

NEW
MODELS

Julabo

THE TEMPERATURE CONTROL COMPANY

CORIO™



ENGLISH



CORIO™ – the new laboratory circulators

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The CORIO™ advantages at a glance.



Brilliant.

Bright display with strong 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.



Unique.

Specially designed pyramids ensure that the condensed liquid drips directly back into the bath.



Click.

One for all. Control the circulator and the refrigeration unit with only one power switch.



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.

JULABO
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.

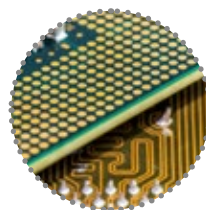
Makes day-to-day work easy. Comfortably move your CORIO™ around by using the ergonomic handles (front and rear).





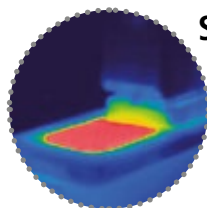
Safety.

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



Modern. Reliable.

Every CORIO™ is equipped with high-grade components like i.e. platinum sensors, proven motor technology, CAN-Bus communication and much more.



Solid.

Minimized energy loss through high-quality insulation.



ATC.

Absolute Temperature Calibration, 1-point calibration.



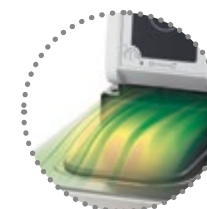
Mobile.

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



Exact.

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



Condensation protection.

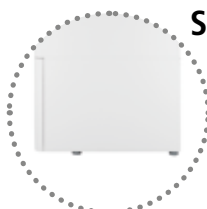
Superb design solution. Integrated ventilation directs air over the bath lid and minimizes condensation.



Locked in.

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

JULABO exclusive



Stable.

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



Tidy.

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



USB.

Remote control made easy. CORIO™ CD circulators feature a USB connection.



Connection. Easy.

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



NEW. CORIO™.

Powerful. Robust.

CORIO™ is derived from the word 'Core'. Because the core characteristics of these newly developed laboratory circulators are exact temperature, absolute precision, and a wide working temperature range. In addition CORIO™ is equipped with all the core functions required in your laboratory for the temperature control of a wide variety of applications and samples.

Everything you need. Inside and out.

Precise, robust, and easy to operate units have proven their value in research and industry. That is all you really need. CORIO™ fulfills the highest demands for precision, reliability and handling. And that's not all. CORIO™ offers numerous additional advantages which will facilitate your daily work. An added value which will pay off.

Modern. Ambitious.

CORIO™ accentuates JULABO's ambition to create forward-looking technologies for modern laboratories. Outstanding functionality, ergonomics, easy operation, and a modern design. That is the core. That is CORIO™.

Ergonomic. Elegant.

CORIO™ makes day-to-day laboratory tasks easier. With a user-friendly operation. A bright and clear display. Easy start-up. Exceptional core functions - you will be able to master the new CORIO™ in no time at all.

New. Different.

It is the multitude of innovative details which make CORIO™ products unique. Discover the many advantages for yourself.





CORIO™. The best for your laboratory!

Made in Germany!

CORIO™ is produced according to the highest German quality standards. They utilize reliable and robust core equipment. They feature platinum sensors, proven motor technology, and CAN-Bus communication. Product development consistently applied environmentally friendly materials and technologies.

More comfort in your laboratory!

Switch on. And off you go. With the intelligent operating concept you will be able to set the new CORIO™ quickly and safely. All operating controls and safety functions can be accessed easily from the front. Not only do the new CORIO™ look good, they include integrated handles for superior ergonomics. The elegant, rounded design makes cleaning a breeze.

Safety for users and their processes!

CORIO™ is safe. The circulator and the refrigeration unit are operated via one common switch. The outstanding design of the bath lid and insulation prevent direct contact with hot surfaces. Rubber feet allow for a secured footing. A lockable power plug provides a secure connection which cannot be disconnected by accident. And the best: a stable and reliable performance of the CORIO™ at ambient temperatures of up to +40 °C.

Maximum benefit for your laboratory!

The new drain tap permits easy draining of your CORIO™ without tools – a clever and handy solution. The integrated USB interface of all CORIO™ CD models allows remote control. And only JULABO offers temperature control units with closed side panels. This saves laboratory space as you can place your CORIO™ right next to other units and applications.

Refrigerated Circulators



The Refrigerated / Heating Circulators of the new 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 Series

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

Refrigerated / Heating Circulators of the new CORIO™ series distinguish themselves with a great price-to-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 (M16x1)
- 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

| | | |
|--|---------------------------|---------------|
| Order No. | 9 012 701 | |
| Model | CD-200F | |
| 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 x L / D 13 x 15 / 15 | |
| Filling volume liters | 3 ... 4 | |
| Dimensions cm | W x L x H 23 x 39 x 65 | |



CORIO™ CD-201F

| | | |
|--|---------------------------|---------------|
| Order No. | 9 012 702 | |
| Model | CD-201F | |
| 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 x L / D 13 x 15 / 15 | |
| Filling volume liters | 3 ... 4 | |
| Dimensions cm | W x L x H 44 x 41 x 44 | |

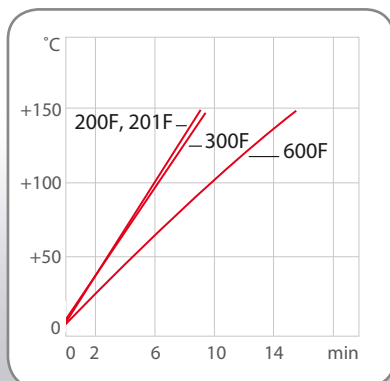


CORIO™ CD-300F

| | | |
|--|---------------------------|---------------|
| Order No. | 9 012 703 | |
| Model | CD-300F | |
| 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 |
| | 0.2 | 0.11 |
| Pump capacity | l/min | bar |
| Flow rate / Pressure | 15 | 0.35 |
| Bath opening / Bath depth cm | W x L / D 13 x 15 / 15 | |
| Filling volume liters | 3 ... 4 | |
| Dimensions cm | W x L x H 24 x 42 x 66 | |

