

Julabo
THE TEMPERATURE CONTROL COMPANY

CORIO™

Refrigerated and Heating Circulators



ENGLISH

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CORIO – the laboratory circulators

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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.

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exclusive



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).



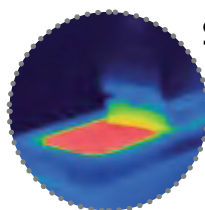
Early warning system for low liquid level.

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, 1000FW, 1001F).



Locked in.

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

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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.



Environmentally friendly.

Units with this symbol work with environmentally friendly, natural refrigerants.



Connection. Easy.

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



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.



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.

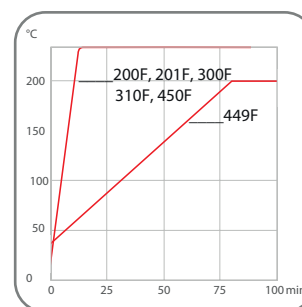


Maintenance. Friendly.

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

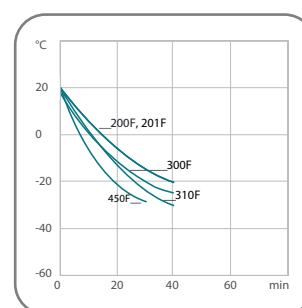
Heat-up time

Bath fluid: Thermal



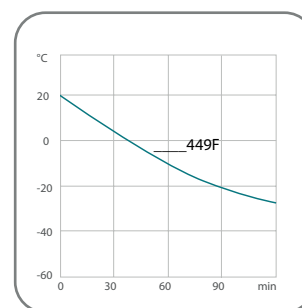
Cool-down time

Bath fluid: Ethanol



Cool-down time

Bath fluid: Ethanol





CORIO™ CD-200F

Order No.	9 012 701	
Working temperature range °C	-20 ... +150	
Temperature stability °C	± 0.03	
Heating capacity kW	2	
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C
	0.22	0.17
	-10 °C	-20 °C
	0.13	0.06
Pump capacity	l/min	bar
Flow rate / Pressure	15	0.35
Bath opening / Bath depth cm	W × L / D 13 × 15 / 15	
Filling volume liters	3 ... 4	
Dimensions cm	W × L × H 23 × 39 × 65	



CORIO™ CD-201F

Order No.	9 012 702	
Working temperature range °C	-20 ... +150	
Temperature stability °C	± 0.03	
Heating capacity kW	2	
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C
	0.22	0.16
	-10 °C	-20 °C
	0.12	0.06
Pump capacity	l/min	bar
Flow rate / Pressure	15	0.35
Bath opening / Bath depth cm	W × L / D 13 × 15 / 15	
Filling volume liters	3 ... 4	
Dimensions cm	W × L × H 44 × 41 × 44	



CORIO™ CD-300F

Order No.	9 012 703	
Working temperature range °C	-25 ... +150	
Temperature stability °C	± 0.03	
Heating capacity kW	2	
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C
	0.31	0.28
	-10 °C	-20 °C
	0.20	0.11
Pump capacity	l/min	bar
Flow rate / Pressure	15	0.35
Bath opening / Bath depth cm	W × L / D 13 × 15 / 15	
Filling volume liters	3 ... 4	
Dimensions cm	W × L × H 24 × 42 × 66	



CORIO™ CD-310F

Order No.	9 012 713.N1*	
Working temperature range °C	-30 ... +150	
Temperature stability °C	± 0.03	
Heating capacity kW	2	
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C
	0.31	0.28
	-10 °C	-20 °C
	0.22	0.13
Pump capacity	l/min	bar
Flow rate / Pressure	15	0.35
Bath opening / Bath depth cm	W × L / D 13 × 15 / 15	
Filling volume liters	3 ... 4	
Dimensions cm	W × L × H 73 × 40 × 65	



CORIO™ CD-450F

Order No.	9 012 714.N1*	
Working temperature range °C	-30 ... +150	
Temperature stability °C	± 0.03	
Heating capacity kW	2	
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C
	0.45	0.38
	-10 °C	-20 °C
	0.28	0.17
Pump capacity	l/min	bar
Flow rate / Pressure	15	0.35
Bath opening / Bath depth cm	W × L / D 13 × 15 / 15	
Filling volume liters	3 ... 4	
Dimensions cm	W × L × H 73 × 40 × 65	



CORIO™ CD-449F

Order No.	9 012 716.N1	
Working temperature range °C	-32 ... +150	
Temperature stability °C	± 0.03	
Heating capacity kW	2	
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C
	0.45	0.36
	-10 °C	-20 °C
	0.28	0.21
Pump capacity	l/min	bar
Flow rate / Pressure	15	0.35
Bath opening / Bath depth cm	W × L / D 28 × 35 / 20	
Filling volume liters	21 ... 30	
Dimensions cm	W × L × H 37 × 59 × 69	

Refrigerated Circulators



CORIO™ CD-600F

Order No.	9 012 704		
Working temperature range °C	-35 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	-10 °C
	0.6	0.46	0.29
	-20 °C	-30 °C	-40 °C
	0.18	0.06	-
Pump capacity	l/min	bar	
Flow rate / Pressure	15	0.35	
Bath opening / Bath depth cm	W × L / D 22 × 15 / 15		
Filling volume liters	5 ... 7.5		
Dimensions cm	W × L × H 33 × 47 × 69		



CORIO™ CD-601F

Order No.	3		
Working temperature range °C	-35 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	-10 °C
	0.6	0.46	0.29
	-20 °C	-30 °C	-40 °C
	0.18	0.06	-
Pump capacity	l/min	bar	
Flow rate / Pressure	15	0.35	
Bath opening / Bath depth cm	W × L / D 22 × 15 / 20		
Filling volume liters	8 ... 10		
Dimensions cm	W × L × H 33 × 47 × 74		

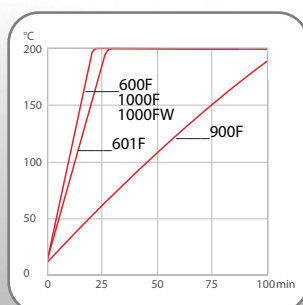


CORIO™ CD-900F

Order No.	9 012 706		
Working temperature range °C	-38 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	-10 °C
	0.9	0.8	0.55
	-20 °C	-30 °C	-40 °C
	0.35	0.15	0.02
Pump capacity	l/min	bar	
Flow rate / Pressure	15	0.35	
Bath opening / Bath depth cm	W × L / D 26 × 35 / 20		
Filling volume liters	21 ... 30		
Dimensions cm	W × L × H 39 × 62 × 75		

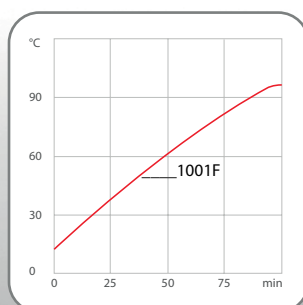
Heat-up time

Bath fluid: Thermal



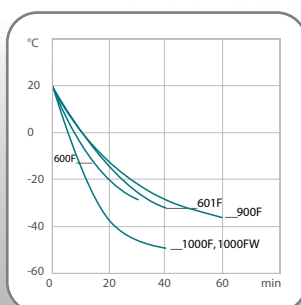
Heat-up time

Bath fluid: Thermal



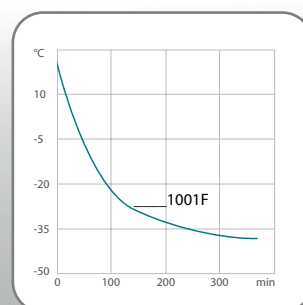
Cool-down time

Bath fluid: Ethanol



Cool-down time

Bath fluid: Ethanol





CORIO™ CD-1000F

Order No. 9 012 707

Working temperature range °C -40 ... +150

Temperature stability °C ± 0.03

Heating capacity kW 2

	+20 °C	0 °C	-10 °C
Cooling capacity kW	1	0.98	0.75
(Bath fluid: Ethanol)	-20 °C	-30 °C	-40 °C
	0.53	0.27	0.13

Pump capacity l/min bar
Flow rate / Pressure 15 0.35

Bath opening / Bath depth cm W × L / D
18 × 13 / 15

Filling volume liters 5 ... 7.5

Dimensions cm W × L × H
42 × 49 × 74



CORIO™ CD-1000FW

Order No. 9 012 727

Working temperature range °C -40 ... +150

Temperature stability °C ± 0.03

Heating capacity kW 2

	+20 °C	0 °C	-10 °C
Cooling capacity kW	1	0.98	0.75
(Bath fluid: Ethanol)	-20 °C	-30 °C	-40 °C
	0.53	0.27	0.13

Pump capacity l/min bar
Flow rate / Pressure 15 0.35

Bath opening / Bath depth cm W × L / D
18 × 13 / 15

Filling volume liters 5 ... 7.5

Dimensions cm W × L × H
42 × 49 × 74



CORIO™ CD-1001F

Order No. 9 012 708

Working temperature range °C -38 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 2

	+20 °C	0 °C	-10 °C
Cooling capacity kW	1	0.95	0.63
(Bath fluid: Ethanol)	-20 °C	-30 °C	-40 °C
	0.35	0.13	-

Pump capacity l/min bar
Flow rate / Pressure 15 0.35

Bath opening / Bath depth cm W × L / D
35 × 41 / 30

Filling volume liters 42 ... 56

Dimensions cm W × L × H
45 × 64 × 95



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-1001F additionally contain a continuous automatic adjustment of the cooling capacity at the operating point to minimize the power consumption and the heat waste.

