 011 309	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>C-BT19</b>	9 011 319	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>C-BT27</b>	9 011 327	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>C-B5</b>	9 011 405	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>C-B13</b>	9 011 413	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>C-B17</b>	9 011 417	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>C-B19</b>	9 011 419	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>C-B27</b>	9 011 427	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CD-BT5</b>	9 012 305	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CD-BT19</b>	9 012 319	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CD-BT27</b>	9 012 327	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CD-B5</b>	9 012 405	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CD-B13</b>	9 012 413	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CD-B17</b>	9 012 417	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CD-B19</b>	9 012 419	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CD-B27</b>	9 012 427	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CD-B33</b>	9 012 433	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CD-B39</b>	9 012 439	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CD-BC4</b>	9 012 504	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CP-BC4</b>	9 013 504	+20 ... +200	LED	0.01 - 0.1	PID1	± 0.02	1/2	-	-
<b>CD-BC6</b>	9 012 506	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CP-BC6</b>	9 013 506	+20 ... +200	LED	0.01 - 0.1	PID1	± 0.02	1/2	-	-
<b>CD-BC12</b>	9 012 512	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CP-BC12</b>	9 013 512	+20 ... +200	LED	0.01 - 0.1	PID1	± 0.02	1/2	-	-
<b>CD-BC26</b>	9 012 526	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	1/2	-	-
<b>CP-BC26</b>	9 013 526	+20 ... +200	LED	0.01 - 0.1	PID1	± 0.02	1/2	-	-

Unless otherwise indicated, all data relates to the operation at nominal voltage and frequency and +20 °C ambient temperature. Cooling capacity measured according to DIN 12876-2. Information regarding used refrigerants can be found at [www.julabo.com](http://www.julabo.com).

