

# 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

|  |                               |     |
|--|-------------------------------|-----|
| <b>Order No.</b>                           | <b>9 011 000</b>              |     |
| Working temperature range °C <sup>1)</sup> | +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<br>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 <sup>1)</sup> +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 <sup>1)</sup> +20 ... +200

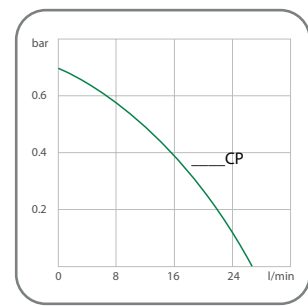
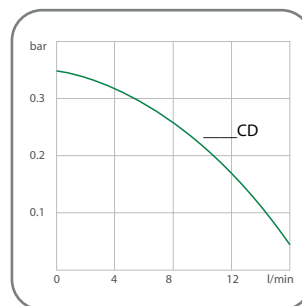
Temperature stability °C ± 0.02

Heating capacity kW 2

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

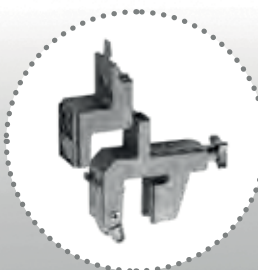
Dimensions cm W × L × H  
13.2 × 16 × 36.2

### 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).

<sup>1)</sup> 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 CORIO series feature durable, high-quality transparent bath tanks.

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

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



#### Clever.

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



### CORIO™ C-BT5

**Order No.** 9 011 305

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

Temperature stability °C ± 0.03

Heating capacity kW 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 <sup>1)</sup> | +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<br>23 × 15 / 15 |     |
| Filling volume liters                      | 6 ... 9                   |     |
| Dimensions cm                              | W × L × H<br>32 × 38 × 38 |     |



## CORIO™ C-BT19

|  |                           |     |
|--|---------------------------|-----|
| Order No.                                  | 9 011 319                 |     |
| Working temperature range °C <sup>1)</sup> | +20 ... +100              |     |
| Temperature stability °C                   | ± 0.03                    |     |
| Heating capacity kW                        | 2                         |     |
| Circulation capacity                       | l/min                     | bar |
| Flow rate / Pressure                       | 6                         | 0.1 |
| Bath opening / Bath depth cm               | W × L / D<br>30 × 35 / 15 |     |
| Filling volume liters                      | 14 ... 19                 |     |
| Dimensions cm                              | W × L × H<br>38 × 58 × 38 |     |

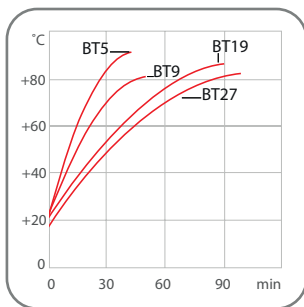


## CORIO™ C-BT27

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

<sup>1)</sup> 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 CORIO series feature high-quality bath tanks made of stainless steel.

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

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

#### Applications

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



### CORIO™ C-B5

**Order No.** 9 011 405

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

Temperature stability °C ± 0.03

Heating capacity kW 2

Circulation capacity  
Flow rate / Pressure l/min bar  
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

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                             | <b>9 011 413</b> |              |  |
| Working temperature range °C <sup>1)</sup>   | +20 ... +100     |              |  |
| Temperature stability °C                     | ± 0.03           |              |  |
| Heating capacity kW                          | 2                |              |  |
| Circulation capacity<br>Flow rate / Pressure | l/min            | bar          |  |
|  | 6                | 0.1          |  |
| Bath opening /<br>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

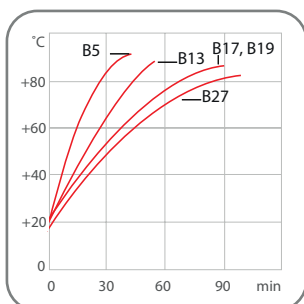
|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                             | <b>9 011 417</b> |              |  |
| Working temperature range °C <sup>1)</sup>   | +20 ... +100     |              |  |
| Temperature stability °C                     | ± 0.03           |              |  |
| Heating capacity kW                          | 2                |              |  |
| Circulation capacity<br>Flow rate / Pressure | l/min            | bar          |  |
|  | 6                | 0.1          |  |
| Bath opening /<br>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