CORIO CP Refrigerated/Heating Circulators

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

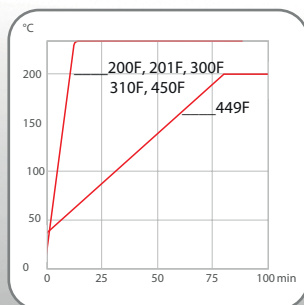
Refrigerated Circulators from the CORIO CP range are suitable for applications with a temperature range from -50°C to +200°C. The enhanced pump performance ensures they are suitable for easy temperature control tasks in combination with external applications.

- 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)

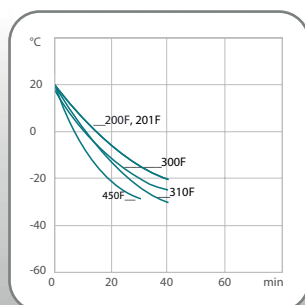
Heat-up time

Bath fluid: Thermal



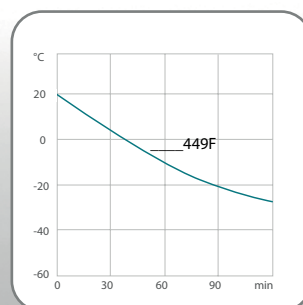
Cool-down time

Bath fluid: Ethanol



Cool-down time

Bath fluid: Ethanol





CORIO™ CP-200F

Order No.	9 013 701		
Working temperature range °C	-20 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	
	0.2	0.15	
	-10 °C	-20 °C	
	0.1	0.02	
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 13 × 15 / 15		
Filling volume liters	3 ... 4		
Dimensions cm	W × L × H 23 × 39 × 65		



CORIO™ CP-201F

Order No.	9 013 702		
Working temperature range °C	-20 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	
	0.2	0.15	
	-10 °C	-20 °C	
	0.1	0.02	
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 13 × 15 / 15		
Filling volume liters	3 ... 4		
Dimensions cm	W × L × H 44 × 41 × 44		



CORIO™ CP-300F

Order No.	9 013 703		
Working temperature range °C	-25 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	
	0.3	0.27	
	-10 °C	-20 °C	
	0.19	0.08	
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 13 × 15 / 15		
Filling volume liters	3 ... 4		
Dimensions cm	W × L × H 24 × 42 × 66		



CORIO™ CP-310F

Order No.	9 013 713.N1*		
Working temperature range °C	-30 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	
	0.3	0.27	
	-10 °C	-20 °C	
	0.21	0.12	
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 13 × 15 / 15		
Filling volume liters	3 ... 4		
Dimensions cm	W × L × H		



CORIO™ CP-450F

Order No.	9 013 714.N1*		
Working temperature range °C	-30 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	
	0.44	0.37	
	-10 °C	-20 °C	
	0.27	0.16	
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 13 × 15 / 15		
Filling volume liters	3 ... 4		
Dimensions cm	W × L × H		



CORIO™ CP-449F

Order No.	9 013 716.N1		
Working temperature range °C	-32 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	
	0.44	0.35	
	-10 °C	-20 °C	
	0.27	0.2	
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 28 × 35 / 20		
Filling volume liters	21 ... 30		
Dimensions cm	W × L × H		

Refrigerated Circulators



CORIO™ CP-600F

Order No.	9 013 704		
Working temperature range °C	-35 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	-10 °C
	0.6	0.44	0.27
	-20 °C	-30 °C	-40 °C
	0.16	0.04	-
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 22 × 15 / 15		
Filling volume liters	5 ... 7.5		
Dimensions cm	W × L × H 33 × 47 × 69		



CORIO™ CP-601F

Order No.	9 013 705		
Working temperature range °C	-35 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	-10 °C
	0.6	0.44	0.27
	-20 °C	-30 °C	-40 °C
	0.16	0.04	-
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 22 × 15 / 20		
Filling volume liters	8 ... 10		
Dimensions cm	W × L × H 33 × 47 × 74		

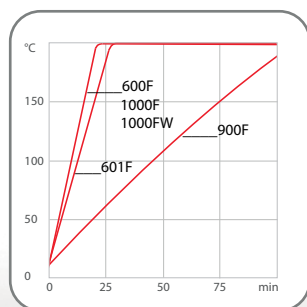


CORIO™ CP-900F

Order No.	9 013 706		
Working temperature range °C	-38 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	-10 °C
	0.9	0.8	0.52
	-20 °C	-30 °C	-40 °C
	0.31	0.11	-
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 26 × 35 / 20		
Filling volume liters	21 ... 30		
Dimensions cm	W × L × H 39 × 62 × 75		

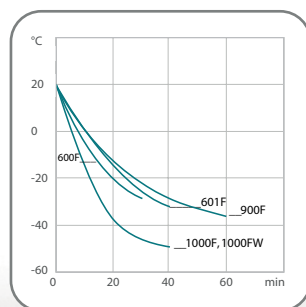
Heat-up time

Bath fluid: Thermal



Cool-down time

Bath fluid: Ethanol





CORIO™ CP-1000F

Order No.	9 013 707		
Working temperature range °C	-50 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	-10 °C
	1	0.96	0.73
	-20 °C	-30 °C	-40 °C
	0.51	0.25	0.11
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 18 × 13 / 15		
Filling volume liters	5 ... 7.5		
Dimensions cm	W × L × H 42 × 49 × 74		



CORIO™ CP-1000FW

Order No.	9 013 727		
Working temperature range °C	-50 ... +200		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	-10 °C
	1	0.96	0.73
	-20 °C	-30 °C	-40 °C
	0.51	0.25	0.11
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 18 × 13 / 15		
Filling volume liters	5 ... 7.5		
Dimensions cm	W × L × H 42 × 49 × 74		

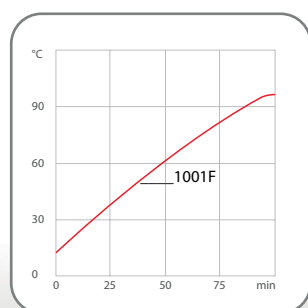


CORIO™ CP-1001F

Order No.	9 013 708		
Working temperature range °C	-38 ... +100		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Cooling capacity kW (Bath fluid: Ethanol)	+20 °C	0 °C	-10 °C
	1	0.9	0.6
	-20 °C	-30 °C	-40 °C
	0.6	0.12	-
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 35 × 41 / 30		
Filling volume liters	42 ... 56		
Dimensions cm	W × L × H 45 × 64 × 95		