Cooling capacity (kW) at bath temperature in °C (Medium: Ethanol)					Type ☉ Pressure pump ☺ Circulation pump	Pump Pressure psi	Flow rate liters/min	Pump connections male	Filling volume liters	Classification acc. to DIN 12876-1
0	-10	-20	-30	-40						
0.17	0.13	0.06	-	-	☉	4.8	16	M16×1	3 ... 4	III (FL)
0.15	0.1	0.02	-	-	☉	1.5 ... 10.2	8 ... 27	M16×1	3 ... 4	III (FL)
0.16	0.12	0.06	-	-	☉	4.8	16	M16×1	3 ... 4	III (FL)
0.15	0.1	0.02			☉	1.5 ... 10.2	8 ... 27	M16×1	3 ... 4	III (FL)
0.28	0.2	0.11	-	-	☉	4.8	16	M16×1	3 ... 4	III (FL)
0.27	0.19	0.08	-	-	☉	1.5 ... 10.2	8 ... 27	M16×1	3 ... 4	III (FL)
0.53	0.35	0.22	0.1	-	☉	4.8	16	M16×1	5 ... 7.5	III (FL)
0.5	0.33	0.19	0.07	-	☉	1.5 ... 10.2	8 ... 27	M16×1	5 ... 7.5	III (FL)
0.5	0.35	0.2	0.07	0.01	☉	4.8	16	M16×1	8 ... 10	III (FL)
0.5	0.33	0.19	0.07	-	☉	1.5 ... 10.2	8 ... 27	M16×1	8 ... 10	III (FL)
0.8	0.55	0.35	0.15	0.02	☉	4.9	12	M16×1	21 ... 30	III (FL)
0.8	0.52	0.31	0.11	-	☉	1.5 ... 10.2	8 ... 27	M16×1	21 ... 30	III (FL)
0.9	0.73	0.5	0.32	0.15	☉	4.8	16	M16×1	5 ... 7.5	III (FL)
0.9	0.73	0.5	0.3	0.13	☉	1.5 ... 10.2	8 ... 27	M16×1	5 ... 7.5	III (FL)
0.9	0.63	0.35	0.13	-	☉	5.1	16	M16×1	42 ... 56	III (FL)
0.85	0.6	0.32	0.12	-	☉	1.5 ... 10.2	8 ... 27	M16×1	42 ... 56	III (FL)
-	-	-	-	-	☺	1.5	6	-	-	I (NFL)
-	-	-	-	-	☉	4.8	16	-	-	III (FL)
-	-	-	-	-	☉	1.5...10.2	8 ... 27	-	-	III (FL)
-	-	-	-	-	☺	1.5	6	-	3.5 ... 5	I (NFL)
-	-	-	-	-	☺	1.5	6	-	6 ... 9	I (NFL)
-	-	-	-	-	☺	1.5	6	-	14 ... 19	I (NFL)
-	-	-	-	-	☺	1.5	6	-	20 ... 27	I (NFL)
-	-	-	-	-	☺	1.5	6	-	3.5 ... 5	I (NFL)
-	-	-	-	-	☺	1.5	6	-	9 ... 13	I (NFL)
-	-	-	-	-	☺	1.5	6	-	13 ... 17	I (NFL)
-	-	-	-	-	☺	1.5	6	-	14 ... 19	I (NFL)
-	-	-	-	-	☺	1.5	6	-	17 ... 27	I (NFL)
-	-	-	-	-	☉	4.8	16	M16×1	3.5 ... 5	III (FL)
-	-	-	-	-	☉	4.8	16	M16×1	14 ... 19	III (FL)
-	-	-	-	-	☉	4.8	16	M16×1	20 ... 27	III (FL)
-	-	-	-	-	☉	4.8	16	M16×1	3.5 ... 5	III (FL)
-	-	-	-	-	☉	4.8	16	M16×1	9 ... 13	III (FL)
-	-	-	-	-	☉	4.8	16	M16×1	13 ... 17	III (FL)
-	-	-	-	-	☉	4.8	16	M16×1	14 ... 19	III (FL)
-	-	-	-	-	☉	4.8	16	M16×1	17 ... 27	III (FL)
-	-	-	-	-	☉	4.8	16	M16×1	26 ... 39	III (FL)
-	-	-	-	-	☉	4.8	16	M16×1	35 ... 41	III (FL)
-	-	-	-	-	☉	4.8	16	M16×1	3 ... 4.5	III (FL)
					☉	1.5...10.2	8 ... 27	M16×1	3 ... 4.5	III (FL)
-	-	-	-	-	☉	4.8	16	M16×1	4.5 ... 6	III (FL)
					☉	1.5...10.2	8 ... 27	M16×1	4.5 ... 6	III (FL)
-	-	-	-	-	☉	4.8	16	M16×1	8.5 ... 12	III (FL)
					☉	1.5...10.2	8 ... 27	M16×1	8.5 ... 12	III (FL)
-	-	-	-	-	☉	5.1	15	M16×1	19 ... 26	III (FL)
-	-	-	-	-	☉	1.5...10.2	8 ... 27	M16×1	19 ... 26	III (FL)