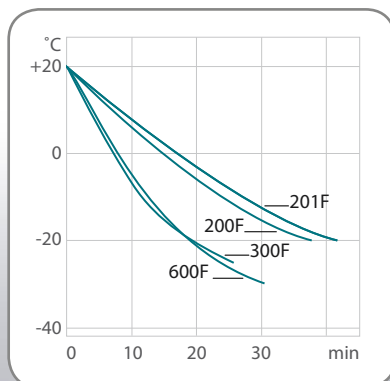
Heat-up time

Bath fluid: Thermal



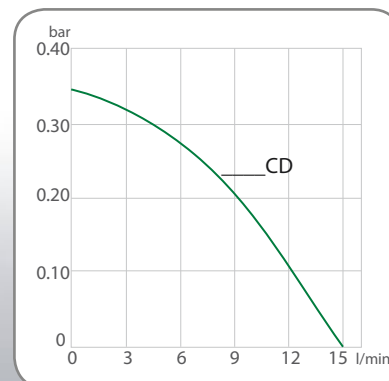
Cool-down time

Bath fluid: Ethanol



Pump capacity

Bath fluid: Water



Refrigerated Circulators



CORIO™ CD-600F

| | | | |
|--|---------------------------|--------|--------|
| Order No. | 9 012 704 | | |
| Model | CD-600F | | |
| 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 | 0.53 | 0.35 |
| | -20 °C | -30 °C | -40 °C |
| | 0.22 | 0.1 | - |
| Pump capacity | l/min | bar | |
| Flow rate / Pressure | 15 | 0.35 | |
| Bath opening / Bath depth cm | W x L / D 22 x 15 / 15 | | |
| Filling volume liters | 5 ... 7.5 | | |
| Dimensions cm | W x L x H 33 x 47 x 69 | | |



CORIO™ CD-601F



| | | | |
|--|---------------------------|--------|--------|
| Order No. | 9 012 705 | | |
| Model | CD-601F | | |
| Working temperature range °C | -40 ... +150 | | |
| Temperature stability °C | ± 0.03 | | |
| Heating capacity kW | 2 | | |
| Cooling capacity kW (Bath fluid: Ethanol) | +20 °C | 0 °C | -10 °C |
| | 0.6 | 0.5 | 0.35 |
| | -20 °C | -30 °C | -40 °C |
| | 0.2 | 0.07 | 0.01 |
| Pump capacity | l/min | bar | |
| Flow rate / Pressure | 15 | 0.35 | |
| Bath opening / Bath depth cm | W x L / D 22 x 15 / 20 | | |
| Filling volume liters | 8 ... 10 | | |
| Dimensions cm | W x L x H 36 x 46 x 74 | | |



The CORIO™ Principle

Powerful. Robust. CORIO™ features all core functions for the temperature control of a wide variety of applications and samples.

Everything you need. Inside and out. All that is needed for daily routine tasks in laboratories and industry.

Ergonomic. Elegant. CORIO™ incorporates forward-looking technologies with highest demands for precision, reliability, economy and operation.

New. Different. Discover the numerous advantages of the CORIO™ generation.



CORIO™ CD-900F



| | | | |
|--|---------------------------|--------|--------|
| Order No. | 9 012 706 | | |
| Model | CD-900F | | |
| Working temperature range °C | -40 ... +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 x L / D 26 x 35 / 20 | | |
| Filling volume liters | 21 ... 30 | | |
| Dimensions cm | W x L x H 39 x 62 x 75 | | |

CORIO™ CD-1000F



| | | | |
|--|---------------------------|--------|--------|
| Order No. | 9 012 707 | | |
| Model | CD-1000F | | |
| Working temperature range °C | -40 ... +150 | | |
| Temperature stability °C | ± 0.03 | | |
| Heating capacity kW | 2 | | |
| Cooling capacity kW (Bath fluid: Ethanol) | +20 °C | 0 °C | -10 °C |
| | 1 | 0.9 | 0.73 |
| | -20 °C | -30 °C | -40 °C |
| | 0.5 | 0.25 | 0.1 |
| Pump capacity | l/min | bar | |
| Flow rate / Pressure | 15 | 0.35 | |
| Bath opening / Bath depth cm | W x L / D 22 x 15 / 15 | | |
| Filling volume liters | 5 ... 7.5 | | |
| Dimensions cm | W x L x H 42 x 49 x 70 | | |

CORIO™ CD-1001F



| | | | |
|--|---------------------------|--------|--------|
| Order No. | 9 012 708 | | |
| Model | CD-1001F | | |
| 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 | 0.63 |
| | -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 x L / D 35 x 41 / 30 | | |
| Filling volume liters | 42 ... 56 | | |
| Dimensions cm | W x L x H 45 x 64 x 95 | | |



Saves energy.

CORIO™ comes 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 Accessories

JULABO Thermal Bath Fluids

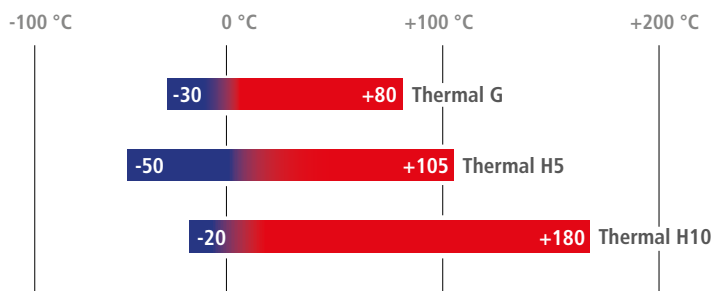
JULABO Thermal bath fluids have been carefully chosen after long-term testing. They are highly suitable for all of your temperature control applications guaranteeing safe and reliable operation.

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

Advantages

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

Working temperature range



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 not applicable

Fire point °C not applicable

Viscosity, (kinematic at +20 °C) mm²/s 4.07

Density (at +20 °C) g/cm³ 1.08

Pour point °C -70

Boiling point °C +108

Ignition temperature °C +430

Color light yellow

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 +124

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 -20 ... +180

Flash point °C >+170

Fire point °C +220

Viscosity, (kinematic at +20 °C) mm²/s 10.8

Density (at +20 °C) g/cm³ 0.94

Pour point °C <-60

Boiling point °C +288

Ignition temperature °C +370

Color clear

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 high dielectric strength. 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.

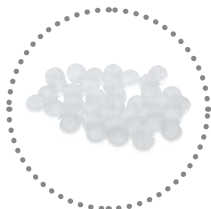


Refrigerated Circulators Accessories



Aqua Stabil Water protective media to prevent formation of algae and bacteria and Descaling Agent

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



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) | CD |



Heat exchangers / Cooling installations

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



CR[®] tubing (-30 ... +120 °C)

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



Viton[®] tubing (-35 ... +200 °C)

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



Tubing insulation (-50...+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 ... +200 °C

| Order No. | Description | Suitable for |
|-----------|---|--------------|
| 8 930 220 | 0.5 m Metal tubing, 2 fittings M16x1 female | CD |
| 8 930 221 | 1.0 m Metal tubing, 2 fittings M16x1 female | CD |
| 8 930 222 | 1.5 m Metal tubing, 2 fittings M16x1 female | CD |
| 8 930 223 | 3.0 m Metal tubing, 2 fittings M16x1 female | CD |