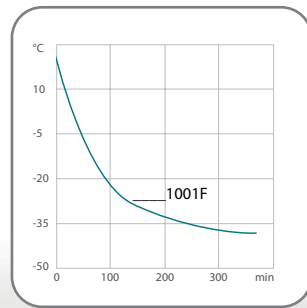
Heat-up time

Bath fluid: Thermal



Cool-down time

Bath fluid: Ethanol



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 G

Order No. 5 liters 8 940 125

Order No. 10 liters 8 940 124

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

Flash point °C -

Fire point °C -

Viscosity, (kinematic at +20 °C) mm²/s 4.13 mPas

Density (at +20 °C) g/cm³ 1.0681 g/cm³

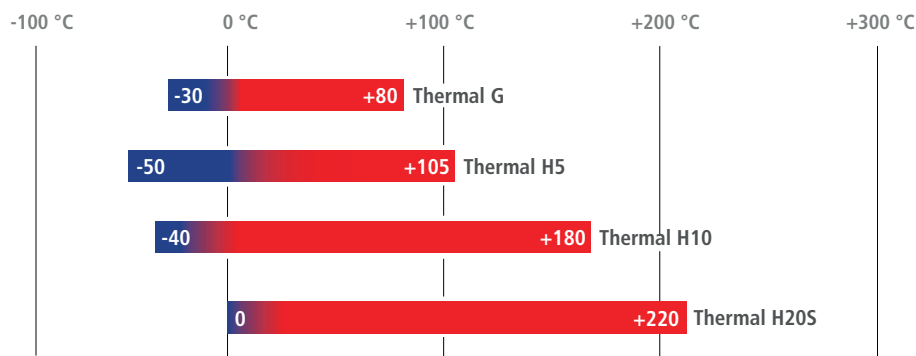
Pour point °C -44

Boiling point °C +109

Ignition temperature °C +410

Color light yellow

Working temperature range





Thermal H5

Order No. 5 liters 8 940 107

Order No. 10 liters 8 940 106

Working temperature range °C -50 ... +105

Flash point °C >+120

Fire point °C +142

Viscosity, (kinematic at +20 °C) mm²/s 5.66

Density (at +20 °C) g/cm³ 0.92

Pour point °C -100

Boiling point °C +288

Ignition temperature °C +350

Color clear



Thermal H10

Order No. 5 liters 8 940 115

Order No. 10 liters 8 940 114

Working temperature range °C -40 ... +180

Flash point °C >+165

Fire point °C +220

Viscosity, (kinematic at +20 °C) mm²/s 10

Density (at +20 °C) g/cm³ 0.93

Pour point °C <-60

Boiling point °C +288

Ignition temperature °C +370

Color clear



Thermal H20S

Order No. 5 liters 8 940 109

Order No. 10 liters 8 940 108

Working temperature range °C 0 ... +220

Flash point °C >+200

Fire point °C +264

Viscosity, (kinematic at +20 °C) mm²/s 20

Density (at +20 °C) g/cm³ 0.95

Pour point °C -70

Boiling point °C +424

Ignition temperature °C +385

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





Water bath protective media to prevent the formation of algae and bacteria and descaling agent

Order No.	Description	Suitable for
8 940 006	Aqua Stabil, 6 bottles 100 ml each	CORIO
8 940 012	Aqua Stabil, 12 bottles 100 ml each	CORIO
9 940 200	Descaling agent 1 Liter	CORIO



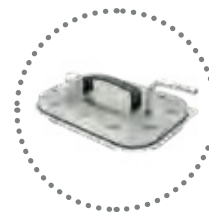
Hollow balls to reduce heat loss, evaporation, oxygen input, odors, action of light

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



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, CD-310F, CP-310F, CD-450F, CP-450F
9 970 242	Bath cover with built-in heat exchanger	CD-600F, CD-601F, CD-1000F, CD-1000FW CP-600F, CP-601F, CP-1000F, CP-1000FW



Lockable bath cover/condensation trap

Order No.	Description	Suitable for
9 970 243	Lockable bath cover	CD-200F, CP-200F, CD-201F, CP-201F CD-300F, CP-300F, CD-310F, CP-310F, CD-450F, CP-450F
9 970 700	Condensation trap with bath lid	CD-600F, CD-601F, CD-1000F, CD-1000FW CP-600F, CP-601F, CP-1000F, CP-1000FW



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.



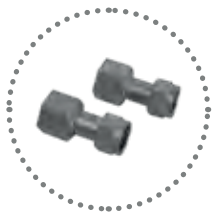
Metal tubing flexible, insulated (-50 °C ... +200 °C)

Order No.	Description	Suitable for
8 930 220	0.5 m Metal tubing, 2 fittings M16×1 female	CD, CP
8 930 221	1 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 m Metal tubing, 2 fittings M16×1 female	CD, CP
8 930 224	2 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
8 970 448	2 Elbow fittings 90°, M16×1 male/female, side length 1 × 54 mm / 1 × 120 mm	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





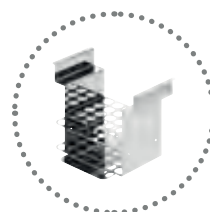
Shut-off valves for loop circuit

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
8 970 850	Shut-off valve (-60 °C ... +200 °C), M16×1	CD, CP



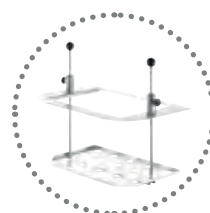
Twin distributing adapters with barbed fittings

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



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, CD-310F, CP-310F, CD-450F, CP-450F
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, CD-310F, CP-310F, CD-450F, CP-450F
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, CD-310F, CP-310F, CD-450F, CP-450F
9 970 323	Test tube rack for 10 falcon tubes 50 ml	CD-200F, CP-200F, CD-201F, CP-201F CD-300F, CP-300F, CD-310F, CP-310F, CD-450F, CP-450F



Immersion-height adjustable platforms

Order No.	Description	Suitable for
9 970 506	Immersion-height adjustable platform	CD-449F, CP-449F, 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



Castor platform

Order No.	Description	Suitable for
8 910 040	Castor platform	CD, CP



Software und Hardware zur Gerätesteuerung, Datenaufzeichnung und Visualisierung, Schnittstellen

Bestell-Nr.	Bezeichnung	Einsetzbar für
8 901 102	EasyTEMP Software (kostenlos unter	CD, CP
8 901 105	EasyTEMP Professional Software, inkl. USB-Dongle	CD, CP
9 900 110	USB-Kabel 2 m, Typ A-B	CD, CP
9 900 112	USB 2.0 Repeater-Verlängerungskabel, Länge = 5 m	CD, CP
9 900 114	USB 2.0 Repeater-Verlängerungskabel, Länge = 10 m	CD, CP
8 980 073	RS232-Schnittstellenkabel, Länge 2,5 m mit 9-pol.-Stecker/9-pol.-Buchse	CP
8 980 074	RS232-Schnittstellenkabel, Länge 5 m mit 9-pol.-Stecker/9-pol.-Buchse	CP
8 980 031	Ethernet / RS232-Schnittstellenkonverter für Temperiergeräte	CP
8 980 032	Ethernet / RS232-Schnittstellenkonverter für bis zu 4 JULABO Geräte	CP
8 980 033	Ethernet / RS232-Schnittstellenkonverter für bis zu 8 JULABO Geräte	CP



Kalibrier- und Herstellerzertifikate

Bestell-Nr.	Bezeichnung	Einsetzbar für
8 902 901	1-Punkt-Hersteller-Kalibrierzertifikat	CORIO
8 902 903	3-Punkt-Hersteller-Kalibrierzertifikat	CORIO
8 902 905	5-Punkt-Hersteller-Kalibrierzertifikat	CORIO
8 903 025	Hersteller-Prüfzertifikat für JULABO Geräte, Kategorie 2	CORIO



IQ/OQ-Dokumentation

Bestell-Nr.	Bezeichnung	Einsetzbar für
2 310 120	IQ/OQ Dokumentation, Kategorie 2	CORIO



Wartung

Bestell-Nr.	Bezeichnung	Einsetzbar für
2 350 102	Wartung JULABO Geräte, Kategorie 2 Zur Wartung zählen vorbeugende Maßnahmen, die helfen, die Funktionsfähigkeit aufrecht zu erhalten, zur Minimierung von Ausfallzeiten und Kosten. Eine JULABO Wartung beinhaltet folgende Tätigkeiten: Sichtprüfung, Reinigung, Funktionsprüfung und Ausstellung eines Wartungsprotokolls.	CORIO

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



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.

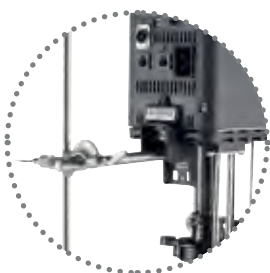
- Precise temperature control
- For internal standard applications
- For bath tanks with a max. filling volume of 30 liters
- Immersion depth: 7.5 ... 16.5 cm
- Bright, white, easy-to-read display
- Whisper quiet
- Easy operation
- Class I (NFL) according to DIN 12876-1

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 ¹⁾ +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 2

Circulation capacity l/min bar

Flow rate / Pressure 6 0.1

Dimensions cm W × L × H
13.2 × 16 × 36.2

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.