	Power requirement V/Hz/A	USB interface	RS232 interface	Permissible ambient temperature °C	Usable bath opening W x L/D inch	Dimensions W x L x H inch	Weight net lbs	Model
115/60/12	yes	-	-	5 ... 40	5.1 x 5.9 / 5.9	9.1 x 15.4 x 25.6	57.3	<b>CD-200F</b>
115/60/12	yes	yes	yes	5 ... 40	5.1 x 5.9 / 5.9	9.1 x 15.4 x 25.6	57.3	<b>CP-200F</b>
115/60/12	yes	-	-	5 ... 40	5.1 x 5.9 / 5.9	17.3 x 16.1 x 17.3	55.1	<b>CD-201F</b>
115/60/12	yes	yes	yes	5 ... 40	5.1 x 5.9 / 5.9	17.3 x 16.1 x 17.3	54.5	<b>CP-201F</b>
115/60/12	yes	-	-	5 ... 40	5.1 x 5.9 / 5.9	9.4 x 16.5 x 26	61.7	<b>CD-300F</b>
115/60/12	yes	yes	yes	5 ... 40	5.1 x 5.9 / 5.9	9.4 x 16.5 x 26	61.7	<b>CP-300F</b>
115/60/12	yes	-	-	5 ... 40	8.7 x 5.9 / 5.9	13 x 18.5 x 27.2	36	<b>CD-600F</b>
115/60/12	yes	yes	yes	5 ... 40	8.7 x 5.9 / 5.9	13 x 18.5 x 27.2	78.7	<b>CP-600F</b>
115/60/12	yes	-	-	5 ... 40	8.7 x 5.9 / 7.9	14.2 x 18.1 x 29.1	84.9	<b>CD-601F</b>
115/60/12	yes	yes	yes	5 ... 40	8.7 x 5.9 / 7.9	14.2 x 18.1 x 29.1	84.9	<b>CP-601F</b>
115/60/16	yes	-	-	5 ... 40	10.2 x 13.8 / 7.9	15.4 x 24.4 x 29.5	114.6	<b>CD-900F</b>
115/60/16	yes	yes	yes	5 ... 40	10.2 x 13.8 / 7.9	15.4 x 24.4 x 29.5	114.6	<b>CP-900F</b>
115/60/16	yes	-	-	5 ... 40	7.1 x 5.1 / 5.9	16.5 x 19.3 x 27.6	113.5	<b>CD-1000F</b>
115/60/16	yes	yes	yes	5 ... 40	7.1 x 5.1 / 5.9	16.5 x 19.3 x 27.6	113.5	<b>CP-1000F</b>
200-230/60/16	yes	-	-	5 ... 40	13.8 x 16.1 / 11.8	17.7 x 25.2 x 37.4	163.1	<b>CD-1001F</b>
200-230/60/16	yes	yes	yes	5 ... 40	13.8 x 16.1 / 11.8	17.7 x 25.2 x 37.4	162.5	<b>CP-1001F</b>
115/60/10	-	-	-	5 ... 40	-	5.2 x 6.3 x 14.4	4.2	<b>C</b>
115/60/10	yes	-	-	5 ... 40	-	5.2 x 6.3 x 14.4	5.7	<b>CD</b>
115/60/10	yes	yes	yes	5 ... 40	-	5.2 x 6.3 x 14.3	2.5	<b>CP</b>
115/60/10	-	-	-	5 ... 40	5.9 x 5.9 / 5.9	9.1 x 15 x 15	10.6	<b>C-BT5</b>
115/60/10	-	-	-	5 ... 40	9.1 x 5.9 / 5.9	12.6 x 15 x 15	8.6	<b>C-BT9</b>
115/60/10	-	-	-	5 ... 40	11.8 x 13.8 / 5.9	15 x 22.8 x 15	15.4	<b>C-BT19</b>