Adapters and connectors

| Order No. | Description | Suitable for |
|-----------|---|--------------|
| 8 970 446 | 2 Barbed fittings for tubing 8 mm inner dia. | CD |
| 8 970 447 | 2 Barbed fittings for tubing 10 mm inner dia. | CD |
| 8 970 445 | 2 Barbed fittings for tubing 12 mm inner dia. | CD |
| 8 970 443 | 1 Adapter M16x1 male to M16x1 male | CD |
| 8 970 490 | 2 Collar nuts M16x1 female | CD |
| 8 970 442 | 2 Elbow fittings 90°, M16x1 female/male | CD |
| 8 890 004 | 2 Adapters M16x1 female to NPT 1/4" male | CD |
| 8 890 005 | 2 Adapters M16x1 female to NPT 1/4" female | CD |
| 8 890 006 | 2 Adapters M16x1 female to NPT 3/8" male | CD |
| 8 890 007 | 2 Adapters M16x1 female to NPT 3/8" female | CD |
| 8 890 008 | 2 Adapters M16x1 female to NPT 1/2" male | CD |
| 8 890 009 | 2 Adapters M16x1 female to NPT 1/2" female | CD |
| 8 890 010 | 2 Adapters M16x1 male to NPT 1/4" female | CD |
| 8 891 008 | 1 Adapter M16x1 male to BSP 1/2" female | CD |
| 8 891 009 | 1 Adapter M16x1 male to BSP 3/4" female | CD |
| 8 890 011 | 2 Adapters M16x1 female to tube 1/4" male | CD |
| 8 890 012 | 2 Adapters M16x1 female to tube 3/8" male | CD |
| 8 890 013 | 2 Adapters M16x1 female to tube 1/2" male | CD |
| 8 890 024 | 2 Adapters M16x1 female to M16x1 female | CD |



Shut-off valves for loop circuit



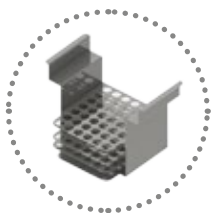
| Order No. | Description | Suitable for |
|-----------|--|--------------|
| 8 970 457 | Shut-off valve (-30 °C ... +200 °C), M16x1 | CD |
| 8 970 456 | Shut-off valve (-10 °C ... +100 °C), M16x1 | CD |

Twin distributing adapters with barbed fittings



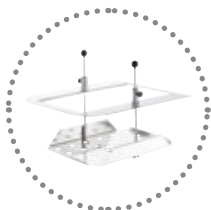
| Order No. | Description | Suitable for |
|-----------|--|-------------------------|
| 8 970 470 | Twin distributing adapter with barbed fittings | Tubing 8 mm inner dia. |
| 8 970 471 | Twin distributing adapter with barbed fittings | Tubing 12 mm inner dia. |
| 8 970 472 | Twin distributing adapter with barbed fittings | Tubing 10 mm inner dia. |
| 8 970 473 | Twin distributing adapter M16x1 female to 2 x M16x1 male | CD |

Refrigerated Circulators Accessories



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 x 17 mm dia. | CD-200F, CD-201F, CD-300F |
| 9 970 321 | Test tube rack for 42 tubes 75 x 12/13 mm dia. | CD-200F, CD-201F, CD-300F |
| 9 970 322 | Test tube rack for 42 tubes 40 x 10/11 mm dia. | CD-200F, CD-201F, CD-300F |
| 9 970 323 | Test tube rack for 10 Falcon tubes 50 ml | CD-200F, CD-201F, CD-300F |



Immersion-height adjustable platforms

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



Accessories Beer Forcing Test

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



EasyTEMP Software for instrument control, data recording and visualization

| Order No. | Description | Suitable for |
|-----------|---|--------------|
| 8 901 102 | EasyTEMP Software (free of charge at www.julabo.com) | CD |
| 8 901 105 | EasyTEMP Professional Software, incl. USB-Dongle | CD |
| 9 900 110 | USB interface cable 2 m, type A-B | CD |
| 9 900 112 | USB 2.0 Repeater extension cable, length = 5 m | CD |
| 9 900 114 | USB 2.0 Repeater extension cable, length = 10 m | CD |



Calibration and manufacturer's certificates

| Order No. | Description | Suitable for |
|-----------|--|--------------------------|
| 8 902 901 | 1-Point manufacturer's calibration certificate | CD |
| 8 902 903 | 3-Point manufacturer's calibration certificate | CD |
| 8 902 905 | 5-Point manufacturer's calibration certificate | CD |
| 8 903 025 | Manufacturer's 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 |



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 |
| 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 |



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 basic 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).



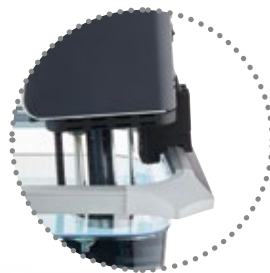
Option I

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 direction of the pump stream in your bath.



CORIO™ C

| | | |
|--|------------------|-----|
| Order No. | 9 011 000 | |
| Model | C | |
| 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 x L x H | |
| | 13.2 x 16 x 36.2 | |

CORIO™ CD Immersion Circulator

for working temperatures from +20 °C to +150 °C

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

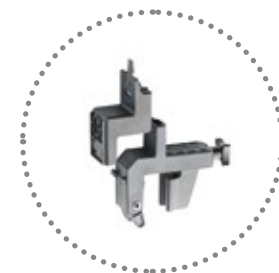
- Precise temperature control
- For internal and external applications (accessories required)
- For bath tanks with a max. filling volume of 50 liters
- Immersion depth: 7.5 ... 16.5 cm
- Bright, white, easy to read display
- Very quiet
- Easy handling
- Pump change-over between internal and external circulation
- USB interface
- 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).



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).

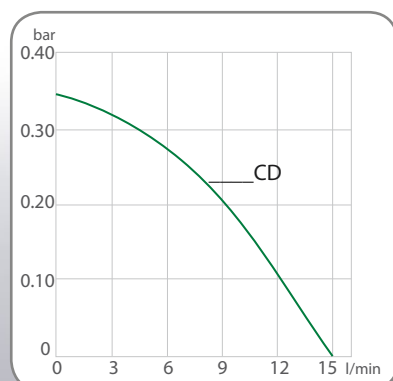


CORIO™ CD

| | | |
|--|------------------|------|
| Order No. | 9 012 000 | |
| Model | CD | |
| 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 x L x H | |
| | 13.2 x 16 x 36.2 | |

Pump capacity

Bath fluid: Water



Applications (CORIO™ C and CD)

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

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

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 new 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 | |
| Model | C-BT5 | |
| 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 x L / D 15 x 15 / 15 | |
| Filling volume liters | 3.5 ... 5 | |
| Dimensions cm | W x L x H 23 x 38 x 38 | |





CORIO™ C-BT9

| | | |
|--|---------------------------|-----|
| Order No. | 9 011 309 | |
| Model | C-BT9 | |
| 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 / | W x L / D | |
| Bath depth cm | 23 x 15 / 15 | |
| Filling volume liters | 6 ... 9 | |
| Dimensions cm | W x L x H 32 x 38 x 38 | |



CORIO™ C-BT19

| | | |
|--|---------------------------|-----|
| Order No. | 9 011 319 | |
| Model | C-BT19 | |
| 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 / | W x L / D | |
| Bath depth cm | 30 x 35 / 15 | |
| Filling volume liters | 14 ... 19 | |
| Dimensions cm | W x L x H 38 x 58 x 38 | |