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 ¹⁾ +20 ... +150

Temperature stability °C ± 0.03

Heating capacity kW 2

Pump capacity l/min bar

Flow rate / Pressure 15 0.35

Dimensions cm W × L × H
13.2 × 16 × 36.2

CORIO™ CP

Order No. 9 013 000

Working temperature range °C ¹⁾ +20 ... +200

Temperature stability °C ± 0.02

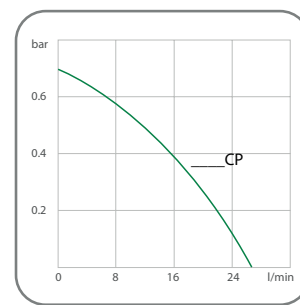
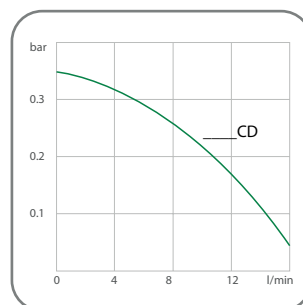
Heating capacity kW 2

Pump capacity l/min bar

Flow rate / Pressure 8 ... 27 0.1 ... 0.7

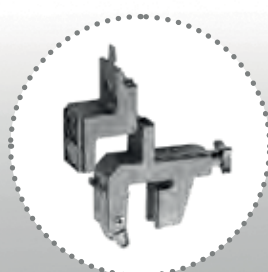
Dimensions cm W × L × H
13.2 × 16 × 36.2

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).

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 ¹⁾ +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 2

Circulation capacity l/min bar
Flow rate / Pressure 6 0.1

Bath opening / Bath depth cm W × L / D
15 × 15 / 15

Filling volume liters 3.5 ... 5

Dimensions cm W × L × H
23 × 38 × 38





CORIO™ C-BT9

Order No. 9 011 309

Working temperature range °C ¹⁾ +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 2

Circulation capacity l/min bar
Flow rate / Pressure 6 0.1

Bath opening / Bath depth cm
W × L / D 23 × 15 / 15

Filling volume liters 6 ... 9

Dimensions cm W × L × H
32 × 38 × 38



CORIO™ C-BT19

Order No. 9 011 319

Working temperature range °C ¹⁾ +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 2

Circulation capacity l/min bar
Flow rate / Pressure 6 0.1

Bath opening / Bath depth cm
W × L / D 30 × 35 / 15

Filling volume liters 14 ... 19

Dimensions cm W × L × H
38 × 58 × 38



CORIO™ C-BT27

Order No. 9 011 327

Working temperature range °C ¹⁾ +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 2

Circulation capacity l/min bar
Flow rate / Pressure 6 0.1

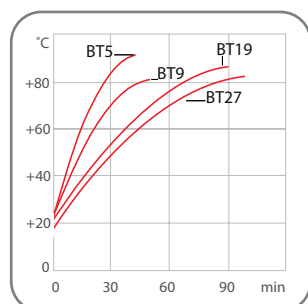
Bath opening / Bath depth cm
W × L / D 30 × 35 / 20

Filling volume liters 20 ... 27

Dimensions cm W × L × H
38 × 58 × 43

Heat-up time

Bath fluid: Water



Applications

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

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 ¹⁾ +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 2

Circulation capacity l/min bar
Flow rate / Pressure 6 0.1

Bath opening / Bath depth cm
W × L / D 15 × 15 / 15

Filling volume liters 3.5 ... 5

Dimensions cm
W × L × H 23 × 38 × 41





CORIO™ C-B13

Order No.	9 011 413		
Working temperature range °C ¹⁾	+20 ... +100		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Circulation capacity	l/min	b	
Flow rate / Pressure	6	0	
Bath opening / Bath depth cm	W × L / D 30 × 18 / 15		
Filling volume liters	9 ... 13		
Dimensions cm	W × L × H 38 × 40 × 42		



CORIO™ C-B17

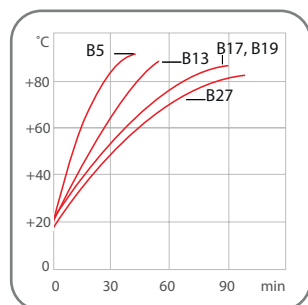
Order No.	9 011 417		
Working temperature range °C ¹⁾	+20 ... +100		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Circulation capacity	l/min	bar	
Flow rate / Pressure	6	0.1	
Bath opening / Bath depth cm	W × L / D 30 × 18 / 20		
Filling volume liters	13 ... 17		
Dimensions cm	W × L × H 38 × 40 × 47		



CORIO™ C-B19

Order No.	9 011 419		
Working temperature range °C ¹⁾	+20 ... +100		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Circulation capacity	l/min	bar	
Flow rate / Pressure	6	0.1	
Bath opening / Bath depth cm	W × L / D 30 × 35 / 15		
Filling volume liters	14 ... 19		
Dimensions cm	W × L × H 38 × 58 × 42		

Heat-up time Bath fluid: Water



CORIO™ C-B27

Order No.	9 011 427		
Working temperature range °C ¹⁾	+20 ... +100		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Circulation capacity	l/min	bar	
Flow rate / Pressure	6	0.1	
Bath opening / Bath depth cm	W × L / D 30 × 35 / 20		
Filling volume liters	17 ... 27		
Dimensions cm	W × L × H 38 × 58 × 47		

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

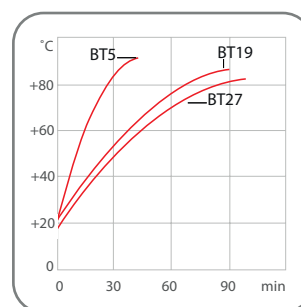
The Open Heating Bath Circulator of the CORIO series feature durable, high-quality transparent bath tanks and pump connections.

- 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).

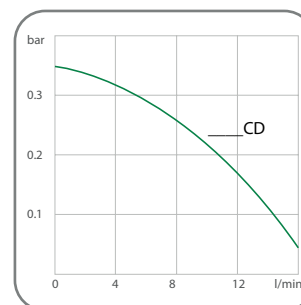
Heat-up time

Bath fluid: Water



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
Order No. 9 012 305

 Working temperature range °C ¹⁾ +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 2

 Pump capacity l/min bar
 Flow rate / Pressure 15 0.35

 Bath opening /
 Bath depth cm W × L / D
 15 × 15 / 15

Filling volume liters 3.5 ... 5

 Dimensions cm W × L × H
 23 × 38 × 38

CORIO™ CD-BT19
Order No. 9 012 319

 Working temperature range °C ¹⁾ +20 ... +100

Temperature stability °C ± 0.03

Heating capacity kW 2

 Pump capacity l/min bar
 Flow rate / Pressure 15 0.35

 Bath opening /
 Bath depth cm W × L / D
 30 × 35 / 15

Filling volume liters 14 ... 19

 Dimensions cm W × L × H
 38 × 58 × 38

CORIO™ CD-BT27
Order No. 9 012 327

 Working temperature range °C ¹⁾ +20 ... +100

Temperature stability °C ± 0.03

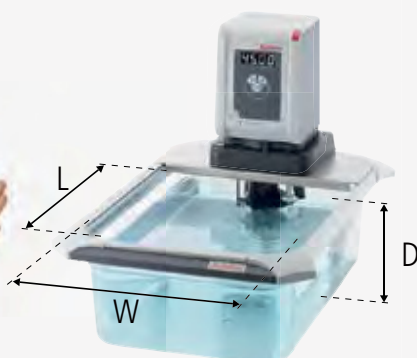
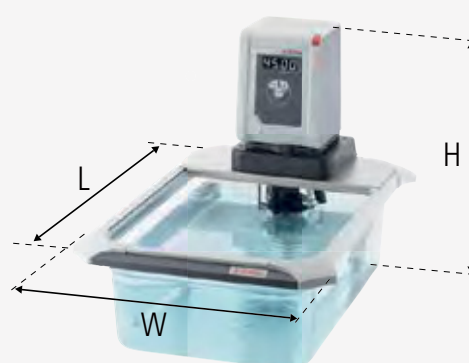
Heating capacity kW 2

 Pump capacity l/min bar
 Flow rate / Pressure 15 0.35

 Bath opening /
 Bath depth cm W × L / D
 30 × 35 / 20

Filling volume liters 20 ... 27

 Dimensions cm W × L × H
 38 × 58 × 43

 Bath opening:
 W × L / D

 Dimensions:
 W × L × H


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 ¹⁾ +20 ... +150

Temperature stability °C ± 0.03

Heating capacity kW 2

Pump capacity	l/min	bar
Flow rate / Pressure	15	0.35

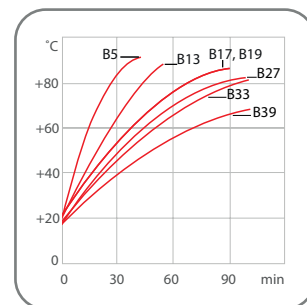
Bath opening / Bath depth cm	W × L / D
	15 × 15 / 15