115/60/10	-	-	-	5 ... 40	11.8 x 13.8 / 7.9	15 x 22.8 x 16.9	15.9	<b>C-BT27</b>
115/60/10	-	-	-	5 ... 40	5.9 x 5.9 / 5.9	9.1 x 15 x 16.1	16.1	<b>C-B5</b>
115/60/10	-	-	-	5 ... 40	11.8 x 7.1 / 5.9	15 x 15.7 x 16.5	18.1	<b>C-B13</b>
115/60/10	-	-	-	5 ... 40	11.8 x 7.1 / 7.9	15 x 15.7 x 18.5	20.5	<b>C-B17</b>
115/60/10	-	-	-	5 ... 40	11.8 x 13.8 / 5.9	15 x 22.8 x 16.5	23.1	<b>C-B19</b>
115/60/10	-	-	-	5 ... 40	11.8 x 13.8 / 7.9	15 x 22.8 x 18.5	28.7	<b>C-B27</b>
230/50/10	yes	-	-	5 ... 40	5.9 x 5.9 / 5.9	9.1 x 15 x 15	18.1	<b>CD-BT5</b>
230/50/10	yes	-	-	5 ... 40	11.8 x 13.8 / 5.9	15 x 22.8 x 15	17.6	<b>CD-BT19</b>
230/50/10	yes	-	-	5 ... 40	11.8 x 13.8 / 7.9	15 x 22.8 x 16.9	17.9	<b>CD-BT27</b>
230/50/10	yes	-	-	5 ... 40	5.9 x 5.9 / 5.9	9.1 x 15 x 16.1	18.1	<b>CD-B5</b>
230/50/10	yes	-	-	5 ... 40	11.8 x 7.1 / 5.9	15 x 15.7 x 16.5	20.1	<b>CD-B13</b>
230/50/10	yes	-	-	5 ... 40	11.8 x 7.1 / 7.9	15 x 15.7 x 18.5	20.5	<b>CD-B17</b>
230/50/10	yes	-	-	5 ... 40	11.8 x 13.8 / 5.9	15 x 22.8 x 16.5	25.4	<b>CD-B19</b>
230/50/10	yes	-	-	5 ... 40	11.8 x 13.8 / 7.9	15 x 22.8 x 18.5	28.7	<b>CD-B27</b>
230/50/10	yes	-	-	5 ... 40	26 x 12.6 / 5.9	35.8 x 14.2 x 16.9	46.3	<b>CD-B33</b>
230/50/10	yes	-	-	5 ... 40	13 x 11.8 / 11.8	21.3 x 13.4 x 22.4	39.7	<b>CD-B39</b>
115/60/10	yes	-	-	5 ... 40	5.1 x 5.9 / 5.9	9.1 x 16.1 x 16.5	19.4	<b>CD-BC4</b>
115/60/10	yes	yes	yes	5 ... 40	5.1 x 5.9 / 5.9	9.1 x 16.1 x 16.5	18.7	<b>CP-BC4</b>
115/60/10	yes	-	-	5 ... 40	5.1 x 5.9 / 7.9	9.4 x 17.3 x 18.5	22	<b>CD-BC6</b>
115/60/10	yes	yes	yes	5 ... 40	5.1 x 5.9 / 7.9	9.4 x 17.3 x 18.5	22	<b>CP-BC6</b>
115/60/10	yes	-	-	5 ... 40	8.7 x 5.9 / 7.9	13 x 19.3 x 18.5	26.9	<b>CD-BC12</b>
115/60/10	yes	yes	yes	5 ... 40	8.7 x 5.9 / 7.9	13 x 19.3 x 18.5	26.5	<b>CP-BC12</b>
115/60/10	yes	-	-	5 ... 40	10.2 x 13.8 / 7.9	15.4 x 24.4 x 18.9	41.9	<b>CD-BC26</b>
115/60/10	yes	yes	yes	5 ... 40	10.2 x 13.8 / 7.9	15.4 x 24.4 x 18.9	41.9	<b>CP-BC26</b>