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                             | <b>9 011 419</b> |              |  |
| Working temperature range °C <sup>1)</sup>   | +20 ... +100     |              |  |
| Temperature stability °C                     | ± 0.03           |              |  |
| Heating capacity kW                          | 2                |              |  |
| Circulation capacity<br>Flow rate / Pressure | l/min            | bar          |  |
|  | 6                | 0.1          |  |
| Bath opening /<br>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

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

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

## Heating Circulators

### CORIO CD Open Heating Bath Circulators

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

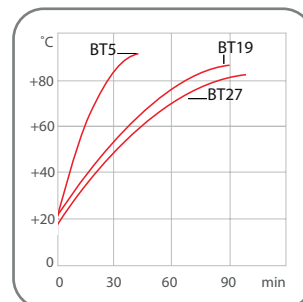
The Open Heating Bath Circulator of the CORIO series feature durable, high-quality transparent bath tanks and pump connections.

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

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

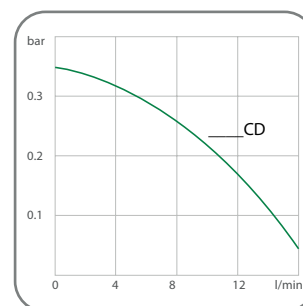
#### Heat-up time

Bath fluid: Water



#### 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 <sup>1)</sup> | +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 <sup>1)</sup> | +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 |  |

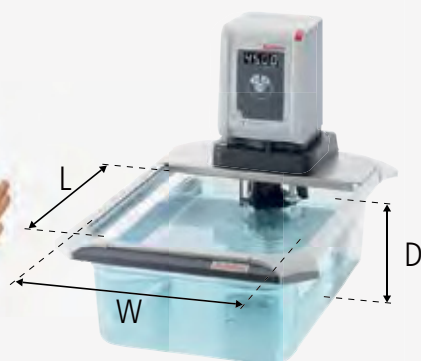


## CORIO™ CD-BT27

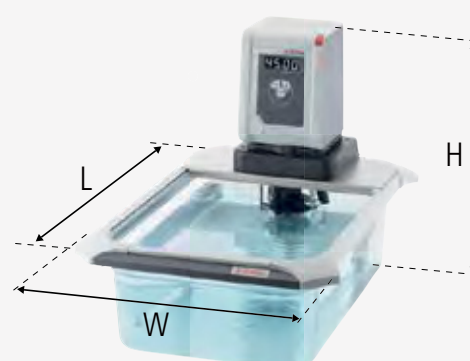
|  |              |              |  |
|--|--------------|--------------|--|
| Order No.                                  | 9 012 327    |              |  |
| Working temperature range °C <sup>1)</sup> | +20 ... +100 |              |  |
| Temperature stability °C                   | ± 0.03       |              |  |
| 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



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

## Heating Circulators

### CORIO CD Open Heating Bath Circulators

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

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

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

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

#### Applications

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



### CORIO™ CD-B5

**Order No.** 9 012 405

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

Temperature stability °C ± 0.03

Heating capacity kW 2

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

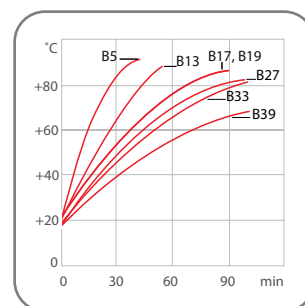
|                              |              |
|------------------------------|--------------|
| Bath opening / Bath depth cm | W × L / D    |
|                              | 15 × 15 / 15 |

Filling volume liters 3.5 ... 5

|               |              |
|---------------|--------------|
| Dimensions cm | W × L × H    |
|               | 23 × 38 × 41 |