Filling volume liters 3.5 ... 5

Dimensions cm	W × L × H
	23 × 38 × 41

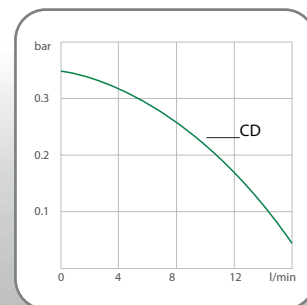
Heat-up time

Bath fluid: Water



Pump capacity

Bath fluid: Water





CORIO™ CD-B13

Order No.	9 012 413		
Working temperature range °C ¹⁾	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Pump capacity	l/min	bar	
Flow rate / Pressure	15	0.35	
Bath opening / Bath depth cm	W × L / D 30 × 18 / 15		
Filling volume liters	9 ... 13		
Dimensions cm	W × L × H 38 × 40 × 42		



CORIO™ CD-B17

Order No.	9 012 417		
Working temperature range °C ¹⁾	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Pump capacity	l/min	bar	
Flow rate / Pressure	15	0.35	
Bath opening / Bath depth cm	W × L / D 30 × 18 / 20		
Filling volume liters	13 ... 17		
Dimensions cm	W × L × H 38 × 40 × 47		



CORIO™ CD-B19

Order No.	9 012 419		
Working temperature range °C ¹⁾	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Pump capacity	l/min	bar	
Flow rate / Pressure	15	0.35	
Bath opening / Bath depth cm	W × L / D 30 × 35 / 15		
Filling volume liters	14 ... 19		
Dimensions cm	W × L × H 38 × 58 × 42		



CORIO™ CD-B27

Order No.	9 012 427		
Working temperature range °C ¹⁾	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Pump capacity	l/min	bar	
Flow rate / Pressure	15	0.35	
Bath opening / Bath depth cm	W × L / D 30 × 35 / 20		
Filling volume liters	17 ... 27		
Dimensions cm	W × L × H 38 × 58 × 47		



CORIO™ CD-B33

Order No.	9 012 433		
Working temperature range °C ¹⁾	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Pump capacity	l/min	bar	
Flow rate / Pressure	15	0.35	
Bath opening / Bath depth cm	W × L / D 66 × 32 / 15		
Filling volume liters	26 ... 39		
Dimensions cm	W × L × H 81 × 36 × 43		



CORIO™ CD-B39

Order No.	9 012 439		
Working temperature range °C ¹⁾	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Pump capacity	l/min	bar	
Flow rate / Pressure	15	0.35	
Bath opening / Bath depth cm	W × L / D 33 × 30 / 30		
Filling volume liters	35 ... 41		
Dimensions cm	W × L × H 54 × 34 × 57		

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

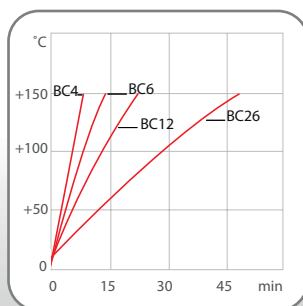
To adapt the CORIO Heating Circulator to your individual application we offer a comprehensive range of accessories (racks, bath lids, tubing, adapters, and more).

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



CORIO™ CD-BC4

Order No. 9 012 504

Working temperature range °C ¹⁾ +20 ... +150

Temperature stability °C ± 0.03

Heating capacity kW 2

Pump capacity l/min bar
Flow rate / Pressure 15 0.35

Bath opening / Bath depth cm W × L / D
13 × 15 / 15

Filling volume liters 3 ... 4.5

Dimensions cm W × L × H
23 × 41 × 42



CORIO™ CP-BC4

Order No. 9 013 504

Working temperature range °C ¹⁾ +20 ... +200

Temperature stability °C ± 0.02

Heating capacity kW 2

Pump capacity l/min bar
Flow rate / Pressure 8 ... 27 0.1 ... 0.7

Bath opening / Bath depth cm W × L / D
13 × 15 / 15

Filling volume liters 3 ... 4.5

Dimensions cm W × L × H
23 × 41 × 42


CORIO™ CD-BC6

Order No.	9 012 506		
Working temperature range °C ¹⁾	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Pump capacity	l/min	bar	
Flow rate / Pressure	15	0.35	
Bath opening / Bath depth cm	W × L / D 13 × 15 / 20		
Filling volume liters	4.5 ... 6		
Dimensions cm	W × L × H 24 × 44 × 47		


CORIO™ CD-BC12

Order No.	9 012 512		
Working temperature range °C ¹⁾	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Pump capacity	l/min	bar	
Flow rate / Pressure	15	0.35	
Bath opening / Bath depth cm	W × L / D 22 × 15 / 20		
Filling volume liters	8.5 ... 12		
Dimensions cm	W × L × H 33 × 49 × 47		


CORIO™ CD-BC26

Order No.	9 012 526		
Working temperature range °C ¹⁾	+20 ... +150		
Temperature stability °C	± 0.03		
Heating capacity kW	2		
Pump capacity	l/min	bar	
Flow rate / Pressure	15	0.35	
Bath opening / Bath depth cm	W × L / D 26 × 35 / 20		
Filling volume liters	19 ... 26		
Dimensions cm	W × L × H 39 × 62 × 48		


CORIO™ CP-BC6

Order No.	9 013 506		
Working temperature range °C ¹⁾	+20 ... +200		
Temperature stability °C	± 0.02		
Heating capacity kW	2		
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 13 × 15 / 20		
Filling volume liters	4.5 ... 6		
Dimensions cm	W × L × H 24 × 44 × 47		


CORIO™ CP-BC12

Order No.	9 013 512		
Working temperature range °C ¹⁾	+20 ... +200		
Temperature stability °C	± 0.02		
Heating capacity kW	2		
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 22 × 15 / 20		
Filling volume liters	8.5 ... 12		
Dimensions cm	W × L × H 33 × 49 × 47		


CORIO™ CP-BC26

Order No.	9 013 526		
Working temperature range °C ¹⁾	+20 ... +200		
Temperature stability °C	± 0.02		
Heating capacity kW	2		
Pump capacity	l/min	bar	
Flow rate / Pressure	8 ... 27	0.1 ... 0.7	
Bath opening / Bath depth cm	W × L / D 26 × 35 / 20		
Filling volume liters	19 ... 26		
Dimensions cm	W × L × H 39 × 62 × 48		

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



Thermal G

Order No. 5 liters 8 940 125

Order No. 10 liters 8 940 124

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

Flash point °C -

Fire point °C -

Viscosity, (kinematic at +20 °C) mm²/s 4.13 mPas

Density (at +20 °C) g/cm³ 1.0681 g/cm³

Pour point °C -44

Boiling point °C +109

Ignition temperature °C +410

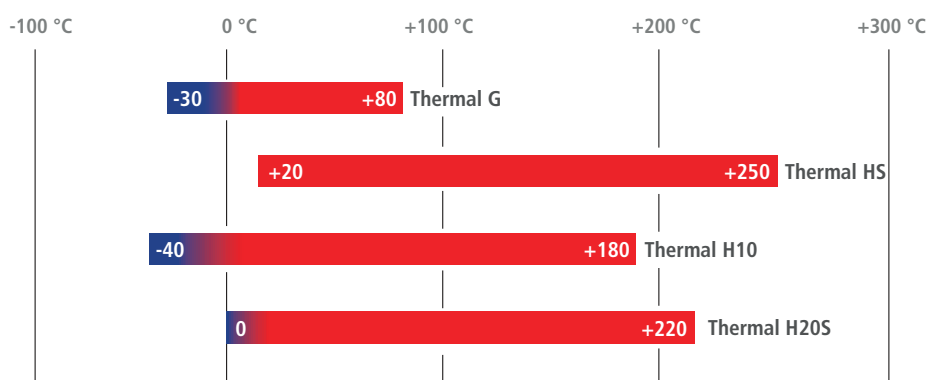
Color light yellow



Makes routine laboratory work easier.

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

Working temperature ranges





Thermal HS

Order No. 5 liters	8 940 103
Order No. 10 liters	8 940 102
Working temperature range °C	+50 ... +250
Flash point °C	>+250
Fire point °C	+360
Viscosity, (kinematic at +20 °C) mm²/s	50 mm²/s
Density (at +20 °C) g/cm³	0.97 g/cm³
Pour point °C	<-60
Boiling point °C	-
Ignition temperature °C	>+400
Color	light brown



Thermal H10

Order No. 5 liters	8 940 115
Order No. 10 liters	8 940 114
Working temperature range °C	-40 ... +180
Flash point °C	>+165
Fire point °C	+220
Viscosity, (kinematic at +20 °C) mm²/s	10
Density (at +20 °C) g/cm³	0.93
Pour point °C	<-60
Boiling point °C	+288
Ignition temperature °C	+370
Color	clear



Thermal H20S

Order No. 5 liters	8 940 109
Order No. 10 liters	8 940 108
Working temperature range °C	0 ... +220
Flash point °C	>+200
Fire point °C	+264
Viscosity, (kinematic at +20 °C) mm²/s	20
Density (at +20 °C) g/cm³	0.95
Pour point °C	-70
Boiling point °C	+424
Ignition temperature °C	+385
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.