Unless otherwise indicated, all data relates to the operation at nominal voltage and frequency and +20 °C ambient temperature. Cooling capacity measured according to DIN 12876-2. Information regarding used refrigerants can be found at [www.julabo.com](http://www.julabo.com).



## Voltage Options

Model	Order No.	Available voltage options / Heating capacity kW						
		230 V 50 Hz	208-230 V 60 Hz	208-230 V 50-60 Hz	100-115 V 50-60 Hz	115 V 60 Hz	100 V 50 - 60 Hz	200 V 50 - 60 Hz
CD-200F	9 012 701	2	1.6 - 2	-	-	1	0.8	-
CD-201F	9 012 702	2	1.6 - 2	-	-	1	0.8	-
CD-300F	9 012 703	2	1.6 - 2	-	-	1	0.8	-
CD-600F	9 012 704	2	1.6 - 2	-	-	1	0.8	-
CD-601F	9 012 705	2	1.6 - 2	-	-	1	0.8	-
CD-900F	9 012 706	2	1.6 - 2	-	-	1	-	1.5
CD-1000F	9 012 707	2	1.6 - 2	-	-	1	-	1.5
CD-1001F	9 012 708	2	1.6 - 2	-	-	-	-	1.5
CP-200F	9 013 701			1.6 - 2		1	0.8	-
CP-201F	9 013 702			1.6 - 2		1	0.8	-
CP-300F	9 013 703	2	1.6 - 2			1	0.8	-
CP-600F	9 013 704			1.6 - 2		1	0.8	1.5
CP-601F	9 013 705			1.6 - 2		1	0.8	1.5
CP-900F	9 013 706			1.6 - 2		1	-	1.5
CP-1000F	9 013 707			1.6 - 2		1	-	1.5
CP-1001F	9 013 708			1.6 - 2		-	-	1.5
C	9 011 000	-	-	1.6 - 2	0.8 - 1	-	-	-
CD	9 012 000	2	1.6 - 2.	-	-	1	0.8	-
CP	9 013 000							
C-BT5	9 011 305	-	-	1.6 - 2	0.8 - 1-0	-	-	-
C-BT9	9 011 309	-	-	1.6 - 2	0.8 - 1	-	-	-
C-BT19	9 011 319	-	-	1.6 - 2	0.8 - 1	-	-	-
C-BT27	9 011 327	-	-	1.6 - 2	0.8 - 1	-	-	-
C-B5	9 011 405	-	-	1.6 - 2	0.8 - 1	-	-	-
C-B13	9 011 413	-	-	1.6 - 2	0.8 - 1	-	-	-
C-B17	9 011 417	-	-	1.6 - 2	0.8 - 1	-	-	-
C-B19	9 011 419	-	-	1.6 - 2	0.8 - 1	-	-	-
C-B27	9 011 427	-	-	1.6 - 2	0.8 - 1	-	-	-
CD-BT5	9 012 305	2	1.6 - 2	-	-	1	0.8	-
CD-BT19	9 012 319	2	1.6 - 2	-	-	1	0.8	-
CD-BT27	9 012 327	2	1.6 - 2	-	-	1	0.8	-
CD-B5	9 012 405	2	1.6 - 2	-	-	1	0.8	-
CD-B13	9 012 413	2	1.6 - 2	-	-	1	0.8	-
CD-B17	9 012 417	2	1.6 - 2	-	-	1	0.8	-
CD-B19	9 012 419	2	1.6 - 2	-	-	1	0.8	-
CD-B27	9 012 427	2	1.6 - 2	-	-	1	0.8	-
CD-B33	9 012 433	2	1.6 - 2	-	-	1	0.8	-
CD-B39	9 012 439	2	1.6 - 2	-	-	1	0.8	-
CD-BC4	9 012 504	2	1.6 - 2	-	-	1	0.8	-
CD-BC6	9 012 506	2	1.6 - 2	-	-	1	0.8	-
CD-BC12	9 012 512	2	1.6 - 2	-	-	1	0.8	-
CD-BC26	9 012 526	2	1.6 - 2	-	-	1	0.8	-
CP-BC4	9 013 304			1.6 - 2	0.8 - 1			1.5
CP-BC6	9 013 306			1.6 - 2	0.8 - 1			1.5
CP-BC12	9 013 312			1.6 - 2	0.8 - 1			1.5
CP-BC26	9 013 326			1.6 - 2	0.8 - 1			1.5

Unless otherwise indicated, all data relates to the operation at nominal voltage and frequency and +20 °C ambient temperature. Cooling capacity measured according to DIN 12876-2. Information regarding used refrigerants can be found at [www.julabo.com](http://www.julabo.com).



## **NORTH AMERICA**

### **JULABO USA Inc.**

884 Marcon Boulevard  
Allentown, PA 18109  
United States of America

Tel. +1 610 231 0250  
Fax +1 610 231 0260  
Tollfree +1 800 458 5226

info@julabo.us  
www.julabo.us

### **GERMANY Headquarters**

JULABO GmbH  
www.julabo.com

### **ITALY**

JULABO Italia Srl.  
www.julabo.com

### **UK**

JULABO UK, Ltd.  
www.julabo.com

### **FRANCE**

JULABO France SAS  
www.julabo.com

### **NETHERLANDS**

JULABO Nederland B.V.  
www.julabo.com

### **JAPAN**

JULABO Japan Co., Ltd.  
www.julabo-japan.co.jp

### **KOREA**

JULABO Korea Co., Ltd.  
www.julabo-korea.co.kr

### **CHINA**

JULABO Technology (Beijing) Co., Ltd.  
www.julabo.com.cn

### **LATIN AMERICA**

JULABO Latin America  
www.julabo-latinamerica.com

### **SINGAPORE**

JULABO Singapore Pte., Ltd.  
www.julabo.com

### **INDIA**

JULABO India  
www.julabo.com

**Plus more than  
100 partner distributors  
worldwide**