CORIO™ C-BT27

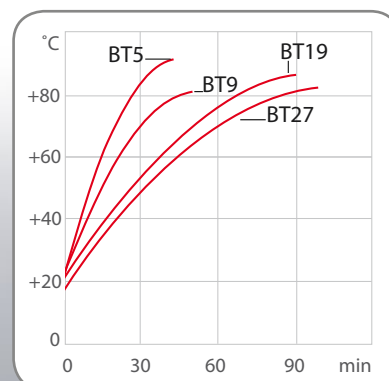
| | | |
|--|---------------------------|-----|
| Order No. | 9 011 327 | |
| Model | C-BT27 | |
| Working temperature range °C ¹⁾ | +20 ... +100 | |
| Temperature stability °C | ± 0.03 | |
| Heating capacity kW | 2 | |
| Circulation capacity | l/min | bar |
| Flow rate / Pressure | 6 | 0.1 |
| Bath opening / | W x L / D | |
| Bath depth cm | 30 x 35 / 20 | |
| Filling volume liters | 20 ... 27 | |
| Dimensions cm | W x L x H 38 x 58 x 43 | |

Applications

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

Heat-up time

Bath fluid: Water



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

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 new 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 | |
| Model | C-B5 | |
| 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 x L / D 15 x 15 / 15 | |
| Filling volume liters | 3.5 ... 5 | |
| Dimensions cm | W x L x H 23 x 38 x 41 | |





CORIO™ C-B13

| | | |
|--|---------------------------|-----|
| Order No. | 9 011 413 | |
| Model | C-B13 | |
| 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 / | W x L / D | |
| Bath depth cm | 30 x 18 / 15 | |
| Filling volume liters | 9 ... 13 | |
| Dimensions cm | W x L x H 38 x 40 x 42 | |



CORIO™ C-B17

| | | |
|--|---------------------------|-----|
| Order No. | 9 011 417 | |
| Model | C-B17 | |
| 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 / | W x L / D | |
| Bath depth cm | 30 x 18 / 20 | |
| Filling volume liters | 13 ... 17 | |
| Dimensions cm | W x L x H 38 x 40 x 47 | |



CORIO™ C-B19

| | | |
|--|---------------------------|-----|
| Order No. | 9 011 419 | |
| Model | C-B19 | |
| 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 / | W x L / D | |
| Bath depth cm | 30 x 35 / 15 | |
| Filling volume liters | 14 ... 19 | |
| Dimensions cm | W x L x H 38 x 58 x 42 | |

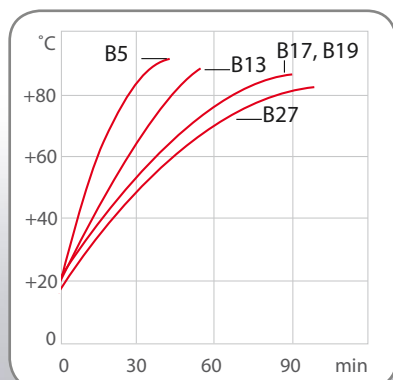


CORIO™ C-B27

| | | |
|--|---------------------------|-----|
| Order No. | 9 011 427 | |
| Model | C-B27 | |
| 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 / | W x L / D | |
| Bath depth cm | 30 x 35 / 20 | |
| Filling volume liters | 17 ... 27 | |
| Dimensions cm | W x L x H 38 x 58 x 47 | |

Heat-up time

Bath fluid: Water



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

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

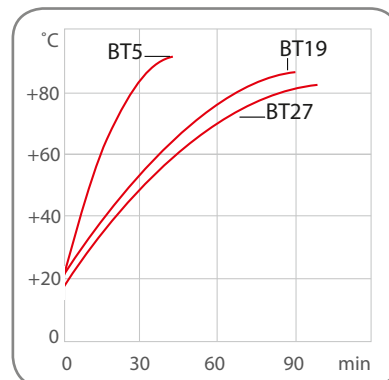
The Open Heating Bath Circulator of the new CORIO™ series feature durable, high-quality transparent bath tanks and pump connections.

- For internal and external applications
- Bright, white, easy to read display
- Very quiet
- Pump change-over between internal and external circulation
- USB connection
- Class III (FL) according to DIN 12876-1

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).

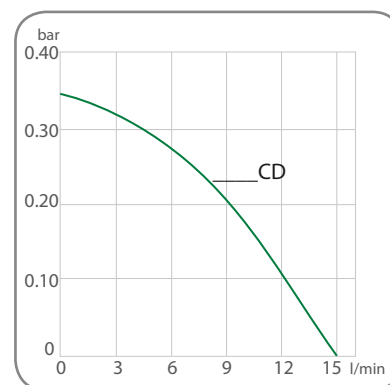
Heat-up time

Bath fluid: Water



Pump capacity

Bath fluid: Water



Applications

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



CORIO™ CD-BT5

| | | |
|--|---------------------------|------|
| Order No. | 9 012 305 | |
| Model | CD-BT5 | |
| 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 / | W x L / D | |
| Bath depth cm | 15 x 15 / 15 | |
| Filling volume liters | 3.5 ... 5 | |
| Dimensions cm | W x L x H 23 x 38 x 38 | |



CORIO™ CD-BT19

| | | |
|--|---------------------------|------|
| Order No. | 9 012 319 | |
| Model | CD-BT19 | |
| 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 / | W x L / D | |
| Bath depth cm | 30 x 35 / 15 | |
| Filling volume liters | 14 ... 19 | |
| Dimensions cm | W x L x H 38 x 58 x 38 | |

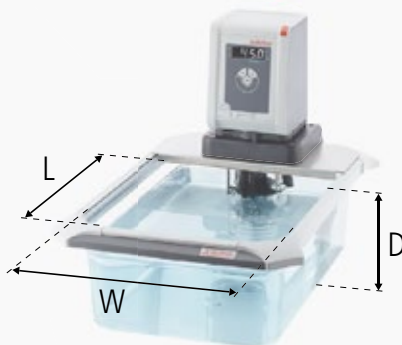


CORIO™ CD-BT27

| | | |
|--|---------------------------|------|
| Order No. | 9 012 327 | |
| Model | CD-BT27 | |
| 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 / | W x L / D | |
| Bath depth cm | 30 x 35 / 20 | |
| Filling volume liters | 20 ... 27 | |
| Dimensions cm | W x L x H 38 x 58 x 43 | |



Bath opening:
W x L / D



Dimensions:
W x L x H



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

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 new 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
- Pump change-over between internal and external circulation
- 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

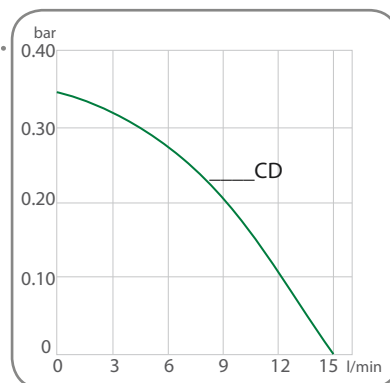
Temperature control of samples, preparation of samples for serology and clinical chemistry, analysis, material testing, and more. External temperature control applications in combination with measuring instruments, measuring cells, photometers, refractometers, polarimeters, and more.