Water bath protective media to prevent the formation of algae and bacteria and descaling agent

Order No.	Description	Suitable for
8 940 006	Aqua Stabil, 6 bottles 100 ml each	CORIO
8 940 012	Aqua Stabil, 12 bottles 100 ml each	CORIO
9 940 200	Descaling agent 1 Liter	CORIO



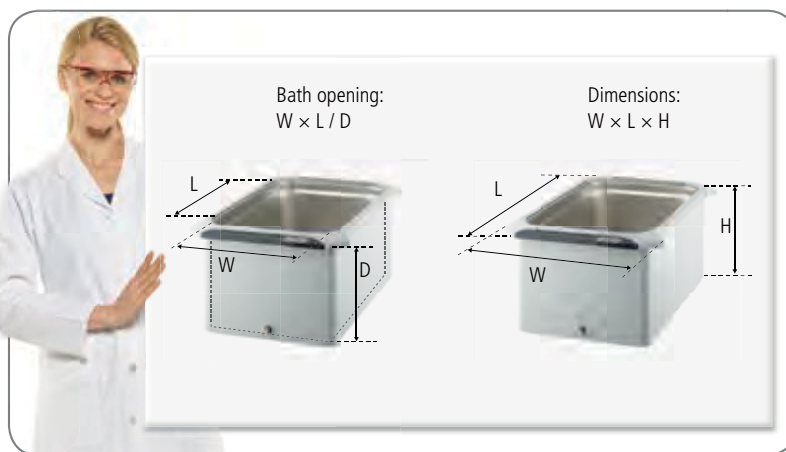
Transparent bath tanks up to +100 °C

Order No.	Description	Inner dimensions cm	Outer dimensions cm	Suitable for
9 901 305	Bath tank BT5	15 × 30/15	22 × 37 × 16	C, CD
9 901 309	Bath tank BT9	24 × 30/15	31 × 37 × 16	C, CD
9 901 319	Bath tank BT19	30 × 50/15	37 × 58 × 16	C, CD
9 901 327	Bath tank BT27	30 × 50/20	37 × 58 × 21	C, CD



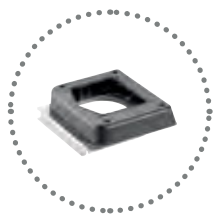
Stainless steel bath tanks up to +150 °C, insulated

Order No.	Description	Inner dimensions cm	Outer dimensions cm	Suitable for
9 903 405	Bath tank B5	15 × 30/15	22 × 37 × 20	C, CD
9 903 413	Bath tank B13	30 × 32/15	37 × 40 × 20	C, CD
9 903 417	Bath tank B17	30 × 32/20	37 × 40 × 25	C, CD
9 903 419	Bath tank B19	30 × 50/15	37 × 58 × 20	C, CD
9 903 427	Bath tank B27	30 × 50/20	37 × 58 × 25	C, CD
9 903 433	Bath tank B33	83 × 30/15	90 × 36 × 20	C, CD
9 903 439	Bath tank B39	30 × 50/30	34 × 58 × 35	C, CD



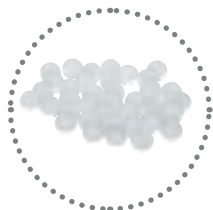
Bath covers

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



Assembly frames/extendable bridge

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
9 970 202	Extendable bridge, extendable from 330 mm to 680 mm with assembly frame	CORIO



Hollow balls to reduce heat loss, evaporation, oxygen input, odors, and 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)	CORIO



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



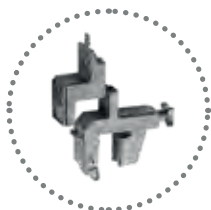
Which types of test tube racks are available for your bath and how many can be inserted?

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	-



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



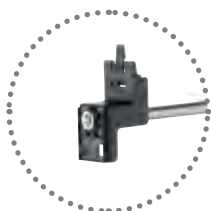
Universal bath attachment clamp

Order No.	Description	Suitable for
9 970 420	Bath attachment clamp for wall thickness up to 30 mm	CORIO



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.	CORIO



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
9 970 245	Bath cover with built-in heat exchanger	CD-BT5/B5, C-BT5/B5
9 970 100	Assembly cooling coil for counter-cooling with tap water	CD-BT5/19/27 CD-B5/13/17/19/27/33/39
9 970 101	Installation cooling coil for counter-cooling with tap water	C, C-BT5/9/19/27 C-B5/13/17/19/27, CD, CP



Lockable bath cover

Order No.	Suitable for
9 970 243	Lockable bath cover CD-BC12, CP-BC12


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 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 m Metal tubing with connector M16×1	CD, CP
8 930 224	2 m Metal tubing with connector M16×1	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
8 970 448	2 Elbow fittings 90°, M16×1 male/female, side length 1 × 54 mm / 1 × 120 mm	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
8 970 850	Shut-off valve (-60 °C ... +200 °C), M16×1	CORIO



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



Castor platform

Order No.	Description	Suitable for
8 910 040	Castor platform	CD, CP



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

Order No.	Description	Suitable for
8 901 102	EasyTEMP Software	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 Manufacturer's Certificates

Order No.	Description	Suitable for
8 902 901	1-point manufacturer's calibration certificate for circulators	CORIO
8 902 903	3-point manufacturer's calibration certificate for circulators	CORIO
8 902 905	5-point manufacturer's calibration certificate for circulators	CORIO
8 903 015	Manufacturer's Testing Certificate for JULABO Units, Category 1	CORIO



IQ/OQ Documentation

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



Maintenance

Order No.	Description	Suitable for
2 350 101	Maintenance JULABO Units, Category 1 Maintenance includes preventive measures that help to maintain functionality, to minimize downtime as well as costs. A JULABO maintenance comprises works such as visual inspection, cleaning, functional test and includes a maintenance report.	CORIO

The **JULABO** advantages at a glance.

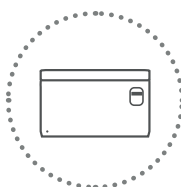
JULABO temperature control solutions – high-precision and speed

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



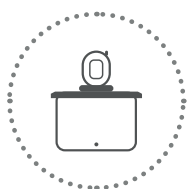
Refrigerated circulators

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, heating circulators with open bath, and heating circulators to cover a temperature range from +20 °C to +300 °C.



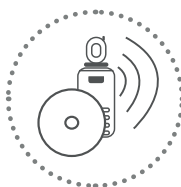
Additional products

In addition, the JULABO product portfolio offers instruments for special requirements such as calibration baths, beer forcing test baths, immersion / flow-through coolers and temperature controllers.



Highly dynamic temperature control systems

The highly dynamic temperature control systems from JULABO can be used for demanding temperature applications ranging from -93 °C to +400 °C. The PRESTO series offers unique high-performance specifications to meet these requirements.



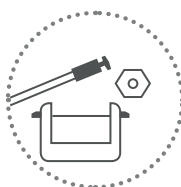
Wireless communication & software solutions

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



Recirculating coolers

The high degree of efficiency of JULABO recirculating coolers makes them an environmentally-friendly and economic alternative to tap water cooling in the temperature range -25 °C to +130 °C.



Accessories

An extensive range of accessories allows for adaptation of JULABO products 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.

Custom requirements - custom products

JULABO's wide range of products provide a solution for almost any application. If no standard product can be used for a specific requirement, our specialists will work out a custom solution together 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 detailed manuals get your instruments up and running on site.