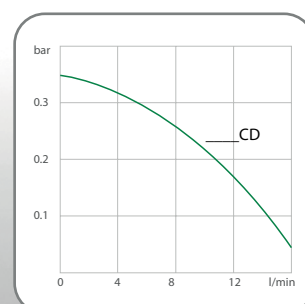
#### Heat-up time

Bath fluid: Water



#### Pump capacity

Bath fluid: Water



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





## CORIO™ CD-B13

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                           | <b>9 012 413</b> |              |  |
| Working temperature range °C <sup>1)</sup> | +20 ... +150     |              |  |
| Temperature stability °C                   | ± 0.03           |              |  |
| Heating capacity kW                        | 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

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                           | <b>9 012 417</b> |              |  |
| Working temperature range °C <sup>1)</sup> | +20 ... +150     |              |  |
| Temperature stability °C                   | ± 0.03           |              |  |
| Heating capacity kW                        | 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

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                           | <b>9 012 419</b> |              |  |
| Working temperature range °C <sup>1)</sup> | +20 ... +150     |              |  |
| Temperature stability °C                   | ± 0.03           |              |  |
| Heating capacity kW                        | 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

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                           | <b>9 012 427</b> |              |  |
| Working temperature range °C <sup>1)</sup> | +20 ... +150     |              |  |
| Temperature stability °C                   | ± 0.03           |              |  |
| Heating capacity kW                        | 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

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                           | <b>9 012 433</b> |              |  |
| Working temperature range °C <sup>1)</sup> | +20 ... +150     |              |  |
| Temperature stability °C                   | ± 0.03           |              |  |
| Heating capacity kW                        | 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        | 91 × 36 × 43 |  |



## CORIO™ CD-B39

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                           | <b>9 012 439</b> |              |  |
| Working temperature range °C <sup>1)</sup> | +20 ... +150     |              |  |
| Temperature stability °C                   | ± 0.03           |              |  |
| Heating capacity kW                        | 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 |  |

## Heating Circulators

### CORIO CD and CP Heating Circulators

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

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

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

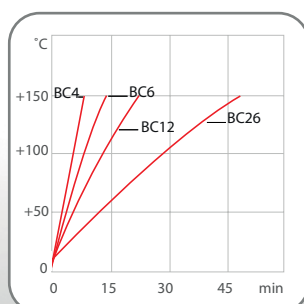
To adapt the CORIO Heating Circulator to your individual application we offer a comprehensive range of accessories (racks, bath lids, tubing, adapters, and more).

#### Applications

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

#### Heat-up time

Bath fluid: Thermal



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



### CORIO™ CD-BC4

**Order No.** 9 012 504

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

Temperature stability °C ± 0.03

Heating capacity kW 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 <sup>1)</sup> +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

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                           | <b>9 012 506</b> |              |  |
| Working temperature range °C <sup>1)</sup> | +20 ... +150     |              |  |
| Temperature stability °C                   | ± 0.03           |              |  |
| Heating capacity kW                        | 2                |              |  |
| Pump capacity<br>Flow rate / Pressure      | l/min            | bar          |  |
|  | 15               | 0.35         |  |
| Bath opening /<br>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

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                           | <b>9 012 512</b> |              |  |
| Working temperature range °C <sup>1)</sup> | +20 ... +150     |              |  |
| Temperature stability °C                   | ± 0.03           |              |  |
| Heating capacity kW                        | 2                |              |  |
| Pump capacity<br>Flow rate / Pressure      | l/min            | bar          |  |
|  | 15               | 0.35         |  |
| Bath opening /<br>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

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                           | <b>9 012 526</b> |              |  |
| Working temperature range °C <sup>1)</sup> | +20 ... +150     |              |  |
| Temperature stability °C                   | ± 0.03           |              |  |
| Heating capacity kW                        | 2                |              |  |
| Pump capacity<br>Flow rate / Pressure      | l/min            | bar          |  |
|  | 15               | 0.35         |  |
| Bath opening /<br>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

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                           | <b>9 013 506</b> |              |  |
| Working temperature range °C <sup>1)</sup> | +20 ... +200     |              |  |
| Temperature stability °C                   | ± 0.02           |              |  |
| Heating capacity kW                        | 2                |              |  |
| Pump capacity<br>Flow rate / Pressure      | l/min            | bar          |  |
|  | 8 ... 27         | 0.1 ... 0.7  |  |
| Bath opening /<br>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