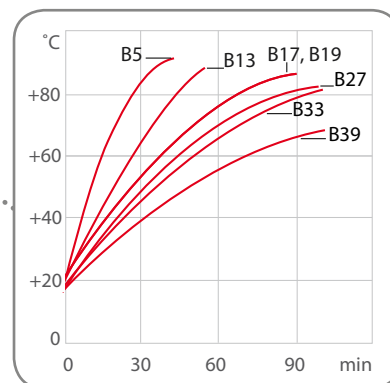
CORIO™ CD-B5

| | | |
|--|---------------------------|------|
| Order No. | 9 012 405 | |
| Model | CD-B5 | |
| 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 x L / D 15 x 15 / 15 | |
| Filling volume liters | 3.5 ... 5 | |
| Dimensions cm | W x L x H 23 x 38 x 41 | |

Pump capacity
Bath fluid: Water



Heat-up time
Bath fluid: Water





CORIO™ CD-B13

Order No. 9 012 413

Model CD-B13

Working temperature range °C¹⁾ +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 x L / D 30 x 18 / 15 |
|------------------------------|---------------------------|

Filling volume liters 9 ... 13

| | |
|---------------|---------------------------|
| Dimensions cm | W x L x H 38 x 40 x 42 |
|---------------|---------------------------|



CORIO™ CD-B17

Order No. 9 012 417

Model CD-B17

Working temperature range °C¹⁾ +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 x L / D 30 x 18 / 20 |
|------------------------------|---------------------------|

Filling volume liters 13 ... 17

| | |
|---------------|---------------------------|
| Dimensions cm | W x L x H 38 x 40 x 47 |
|---------------|---------------------------|



CORIO™ CD-B19

Order No. 9 012 419

Model CD-B19

Working temperature range °C¹⁾ +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 x L / D 30 x 35 / 15 |
|------------------------------|---------------------------|

Filling volume liters 14 ... 19

| | |
|---------------|---------------------------|
| Dimensions cm | W x L x H 38 x 58 x 42 |
|---------------|---------------------------|



CORIO™ CD-B27

Order No. 9 012 427

Model CD-B27

Working temperature range °C¹⁾ +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 x L / D 30 x 35 / 20 |
|------------------------------|---------------------------|

Filling volume liters 17 ... 27

| | |
|---------------|---------------------------|
| Dimensions cm | W x L x H 38 x 58 x 47 |
|---------------|---------------------------|



CORIO™ CD-B33

Order No. 9 012 433

Model CD-B33

Working temperature range °C¹⁾ +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 x L / D 66 x 32 / 15 |
|------------------------------|---------------------------|

Filling volume liters 26 ... 39

| | |
|---------------|---------------------------|
| Dimensions cm | W x L x H 91 x 36 x 43 |
|---------------|---------------------------|



CORIO™ CD-B39

Order No. 9 012 439

Model CD-B39

Working temperature range °C¹⁾ +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 x L / D 33 x 30 / 30 |
|------------------------------|---------------------------|

Filling volume liters 35 ... 41

| | |
|---------------|---------------------------|
| Dimensions cm | W x L x H 54 x 34 x 57 |
|---------------|---------------------------|

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

Heating Circulators

CORIO™ CD Heating Circulators

for internal and external temperature applications with stainless steel baths
for working temperatures from +20 °C to +150 °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
- Pump change-over between internal and external circulation
- USB connection
- High-quality bath tanks made of stainless steel with bath lid and drain tap
- Integrated pump connection M16x1
- 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 and more, internal temperature applications of samples and small objects.



CORIO™ CD-BC4

| | | |
|--|---------------------------|------|
| Order No. | 9 012 504 | |
| Model | CD-BC4 | |
| 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 x L / D 13 x 15 / 15 | |
| Filling volume liters | 3 ... 4.5 | |
| Dimensions cm | W x L x H 23 x 41 x 42 | |



Optional

Bath cover with built-in heat exchanger.



CORIO™ CD-BC6

Order No. 9 012 506

Model CD-BC6

Working temperature range °C¹⁾ +20 ... +150

Temperature stability °C ± 0.03

Heating capacity kW 2

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

Bath opening /
Bath depth cm W x L / D
13 x 15 / 20

Filling volume liters 4.5 ... 6

Dimensions cm W x L x H
24 x 44 x 47

CORIO™ CD-BC12

Order No. 9 012 512

Model CD-BC12

Working temperature range °C¹⁾ +20 ... +150

Temperature stability °C ± 0.03

Heating capacity kW 2

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

Bath opening /
Bath depth cm W x L / D
22 x 15 / 20

Filling volume liters 8.5 ... 12

Dimensions cm W x L x H
33 x 49 x 47

CORIO™ CD-BC26

Order No. 9 012 526

Model CD-BC26

Working temperature range °C¹⁾ +20 ... +150

Temperature stability °C ± 0.03

Heating capacity kW 2

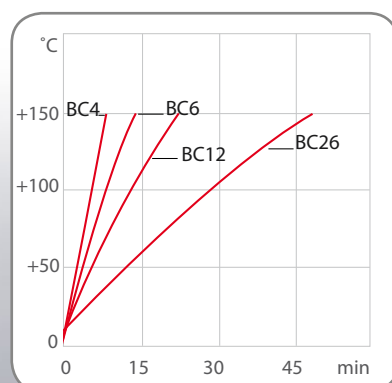
Pump capacity
Flow rate / Pressure 15 l/min 0.35 bar

Bath opening /
Bath depth cm W x L / D
26 x 35 / 20

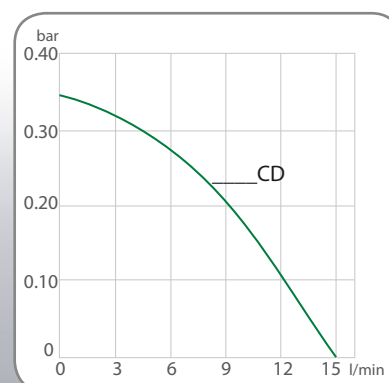
Filling volume liters 19 ... 26

Dimensions cm W x L x H
39 x 62 x 48

Heat-up time
Bath fluid: Thermal



Pump capacity
Bath fluid: Water



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

JULABO Thermal Bath Fluids

JULABO Thermal bath fluids have been carefully chosen after 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, oxidation and heat transfer characteristics of the Thermal fluids are specifically selected for use with JULABO CORIO™ CD temperature control instruments.