**Services 24/7.**

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

Technical Specifications

Model	Order No.	Working temperature range °C	Display	Display resolution	Temperature control	Temperature stability °C	Heating capacity kW	Cooling unit
CD-200F	9 012 701	-20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CP-200F	9 013 701	-20 ... +200	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CD-201F	9 012 702	-20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CP-201F	9 013 702	-20 ... +200	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CD-300F	9 012 703	-25 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CP-300F	9 013 703	-25 ... +200	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CD-310F	9 012 713.N1*	-30 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CP-310F	9 013 713.N1*	-30 ... +200	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CD-450F	9 012 714.N1*	-30 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CP-450F	9 013 714.N1*	-30 ... +200	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CD-449F	9 012 716.N1	-32 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CP-449F	9 013 716.N1	-32 ... +200	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CD-600F	9 012 704	-35 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CP-600F	9 013 704	-35 ... +200	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CD-601F	9 012 705	-35 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CP-601F	9 013 705	-35 ... +200	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CD-900F	9 012 706	-38 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CP-900F	9 013 706	-38 ... +200	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CD-1000F	9 012 707	-40 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CP-1000F	9 013 707	-50 ... +200	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CD-1000FW	9 012 727	-40 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	Water
CP-1000FW	9 013 727	-50 ... +200	LED	0.01 - 0.1	PID1	± 0.03	2	Water
CD-1001F	9 012 708	-38 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	Air
CP-1001F	9 013 708	-38 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	Air
C	9 011 000	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	-
CD	9 012 000	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	-
CP	9 013 000	+20 ... +200	LED	0.01 - 0.1	PID1	± 0.02	2	-
C-BT5	9 011 305	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	-
C-BT9	9 011 309	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	-
C-BT19	9 011 319	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	-
C-BT27	9 011 327	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	-
C-B5	9 011 405	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	-
C-B13	9 011 413	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	-
C-B17	9 011 417	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	-
C-B19	9 011 419	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	-
C-B27	9 011 427	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	-
CD-BT5	9 012 305	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	-
CD-BT19	9 012 319	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	-
CD-BT27	9 012 327	+20 ... +100	LED	0.01 - 0.1	PID1	± 0.03	2	-
CD-B5	9 012 405	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	-
CD-B13	9 012 413	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	-
CD-B17	9 012 417	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	-
CD-B19	9 012 419	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	-
CD-B27	9 012 427	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	-
CD-B33	9 012 433	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	-
CD-B39	9 012 439	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	-
CD-BC4	9 012 504	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	-
CP-BC4	9 013 504	+20 ... +200	LED	0.01 - 0.1	PID1	± 0.02	2	-
CD-BC6	9 012 506	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	-
CP-BC6	9 013 506	+20 ... +200	LED	0.01 - 0.1	PID1	± 0.02	2	-
CD-BC12	9 012 512	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	-
CP-BC12	9 013 512	+20 ... +200	LED	0.01 - 0.1	PID1	± 0.02	2	-
CD-BC26	9 012 526	+20 ... +150	LED	0.01 - 0.1	PID1	± 0.03	2	-
CP-BC26	9 013 526	+20 ... +200	LED	0.01 - 0.1	PID1	± 0.02	2	-

Cooling capacity (kW) at bath temperature in °C (Medium: Ethanol)						Type ☉ Pressure pump ☹ Circulation pump	Pump Pressure	Flow rate	Pump connections	Filling volume
+20	0	-10	-20	-30	-40		bar	liters/min	male	liters
0.22	0.17	0.13	0.06	-	-	☉	0.35	15	M16×1	3 ... 4
0.2	0.15	0.1	0.02	-	-	☉	0.1 ... 0.7	8 ... 27	M16×1	3 ... 4
0.22	0.16	0.12	0.06	-	-	☉	0.35	15	M16×1	3 ... 4
0.2	0.15	0.1	0.02	-	-	☉	0.1 ... 0.7	8 ... 27	M16×1	3 ... 4
0.31	0.28	0.20	0.11	-	-	☉	0.35	15	M16×1	3 ... 4
0.3	0.27	0.19	0.08	-	-	☉	0.1 ... 0.7	8 ... 27	M16×1	3 ... 4
0.31	0.28	0.22	0.13	0.03	.	☉	0.35	15	M16×1	3 ... 4
0.3	0.27	0.21	0.12	0.02	-	☉	0.1 ... 0.7	8 ... 27	M16×1	3 ... 4
0.45	0.38	0.28	0.17	0.07	-	☉	0.35	15	M16×1	3 ... 4
0.44	0.37	0.27	0.16	0.06	-	☉	0.1 ... 0.7	8 ... 27	M16×1	3 ... 4
0.45	0.36	0.28	0.21	0.07	-	☉	0.35	15	M16×1	21 ... 30
0.44	0.35	0.27	0.2	0.06	-	☉	0.1 ... 0.7	8 ... 27	M16×1	21 ... 30
0.6	0.46	0.29	0.18	0.06	-	☉	0.35	15	M16×1	5 ... 7.5
0.6	0.44	0.27	0.16	0.04	-	☉	0.1 ... 0.7	8 ... 27	M16×1	5 ... 7.5
0.6	0.46	0.29	0.18	0.06	-	☉	0.35	15	M16×1	8 ... 10
0.6	0.44	0.27	0.16	0.04	-	☉	0.1 ... 0.7	8 ... 27	M16×1	8 ... 10
0.9	0.8	0.55	0.35	0.15	0.02	☉	0.35	15	M16×1	21 ... 30
0.9	0.8	0.52	0.31	0.11	-	☉	0.1 ... 0.7	8 ... 27	M16×1	21 ... 30
1	0.98	0.75	0.5	0.27	0.13	☉	0.35	15	M16×1	5 ... 7.5
1	0.96	0.73	0.5	0.25	0.11	☉	0.1 ... 0.7	8 ... 27	M16×1	5 ... 7.5
1	0.98	0.75	0.53	0.27	0.13	☉	0.35	15	M16×1	5 ... 7.5
1	0.96	0.73	0.51	0.25	0.11	☉	0.1 ... 0.7	8 ... 27	M16×1	5 ... 7.5
1	0.95	0.63	0.35	0.13	-	☉	0.35	15	M16×1	42 ... 56
1	0.85	0.6	0.32	0.12	-	☉	0.1 ... 0.7	8 ... 27	M16×1	42 ... 56
-	-	-	-	-	-	☹	0.1	6	-	-
-	-	-	-	-	-	☉	0.35	15	-	-
-	-	-	-	-	-	☉	0.1 ... 0.7	8 ... 27	-	-
-	-	-	-	-	-	☹	0.1	6	-	3.5 ... 5
-	-	-	-	-	-	☹	0.1	6	-	6 ... 9
-	-	-	-	-	-	☹	0.1	6	-	14 ... 19
-	-	-	-	-	-	☹	0.1	6	-	20 ... 27
-	-	-	-	-	-	☹	0.1	6	-	3.5 ... 5
-	-	-	-	-	-	☹	0.1	6	-	9 ... 13
-	-	-	-	-	-	☹	0.1	6	-	13 ... 17
-	-	-	-	-	-	☹	0.1	6	-	14 ... 19
-	-	-	-	-	-	☹	0.1	6	-	17 ... 27
-	-	-	-	-	-	☉	0.35	15	M16×1	3.5 ... 5
-	-	-	-	-	-	☉	0.35	15	M16×1	14 ... 19
-	-	-	-	-	-	☉	0.35	15	M16×1	20 ... 27
-	-	-	-	-	-	☉	0.35	15	M16×1	3.5 ... 5
-	-	-	-	-	-	☉	0.35	15	M16×1	9 ... 13
-	-	-	-	-	-	☉	0.35	15	M16×1	13 ... 17
-	-	-	-	-	-	☉	0.35	15	M16×1	14 ... 19
-	-	-	-	-	-	☉	0.35	15	M16×1	17 ... 27
-	-	-	-	-	-	☉	0.35	15	M16×1	26 ... 39
-	-	-	-	-	-	☉	0.35	15	M16×1	35 ... 41
-	-	-	-	-	-	☉	0.35	15	M16×1	3 ... 4.5
-	-	-	-	-	-	☉	0.1 ... 0.7	8 ... 27	M16×1	3 ... 4.5
-	-	-	-	-	-	☉	0.35	15	M16×1	4.5 ... 6
-	-	-	-	-	-	☉	0.1 ... 0.7	8 ... 27	M16×1	4.5 ... 6
-	-	-	-	-	-	☉	0.35	15	M16×1	8.5 ... 12
-	-	-	-	-	-	☉	0.1 ... 0.7	8 ... 27	M16×1	8.5 ... 12
-	-	-	-	-	-	☉	0.35	15	M16×1	19 ... 26
-	-	-	-	-	-	☉	0.1 ... 0.7	8 ... 27	M16×1	19 ... 26

