

**Julabo**  
THE TEMPERATURE CONTROL COMPANY

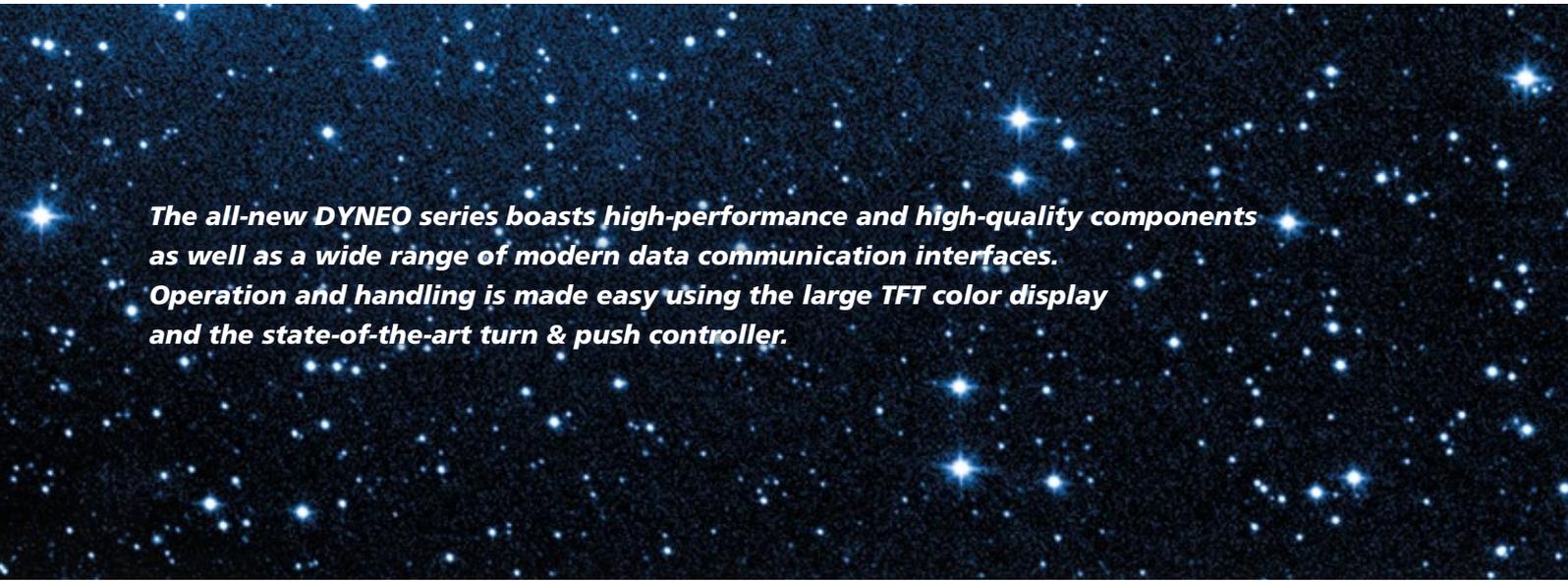
**DYNEO™**

English

DYNEO™



*Dynamic. Intuitive.*

The bottom half of the page features a background of a starry night sky with numerous bright blue and white stars of varying sizes scattered across a dark blue field.

*The all-new DYNEO series boasts high-performance and high-quality components as well as a wide range of modern data communication interfaces. Operation and handling is made easy using the large TFT color display and the state-of-the-art turn & push controller.*



DYNEO™

## *Intelligent. Powerful.*

### DYNEO™

DYNEO circulators are available in combination with heating baths as well as with heating and refrigerated baths.

DYNEO is intelligent.

Operate your DYNEO intuitively using the state-of-the-art turn & push controller. Its large TFT color display features countless programming possibilities and is very easy to read.

DYNEO is powerful.

The DYNEO DD circulator is equipped with a powerful pressure pump for perfect circulation in the bath as well as plenty of pressure available for external applications. The DYNEO DS circulator is equipped with a powerful pressure and suction pump – delivering high flow rates even at low pressure in your external application.

A decorative graphic in the bottom right corner of the page, featuring a splash of water with numerous small, bright blue and white droplets and bubbles, creating a sense of movement and freshness.



DYNEO™

## *Hot. Cold. Flexible.*

### DYNEO™

DYNEO is hot.