Advantages

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



Thermal G

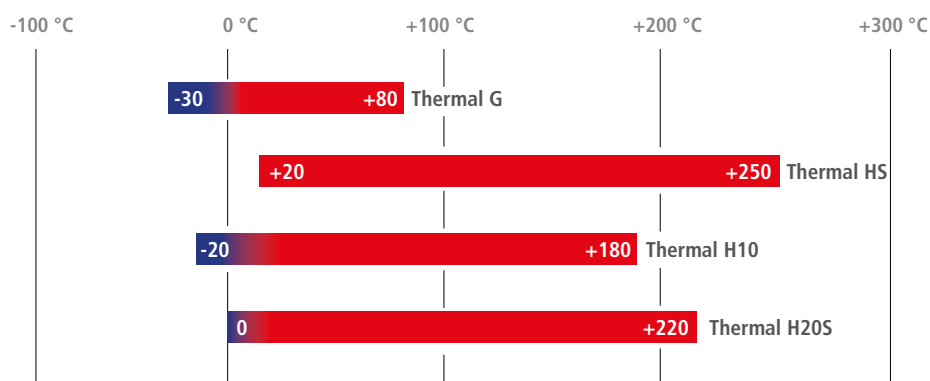
| | |
|---|----------------|
| Order No. 5 liters | 8 940 125 |
| Order No. 10 liters | 8 940 124 |
| Working temperature range °C | -30 ... +80 |
| Flash point °C | not applicable |
| Fire point °C | not applicable |
| Viscosity, (kinematic at +20 °C) mm ² /s | 4.07 |
| Density (at +20 °C) g/cm ³ | 1.08 |
| Pour point °C | -70 |
| Boiling point °C | +108 |
| Ignition temperature °C | +430 |
| 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 | +20 ... +250 |
| Flash point °C | +270 |
| Fire point °C | +360 |
| Viscosity, (kinematic at +20 °C) mm ² /s | 55 |
| Density (at +20 °C) g/cm ³ | 0.96 |
| Pour point °C | <-60 |
| Boiling point °C | +246 |
| 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 | -20 ... +180 |
| Flash point °C | >+170 |
| Fire point °C | +220 |
| Viscosity, (kinematic at +20 °C) mm ² /s | 10.8 |
| Density (at +20 °C) g/cm ³ | 0.94 |
| 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 | +230 |
| Fire point °C | +264 |
| Viscosity, (kinematic at +20 °C) mm ² /s | 22.3 |
| Density (at +20 °C) g/cm ³ | 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 high dielectric strength. 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.



Heating Circulators Accessories



Aqua Stabil Water protective media to prevent formation of algae and bacteria and Descaling Agent

| Order No. | Description | Suitable for |
|-----------|-------------------------------------|--------------|
| 8 940 006 | Aqua Stabil, 6 bottles 100 ml each | C, CD |
| 8 940 012 | Aqua Stabil, 12 bottles 100 ml each | C, CD |
| 9 940 200 | Descaling Agent 1 Liter | C, CD |



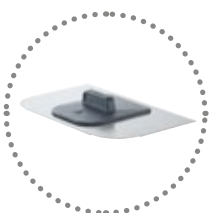
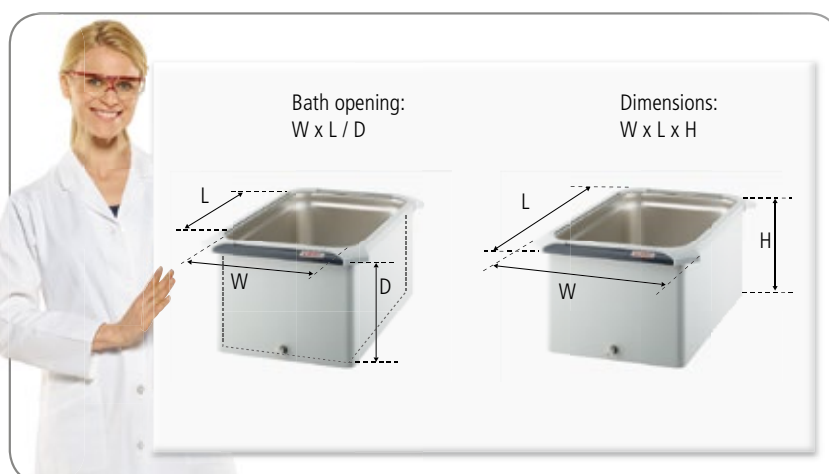
Transparent bath tanks up to +100 °C

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



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

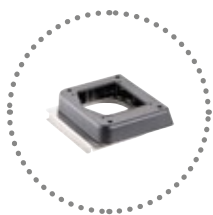
| Order No. | Description | Inner dimensions cm | Outer dimensions cm | Suitable for |
|-----------|---------------|---------------------|---------------------|--------------|
| 9 903 405 | Bath tank B5 | 15 x 30 / 15 | 22 x 37 x 20 | C, CD |
| 9 903 413 | Bath tank B13 | 30 x 32 / 15 | 37 x 40 x 20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



Bath covers

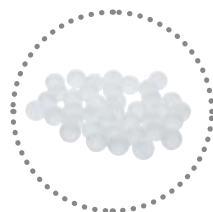
| Order No. | Description | Suitable for |
|-----------|--|----------------------|
| 9 970 296 | Flat bath cover | B5, BT5 |
| 9 970 290 | Flat bath cover | B13, B17 |
| 9 970 291 | Flat bath cover | B19, B27, BT19, BT27 |
| 9 970 292 | Flat bath cover | B33 |
| 9 970 293 | Flat bath cover | B39 |
|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

Assembly frames



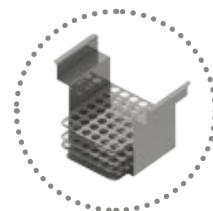
| Order No. | Description | Suitable for |
|-----------|---|---------------------------|
| 9 970 229 | Stainless steel bridge including assembly frame | C-BT5, C-B5 |
| 9 970 228 | Stainless steel bridge including assembly frame | C-BT19/27, C-B13/17/19/27 |

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 |

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 x 17 mm dia. | B5, BT5 |
| 9 970 321 | Test tube rack for 42 tubes 75 x 12/13 mm dia. | B5, BT5 |
| 9 970 322 | Test tube rack for 42 tubes 40 x 10/11 mm dia. | B5, BT5 |
| 9 970 323 | Test tube rack for 10 Falcon tubes 50 ml | B5, BT5 |

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



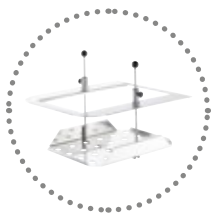
| Order No. | Description | Suitable for |
|-----------|---|-------------------------------------|
| 9 970 300 | Test tube rack for 60 tubes 100 x 16/17 mm dia. | B13, B17, B19, B27, B33, BT19, BT27 |
| 9 970 301 | Test tube rack for 90 tubes 75 x 12/13 mm dia. | B13, B17, B19, B27, B33, BT19, BT27 |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