Classification acc.to DIN 12876-1	Power requirement V / Hz / A	USB interface	RS232 interface	Permissible ambient temperature °C	Usable bath opening W x L / D cm	Dimensions W x L x H cm	Weight net kg	Model
III (FL)	230/50/12	yes	-	5 ... 40	13 x 15 / 15	23 x 39 x 65	26	CD-200F
III (FL)	230/50/12	yes	yes	5 ... 40	13 x 15 / 15	23 x 39 x 65	25.7	CP-200F
III (FL)	230/50/12	yes	-	5 ... 40	13 x 15 / 15	44 x 41 x 44	25	CD-201F
III (FL)	230/50/12	yes	yes	5 ... 40	13 x 15 / 15	44 x 41 x 44	24.7	CP-201F
III (FL)	230/50/12	yes	-	5 ... 40	13 x 15 / 15	24 x 42 x 66	28	CD-300F
III (FL)	230/50/12	yes	yes	5 ... 40	13 x 15 / 15	24 x 42 x 66	27.7	CP-300F
III (FL)	230/50/13	yes	-	5 ... 40	13 x 15 / 15	23 x 40 x 65	25.2	CD-310F
III (FL)	230/50/13	yes	yes	5 ... 40	13 x 15 / 15	23 x 40 x 65	25.6	CP-310F
III (FL)	230/50/13	yes	-	5 ... 40	13 x 15 / 15	23 x 40 x 65	25.1	CD-450F
III (FL)	230/50/13	yes	yes	5 ... 40	13 x 15 / 15	23 x 40 x 65	25.6	CP-450F
III (FL)	230/50/12	yes	-	5 ... 40	28 x 35 / 20	37 x 59 x 69	39.5	CD-449F
III (FL)	230/50/12	yes	yes	5 ... 40	28 x 35 / 20	37 x 59 x 69	39.5	CP-449F
III (FL)	230/50/14	yes	-	5 ... 40	22 x 15 / 15	33 x 47 x 69	36	CD-600F
III (FL)	230/50/14	yes	yes	5 ... 40	22 x 15 / 15	33 x 47 x 69	35.7	CP-600F
III (FL)	230/50/14	yes	-	5 ... 40	22 x 15 / 20	33 x 47 x 74	38.5	CD-601F
III (FL)	230/50/14	yes	yes	5 ... 40	22 x 15 / 20	33 x 47 x 74	38.5	CP-601F
III (FL)	230/50/14	yes	-	5 ... 40	26 x 35 / 20	39 x 62 x 75	52	CD-900F
III (FL)	230/50/14	yes	yes	5 ... 40	26 x 35 / 20	39 x 62 x 75	52	CP-900F
III (FL)	230/50/14	yes	-	5 ... 40	18 x 13 / 15	42 x 49 x 74	51.5	CD-1000F
III (FL)	230/50/14	yes	yes	5 ... 40	18 x 13 / 15	42 x 49 x 74	51.5	CP-1000F
III (FL)	230/50/14	yes	-	5 ... 40	18 x 13 / 15	42 x 49 x 74	51.5	CD-1000FW
III (FL)	230/50/16	yes	yes	5 ... 40	18 x 13 / 15	42 x 49 x 74	51.5	CP-1000FW
III (FL)	230/50/14	yes	-	5 ... 40	35 x 41 / 30	45 x 64 x 95	74	CD-1001F
III (FL)	230/50/14	yes	yes	5 ... 40	35 x 41 / 30	45 x 64 x 95	73.7	CP-1001F
I (NFL)	230/50-60/9	-	-	5 ... 40	-	13.2 x 16 x 36.2	1.9	C
III (FL)	230/50/10	yes	-	5 ... 40	-	13.2 x 16 x 36.2	2.6	CD
III (FL)	230/50/10	yes	yes	5 ... 40	-	13.2 x 16 x 36.2	2.5	CP
I (NFL)	230/50-60/9	-	-	5 ... 40	15 x 15 / 15	23 x 38 x 38	4.8	C-BT5
I (NFL)	230/50-60/9	-	-	5 ... 40	23 x 15 / 15	32 x 38 x 38	3.9	C-BT9
I (NFL)	230/50-60/9	-	-	5 ... 40	30 x 35 / 15	38 x 58 x 38	7	C-BT19
I (NFL)	230/50-60/9	-	-	5 ... 40	30 x 35 / 20	38 x 58 x 43	7.2	C-BT27
I (NFL)	230/50-60/9	-	-	5 ... 40	15 x 15 / 15	23 x 38 x 41	7.3	C-B5
I (NFL)	230/50-60/9	-	-	5 ... 40	30 x 18 / 15	38 x 40 x 42	8.2	C-B13
I (NFL)	230/50-60/9	-	-	5 ... 40	30 x 18 / 20	38 x 40 x 47	9.3	C-B17
I (NFL)	230/50-60/9	-	-	5 ... 40	30 x 35 / 15	38 x 58 x 42	10.5	C-B19
I (NFL)	230/50-60/9	-	-	5 ... 40	30 x 35 / 20	38 x 58 x 47	12	C-B27
III (FL)	230/50/10	yes	-	5 ... 40	15 x 15 / 15	23 x 38 x 38	5.7	CD-BT5
III (FL)	230/50/10	yes	-	5 ... 40	30 x 35 / 15	38 x 58 x 38	8	CD-BT19
III (FL)	230/50/10	yes	-	5 ... 40	30 x 35 / 20	38 x 58 x 43	8.1	CD-BT27
III (FL)	230/50/10	yes	-	5 ... 40	15 x 15 / 15	23 x 38 x 41	8.2	CD-B5
III (FL)	230/50/10	yes	-	5 ... 40	30 x 18 / 15	38 x 40 x 42	9.1	CD-B13
III (FL)	230/50/10	yes	-	5 ... 40	30 x 18 / 20	38 x 40 x 47	9.3	CD-B17
III (FL)	230/50/10	yes	-	5 ... 40	30 x 35 / 15	38 x 58 x 42	11.5	CD-B19
III (FL)	230/50/10	yes	-	5 ... 40	30 x 35 / 20	38 x 58 x 47	13	CD-B27
III (FL)	230/50/10	yes	-	5 ... 40	66 x 32 / 15	91 x 36 x 43	21	CD-B33
III (FL)	230/50/10	yes	-	5 ... 40	33 x 30 / 30	54 x 34 x 57	18	CD-B39
III (FL)	230/50/10	yes	-	5 ... 40	13 x 15 / 15	23 x 41 x 42	8.8	CD-BC4
III (FL)	230/50/10	yes	yes	5 ... 40	13 x 15 / 15	23 x 41 x 42	8.5	CP-BC4
III (FL)	230/50/10	yes	-	5 ... 40	13 x 15 / 20	24 x 44 x 47	10	CD-BC6
III (FL)	230/50/10	yes	yes	5 ... 40	13 x 15 / 20	24 x 44 x 47	10	CP-BC6
III (FL)	230/50/10	yes	-	5 ... 40	22 x 15 / 20	33 x 49 x 47	12.2	CD-BC12
III (FL)	230/50/10	yes	yes	5 ... 40	22 x 15 / 20	33 x 49 x 47	12	CP-BC12
III (FL)	230/50/10	yes	-	5 ... 40	26 x 35 / 20	39 x 62 x 48	19	CD-BC26
III (FL)	230/50/10	yes	yes	5 ... 40	26 x 35 / 20	39 x 62 x 48	19	CP-BC26

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	-
CP-200F	9 013 701	-	-	1.6 ... 2	-	1	0.8	-
CD-201F	9 012 702	2	1.6 ... 2	-	-	1	0.8	-
CP-201F	9 013 702	-	-	1.6 ... 2	-	1	0.8	-
CD-300F	9 012 703	2	1.6 ... 2	-	-	1	0.8	-
CP-300F	9 013 703	2	1.6 ... 2	-	-	1	0.8	-
CD-310F	9 012 713.N1*	2	1.6 ... 2	-	-	1	0.8	-
CP-310F	9 013 713.N1*	2	1.6 ... 2	-	-	1	0.8	-
CD-450F	9 012 714.N1*	2	1.6 ... 2	-	-	1	0.8	-
CP-450F	9 013 714.N1*	2	1.6 ... 2	-	-	1	0.8	-
CD-449F	9 012 716.N1	2	1.6 ... 2	-	-	-	-	-
CP-449F	9 013 716.N1	2	1.6 ... 2	-	-	-	-	-
CD-600F	9 012 704	2	1.6 ... 2	-	-	1	0.8	-
CP-600F	9 013 704	-	-	1.6 ... 2	-	1	0.8	1.5
CD-601F	9 012 705	2	1.6 ... 2	-	-	1	0.8	-
CP-601F	9 013 705	-	-	1.6 ... 2	-	1	0.8	1.5
CD-900F	9 012 706	2	1.6 ... 2	-	-	1	-	1.5
CP-900F	9 013 706	-	-	1.6 ... 2	-	1	-	1.5
CD-1000F	9 012 707	2	1.6 ... 2	-	-	1	-	1.5
CP-1000F	9 013 707	-	-	1.6 ... 2	-	1	-	1.5
CD-1000FW	9 012 727	2	1.6 ... 2	-	-	1	-	-
CP-1000FW	9 013 727	-	-	1.6 ... 2	-	1	-	1.5
CD-1001F	9 012 708	2	1.6 ... 2	-	-	-	-	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	2	1.6 ... 2	-	-	1	0.8	-
C-BT5	9 011 305	-	-	1.6 ... 2	0.8 ... 1	-	-	-
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