DYNEO Heating Circulators are available in several bath combinations, but also simply as Immersion Circulators to fit in any bath you desire – up to +200 °C.

DYNEO is hot & cold.

DYNEO Refrigerated and Heating circulators cover countless applications between -50 °C and +200 °C.

DYNEO is flexible.

The DYNEO series is available in many versions with varying cooling capacities and bath tank sizes. DYNEO is designed for internal bath applications as well as external applications.



# The advantages at a glance:

## DYNEO™ DD

- Internal and external applications
- Easy to switch between internal and external circulation
- Temperature range -50°C to +200°C
- Large color TFT display
- Easy to operate using the state-of-the-art turn & push controller
- Multi-lingual user interface
- Integrated programmer
- Heating capacity 2 kW
- USB interface
- RS232 interface (option)
- Analog interface (option)
- Class III (FL) according to DIN 12876-1
- Continuously adjustable, powerful pressure pump, flow rate 22 l/min., flow pressure 0.6 bar
- External Pt100 sensor connection

DYNEO™





## DYNEO™ DS

- **TOP:** Continuously adjustable, powerful pressure and suction pump with up to 0.45 bar on the pressure side and 0.4 bar on the suction side.
- Ideal for external and internal applications
- Temperature range -50°C to +200°C
- Large color TFT display
- Easy to operate using the state-of-the-art turn & push controller
- Multi-lingual user interface
- Integrated programmer
- Heating capacity 2 kW
- USB interface
- RS232 interface (option)
- Analog interface (option)
- Class III (FL) according to DIN 12876-1
- External Pt100 sensor connection

# DYNEO™ DD Refrigerated/Heating Circulators

DYNEO DD Refrigerated/Heating Circulators for various applications

- Suitable for internal and external applications
- Optimized cooling coil design provides more space in the bath
- Ergonomic handles
- Bath lid included
- Built-in drain tap for easy and safe drainage
- Continuously adjustable, powerful pressure pump
- External Pt100 sensor connection
- Integrated pump connectors M16x1
- DYNEO is equipped with USB interface. In addition DYNEO is available with RS232 or analog interface option.



Model DYNEO	DD-200F	DD-201F	DD-300F	DD-600F	DD-601F	DD-900F	DD-1000F	DD-1001F
<b>Order No.</b>	<b>9 021 701</b>	<b>9 021 702</b>	<b>9 021 703</b>	<b>9 021 704</b>	<b>9 021 705</b>	<b>9 021 706</b>	<b>9 021 707</b>	<b>9 021 708</b>
Order No. with RS232 interface option	9 021 701.D	9 021 702.D	9 021 703.D	9 021 704.D	9 021 705.D	9 021 706.D	9 021 707.D	9 021 708.D
Order No. with analog interface option	9 021 701.A	9 021 702.A	9 021 703.A	9 021 704.A	9 021 705.A	9 021 706.A	9 021 707.A	9 021 708.A
Working temperature range °C	-20 ... +200	-20 ... +200	-30 ... +200	-35 ... +200	-35 ... +200	-38... +200	-50 ... +200	-38 ... +100
Temperature stability °C	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
Heating capacity kW	2	2	2	2	2	2	2	2
Cooling capacity at 20 °C in kW	0.22	0.22	0.31	0.6	0.6	0.9	1	1
Pump flow rate l/min	22	22	22	22	22	22	22	22
Pump capacity bar	0.6 (pressure)							
External Pt100 sensor connection	Yes							
Bath opening/bath depth W x L / D cm	13 x 15 / 15	13 x 15 / 15	13 x 15 / 15	22 x 15 / 15	22 x 15 / 20	26 x 35 / 20	18 x 13 / 15	35 x 41 / 30
Filling volume liters	3 ... 4	3 ... 4	3 ... 4	5 ... 7.5	8 ... 10	21 ... 30	5 ... 7.5	42 ... 56

# DYNEO™ DD Immersion Circulator

The DYNEO DD Immersion Circulator provides maximum flexibility and can be used in any bath tank up to 50 liters using the universal bath attachment clamp.



DYNEO is equipped with USB interface. In addition DYNEO is available with RS232 or analog interface option.