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                           | <b>9 013 512</b> |              |  |
| Working temperature range °C <sup>1)</sup> | +20 ... +200     |              |  |
| Temperature stability °C                   | ± 0.02           |              |  |
| Heating capacity kW                        | 2                |              |  |
| Pump capacity<br>Flow rate / Pressure      | l/min            | bar          |  |
|  | 8 ... 27         | 0.1 ... 0.7  |  |
| Bath opening /<br>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

|  |                  |              |  |
|--|------------------|--------------|--|
| <b>Order No.</b>                           | <b>9 013 526</b> |              |  |
| Working temperature range °C <sup>1)</sup> | +20 ... +200     |              |  |
| Temperature stability °C                   | ± 0.02           |              |  |
| Heating capacity kW                        | 2                |              |  |
| Pump capacity<br>Flow rate / Pressure      | l/min            | bar          |  |
|  | 8 ... 27         | 0.1 ... 0.7  |  |
| Bath opening /<br>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) mm<sup>2</sup>/s 4.13 mPas

Density (at +20 °C) g/cm<sup>3</sup> 1.0681 g/cm<sup>3</sup>

Pour point °C -44

Boiling point °C +109

Ignition temperature °C +410

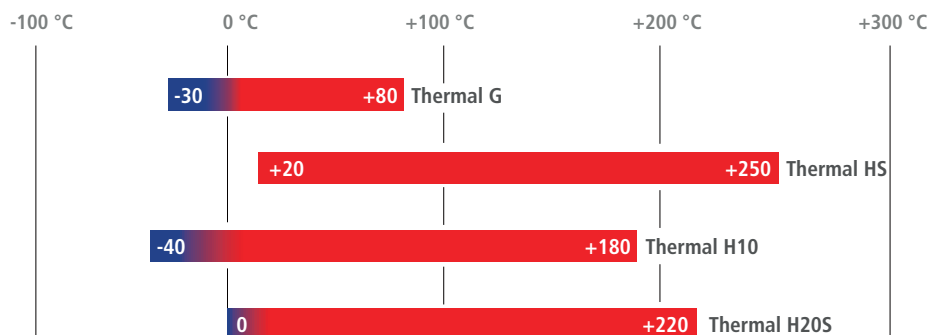
Color light yellow



#### 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) mm <sup>2</sup> /s | 50           |
| Density (at +20 °C) g/cm <sup>3</sup>               | 0.97         |
| 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) mm <sup>2</sup> /s | 10           |
| Density (at +20 °C) g/cm <sup>3</sup>               | 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) mm <sup>2</sup> /s | 20          |
| Density (at +20 °C) g/cm <sup>3</sup>               | 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.

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

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



## Heating Circulators Accessories



### 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        |



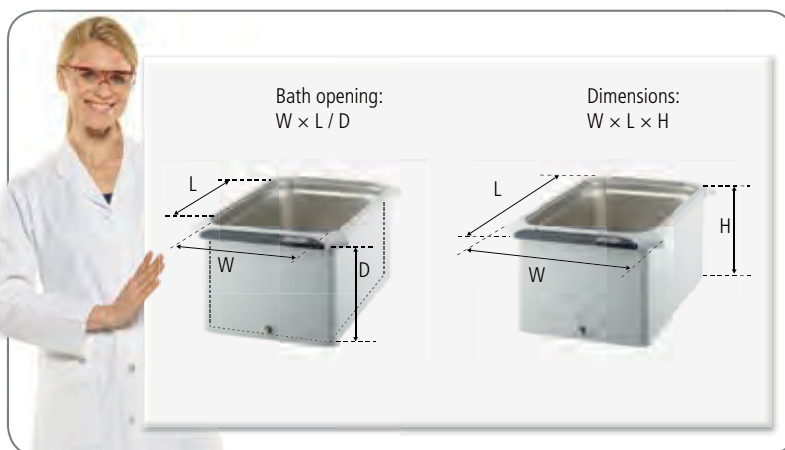
### Transparent bath tanks up to +100 °C

| 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

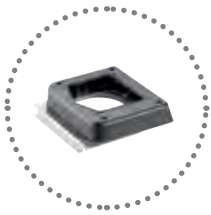
| Order No. | Description   | Inner dimensions cm | Outer dimensions cm | Suitable for |
|-----------|---------------|---------------------|---------------------|--------------|
| 9 903 405 | Bath tank B5  | 15 × 30/15          | 22 × 37 × 20        | C, CD        |
| 9 903 413 | Bath tank B13 | 30 × 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 |
| 9 970 257 | Lift-up gable bath cover made of stainless steel | B33                  |