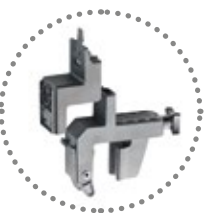
| Order No. | BT5 | BT9 | BT19 | BT27 | B5 | B13 | B17 | B19 | B27 | B33 | B39 |
|-----------|-----|-----|------|------|----|-----|-----|-----|-----|-----|-----|
| 9 970 320 | 1 | - | - | - | 1 | - | - | - | - | - | - |
| 9 970 321 | 1 | - | - | - | 1 | - | - | - | - | - | - |
| 9 970 322 | 1 | - | - | - | 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 |
| 9 970 503 | Immersion-height adjustable platform | B13, B17 |
| 9 970 502 | Immersion-height adjustable platform | B19, B27 |



Universal bath attachment clamp

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



Pump set for external temperature applications

| Order No. | Description | Suitable for |
|-----------|----------------------------------|--------------|
| 9 970 140 | Pump set (Pump connectors M16x1) | CD |



Stand attachment for laboratory stands

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



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 |



CR® tubing (-30 ... +120 °C)

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



Viton® tubing (-35 ... +200 °C)

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



Tubing insulation (-50...+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 ... +200 °C

| Order No. | Description | Suitable for |
|-----------|--|--------------|
| 8 930 220 | 0.5 m Metal tubing, 2 fittings M16x1 female | CD |
| 8 930 221 | 1.0 m Metal tubing, 2 fittings M16x1 female | CD |
| 8 930 222 | 1.5 m Metallschlauch, 2 Anschlüsse M16x1 innen | CD |
| 8 930 223 | 3.0 m Metallschlauch, 2 Anschlüsse M16x1 innen | CD |

Adapters and connectors



| Order No. | Description | Suitable for |
|-----------|---|--------------|
| 8 970 446 | 2 Barbed fittings for tubing 8 mm inner dia. | CD |
| 8 970 447 | 2 Barbed fittings for tubing 10 mm inner dia. | CD |
| 8 970 445 | 2 Barbed fittings for tubing 12 mm inner dia. | CD |
| 8 970 443 | 1 Adapter M16x1 male to M16x1 male | CD |
| 8 970 490 | 2 Collar nuts M16x1 female | CD |
| 8 970 442 | 2 Elbow fittings 90°, M16x1 female/male | CD |
| 8 890 004 | 2 Adapters M16x1 female to NPT 1/4" male | CD |
| 8 890 005 | 2 Adapters M16x1 female to NPT 1/4" female | CD |
| 8 890 006 | 2 Adapters M16x1 female to NPT 3/8" male | CD |
| 8 890 007 | 2 Adapters M16x1 female to NPT 3/8" female | CD |
| 8 890 008 | 2 Adapters M16x1 female to NPT 1/2" male | CD |
| 8 890 009 | 2 Adapters M16x1 female to NPT 1/2" female | CD |
| 8 890 010 | 2 Adapters M16x1 male to NPT 1/4" female | CD |
| 8 891 008 | 1 Adapter M16x1 male to BSP 1/2" female | CD |
| 8 891 009 | 1 Adapter M16x1 male to BSP 3/4" female | CD |
| 8 890 011 | 2 Adapters M16x1 female to tube 1/4" male | CD |
| 8 890 012 | 2 Adapters M16x1 female to tube 3/8" male | CD |
| 8 890 013 | 2 Adapters M16x1 female to tube 1/2" male | CD |
| 8 890 024 | 2 Adapters M16x1 female to M16x1 female | CD |

Shut-off valves for loop circuit



| Order No. | Description | Suitable for |
|-----------|--|--------------|
| 8 970 457 | Shut-off valve (-30 °C ... +200 °C), M16x1 | CD |
| 8 970 456 | Shut-off valve (-10 °C ... +100 °C), M16x1 | CD |

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 M16x1 female to 2 x M16x1 male | CD |

EasyTEMP Software for instrument control, data recording and visualization



| Order No. | Description | Suitable for |
|-----------|---|--------------|
| 8 901 102 | EasyTEMP Software (free of charge at www.julabo.com) | CD |
| 8 901 105 | EasyTEMP Professional Software, incl. USB-Dongle | CD |
| 9 900 110 | USB interface cable 2 m, type A-B | CD |
| 9 900 112 | USB 2.0 Repeater extension cable, length = 5 m | CD |
| 9 900 114 | USB 2.0 Repeater extension cable, length = 10 m | CD |



Calibration and manufacturer's certificates

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



IQ/OQ Documentation for Equipment Qualification

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



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 |
| 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 |

The **JULABO** advantages at a glance.

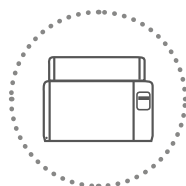
JULABO temperature control – high-precision and speed

JULABO products include high-quality temperature control solutions to cover the temperature range from $-95\text{ }^{\circ}\text{C}$ to $+400\text{ }^{\circ}\text{C}$.



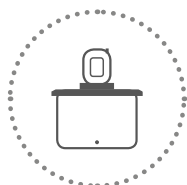
Refrigerated Circulators

The JULABO refrigerated circulators are suitable for internal and external applications and can be used within the temperature range of $-95\text{ }^{\circ}\text{C}$ to $+200\text{ }^{\circ}\text{C}$.



Water Baths and Shaking Water Baths

Water baths and shaking water baths from JULABO can be used for a variety of applications in the temperature range from $+20\text{ }^{\circ}\text{C}$ to $+99.9\text{ }^{\circ}\text{C}$.



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 from $+20\text{ }^{\circ}\text{C}$ to $+300\text{ }^{\circ}\text{C}$.



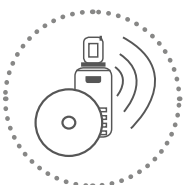
Additional products

In addition, the JULABO product portfolio has equipment for special applications such as Calibration Baths, Visco Baths, Forcing Test Refrigerated-Heating Circulating Bath, Immersion Coolers, Laboratory 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 $-92\text{ }^{\circ}\text{C}$ to $+400\text{ }^{\circ}\text{C}$. The new PRESTO® line offers unique high performance specifications to meet these requirements.



Wireless Communication & Software Solutions

JULABO facilitates the automation of applications. The temperature control units 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 range of $-25\text{ }^{\circ}\text{C}$ to $+130\text{ }^{\circ}\text{C}$.



Accessories

The extensive range of accessories for all our devices allows the flexible use of JULABO products in research and industry.

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 their JULABO unit.

Individual requirements – individual products

The wide range of JULABO offers a solution for almost any application. However, if a specific application needs more than a standard product is able to offer, the JULABO specialists will work out an individual solution with you.



JULABO. Quality.

Highest standards of quality for 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 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.com.