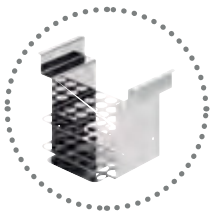
## Assembly frames/extendable bridge

| 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

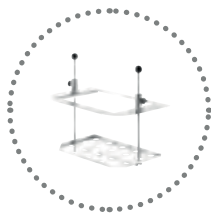
| Order No. | Description                                     | Suitable for                        |
|-----------|---|-------------------------------------|
| 9 970 300 | Test tube rack for 60 tubes 100 × 16/17 mm dia. | B13, B17, B19, B27, B33, BT19, BT27 |
| 9 970 301 | Test tube rack for 90 tubes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

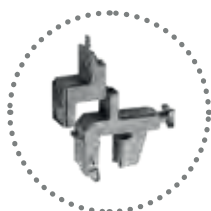
| Order No. | BT5 | BT9 | BT19 | BT27 | B5 | B13 | B17 | B19 | B27 | B33 | B39 |
|-----------|-----|-----|------|------|----|-----|-----|-----|-----|-----|-----|
| 9 970 320 | 1   | -   | -    | -    | 1  | -   | -   | -   | -   | -   | -   |
| 9 970 321 | 1   | -   | -    | -    | 1  | -   | -   | -   | -   | -   | -   |
| 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   | -   |

## Heating Circulators Accessories



### Immersion-height adjustable platforms

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



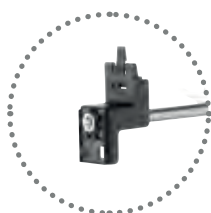
### Universal bath attachment clamp

| Order No. | Description  | Suitable for |
|-----------|--|--------------|
| 9 970 420 | Bath attachment clamp for wall thickness up to 30 mm | 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<br>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<br>C-B5/13/17/19/27, CD, CP |



### Lockable bath cover

| Order No. | Description         | 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       |

## Heating Circulators Accessories



### Adapters and connectors

| Order No. | Description   | Suitable for |
|-----------|---|--------------|
| 8 970 446 | 2 Barbed fittings for tubing 8 mm inner dia.                                | CD, CP       |
| 8 970 447 | 2 Barbed fittings for tubing 10 mm inner dia.                               | CD, CP       |
| 8 970 445 | 2 Barbed fittings for tubing 12 mm inner dia.                               | CD, CP       |
| 8 970 443 | 1 Adapter M16×1 male to M16×1 male  | CD, CP       |
| 8 970 490 | 2 Collar nuts M16×1 female  | CD, CP       |
| 8 970 442 | 2 Elbow fittings 90°, M16×1 female/male                                     | CD, CP       |
| 8 970 448 | 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 (free of charge at <a href="http://www.julabo.com">www.julabo.com</a> ) | CD, CP       |
| 8 901 105 | EasyTEMP Professional Software, incl. USB-Dongle  | CD, CP       |
| 9 900 110 | USB interface cable 2 m, type A-B   | CD, CP       |
| 9 900 112 | USB 2.0 Repeater extension cable, length = 5 m  | CD, CP       |
| 9 900 114 | USB 2.0 Repeater extension cable, length = 10 m   | CD, CP       |
| 8 980 073 | RS232 interface cable, length 2,5 m. Interface cable RS232 9-pole/9-pole                  | CP           |
| 8 980 074 | RS232 interface cable, length 5 m. Interface cable RS232 9-pole/9-pole.                   | CP           |



## Calibration and 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<br>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        |