Technical Specifications

CORIO™

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

| Cooling capacity (kW) at bath temperature in °C (Medium: Ethanol) | | | | | Type ⊕ Pressure pump ⊖ Circulation pump | Pump | | Pump connections male | Refrigerant | Filling volume liters |
|--|------|------|------|------|---|-----------------|--------------------|------------------------------|-------------|------------------------------|
| 0 | -10 | -20 | -30 | -40 | | Pressure bar | Flow rate l/min | | | |
| 0.17 | 0.13 | 0.06 | - | - | ⊕ | 0.35 | 15 | M16x1 | R134a | 3 ... 4 |
| 0.16 | 0.12 | 0.06 | - | - | ⊕ | 0.35 | 15 | M16x1 | R134a | 3 ... 4 |
| 0.28 | 0.2 | 0.11 | - | - | ⊕ | 0.35 | 15 | M16x1 | R134a | 3 ... 4 |
| 0.53 | 0.35 | 0.22 | 0.1 | - | ⊕ | 0.35 | 15 | M16x1 | R404a | 5 ... 7.5 |
| 0.5 | 0.35 | 0.2 | 0.07 | 0.01 | ⊕ | 0.35 | 15 | M16x1 | R452a | 8 ... 10 |
| 0.8 | 0.55 | 0.35 | 0.15 | 0.02 | ⊕ | 0.35 | 15 | M16x1 | R452a | 21 ... 30 |
| 0.9 | 0.73 | 0.5 | 0.25 | 0.1 | ⊕ | 0.35 | 15 | M16x1 | R452a | 5 ... 7.5 |
| 0.9 | 0.63 | 0.35 | 0.13 | - | ⊕ | 0.35 | 15 | M16x1 | R452a | 42 ... 56 |
| - | - | - | - | - | ⊖ | 0.1 | 6 | - | - | - |
| - | - | - | - | - | ⊕ | 0.35 | 15 | - | - | - |
| - | - | - | - | - | ⊖ | 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 | M16x1 | - | 3.5 ... 5 |
| - | - | - | - | - | ⊕ | 0.35 | 15 | M16x1 | - | 14 ... 19 |
| - | - | - | - | - | ⊕ | 0.35 | 15 | M16x1 | - | 20 ... 27 |
| - | - | - | - | - | ⊕ | 0.35 | 15 | M16x1 | - | 3.5 ... 5 |
| - | - | - | - | - | ⊕ | 0.35 | 15 | M16x1 | - | 9 ... 13 |
| - | - | - | - | - | ⊕ | 0.35 | 15 | M16x1 | - | 13 ... 17 |
| - | - | - | - | - | ⊕ | 0.35 | 15 | M16x1 | - | 14 ... 19 |
| - | - | - | - | - | ⊕ | 0.35 | 15 | M16x1 | - | 17 ... 27 |
| - | - | - | - | - | ⊕ | 0.35 | 15 | M16x1 | - | 26 ... 39 |
| - | - | - | - | - | ⊕ | 0.35 | 15 | M16x1 | - | 35 ... 41 |
| - | - | - | - | - | ⊕ | 0.35 | 15 | M16x1 | - | 3 ... 4.5 |
| - | - | - | - | - | ⊕ | 0.35 | 15 | M16x1 | - | 4.5 ... 6 |
| - | - | - | - | - | ⊕ | 0.35 | 15 | M16x1 | - | 8.5 ... 12 |
| - | - | - | - | - | ⊕ | 0.35 | 15 | M16x1 | - | 19 ... 26 |

| Classification acc. to DIN 12876-1 | Power requirement | USB interface | Permissible ambient temperature | Usable bath opening W x L / D | Dimensions W x L x H | Weight net | Model |
|------------------------------------|-------------------|---------------|---------------------------------|-------------------------------|----------------------|------------|-----------------|
| | V / Hz / A | | | | | | |
| 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 | 5 ... 40 | 13 x 15 / 15 | 44 x 41 x 44 | 25 | CD-201F |
| III (FL) | 230/50/12 | yes | 5 ... 40 | 13 x 15 / 15 | 24 x 42 x 66 | 28 | CD-300F |
| III (FL) | 230/50/14 | yes | 5 ... 40 | 22 x 15 / 15 | 33 x 47 x 69 | 36 | CD-600F |
| III (FL) | 230/50/14 | yes | 5 ... 40 | 22 x 15 / 20 | 36 x 46 x 74 | 38.5 | CD-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 | 5 ... 40 | 22 x 15 / 15 | 42 x 49 x 70 | 51.5 | CD-1000F |
| III (FL) | 230/50/14 | yes | 5 ... 40 | 35 x 41 / 30 | 45 x 64 x 95 | 74 | CD-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 |
| 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 | 5 ... 40 | 13 x 15 / 20 | 24 x 44 x 47 | 10 | CD-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 | 5 ... 40 | 26 x 35 / 20 | 39 x 62 x 48 | 19 | CD-BC26 |

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.

Voltage Options

CORIO™

| 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 | 115V 60 Hz | 100 V 50 - 60 Hz | 200 V 50 - 60 Hz |
| CD-200F | 9 012 701 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-201F | 9 012 702 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-300F | 9 012 703 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-600F | 9 012 704 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-601F | 9 012 705 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-900F | 9 012 706 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | - | 1.5 |
| CD-1000F | 9 012 707 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | - | 1.5 |
| CD-1001F | 9 012 708 | 2.0 | 1.6 - 2.0 | - | - | - | - | 1.5 |
| C | 9 011 000 | - | - | 1.6 - 2.0 | 0.8 - 1.0 | - | - | - |
| CD | 9 012 000 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| C-BT5 | 9 011 305 | - | - | 1.6 - 2.0 | 0.8 - 1.0 | - | - | - |
| C-BT9 | 9 011 309 | - | - | 1.6 - 2.0 | 0.8 - 1.0 | - | - | - |
| C-BT19 | 9 011 319 | - | - | 1.6 - 2.0 | 0.8 - 1.0 | - | - | - |
| C-BT27 | 9 011 327 | - | - | 1.6 - 2.0 | 0.8 - 1.0 | - | - | - |
| C-B5 | 9 011 405 | - | - | 1.6 - 2.0 | 0.8 - 1.0 | - | - | - |
| C-B13 | 9 011 413 | - | - | 1.6 - 2.0 | 0.8 - 1.0 | - | - | - |
| C-B17 | 9 011 417 | - | - | 1.6 - 2.0 | 0.8 - 1.0 | - | - | - |
| C-B19 | 9 011 419 | - | - | 1.6 - 2.0 | 0.8 - 1.0 | - | - | - |
| C-B27 | 9 011 427 | - | - | 1.6 - 2.0 | 0.8 - 1.0 | - | - | - |
| CD-BT5 | 9 012 305 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-BT19 | 9 012 319 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-BT27 | 9 012 327 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-B5 | 9 012 405 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-B13 | 9 012 413 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-B17 | 9 012 417 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-B19 | 9 012 419 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-B27 | 9 012 427 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-B33 | 9 012 433 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-B39 | 9 012 439 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-BC4 | 9 012 504 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-BC6 | 9 012 506 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-BC12 | 9 012 512 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |
| CD-BC26 | 9 012 526 | 2.0 | 1.6 - 2.0 | - | - | 1.0 | 0.8 | - |

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