*Stable and robust universal bath attachment clamp*



*Easy to install pump set (accessory)*

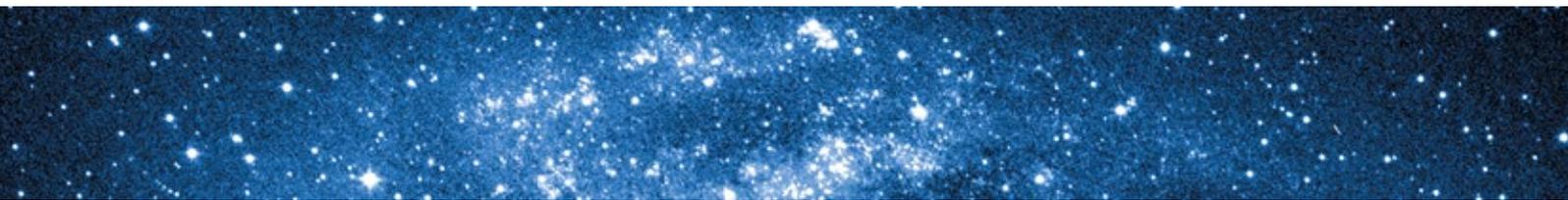
Model DYNEO	DD
<b>Order No.</b>	<b>9 021 000</b>
Order No. with RS232 interface option	9 021 000.D
Order No. with analog interface option	9 021 000.A
Working temperature range °C	+20 ... +200
Temperature stability °C	±0.01
Heating capacity kW	2
Pump flow rate l/min	22
Pump capacity bar	0.6 (pressure)
External Pt100 sensor connection	Yes
Internal temperature control	Yes
External temperature control	Yes (with accessories)
Dimensions W × L × H cm	13 × 16 × 36

\* Bath attachment clamp included

# DYNEO™ DD Heating Circulators

DYNEO Heating Circulators are available in different sizes from 4 to 26 liters.

- Ideal for internal and external applications
- Bath lid included
- Built-in drain tap for easy and safe drainage
- Built-in cooling coil for counter cooling
- Continuously adjustable, powerful pressure pump
- Integrated pump connectors M16x1
- External Pt100 sensor connection
- DYNEO is equipped with USB interface. In addition DYNEO is available with RS232 or analog interface option.



Model DYNEO	DD-BC4	DD-BC6	DD-BC12	DD-BC26
<b>Order No.</b>	<b>9 021 504</b>	<b>9 021 506</b>	<b>9 021 512</b>	<b>9 021 526</b>
Order No. with RS232 interface option	9 021 504.D	9 021 506.D	9 021 512.D	9 021 526.D
Order No. with analog interface option	9 021 504.A	9 021 506.A	9 021 512.A	9 021 526.A
Working temperature range °C	+20 ... +200	+20 ... +200	+20 ... +200	+20 ... +200
Temperature stability °C	±0.01	±0.01	±0.01	±0.01
Heating capacity kW	2	2	2	2
Pump flow rate l/min	22	22	22	22
Pump capacity bar	0.6 (pressure)	0.6 (pressure)	0.6 (pressure)	0.6 (pressure)
External Pt100 sensor connection	Yes	Yes	Yes	Yes
Bath opening/bath depth W × L/D cm	13 × 15/15	13 × 15/20	22 × 15/20	26 × 35/20
Filling volume liters	3 ... 4.5	4.5 ... 6	8.5 ... 12	19 ... 26

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# DYNEO™ DS Refrigerated/Heating Circulators

DYNEO DS Refrigerated /Heating Circulators with pressure/suction pump:

- Ideal for external and internal applications
- Continuously adjustable, powerful pressure and suction pump
- Optimized cooling coil design provides more space in the bath
- Ergonomic handles
- Bath lid included
- Built-in drain tap for easy and safe drainage
- External Pt100 sensor connection
- Integrated pump connectors M16x1
- DYNEO is equipped with USB interface. In addition DYNEO is available with RS232 or analog interface option.



Model DYNEO	DS-200F	DS-201F	DS-300F	DS-600F	DS-601F	DS-900F	DS-1000F	DS-1001F
Working temperature range °C	-20 ... +200	-20 ... +200	-30 ... +200	-32 ... +200	-32 ... +200	-38 ... +200	-48 ... +200	-30 ... +100
Temperature stability °C	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
Heating capacity kW	2	2	2	2	2	2	2	2
Cooling capacity at 20 °C in kW	0.22	0.22	0.31	0.6	0.6	0.9	1	1
Pump flow rate l/min	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
Pump capacity bar	0.45 (pressure) 0.4 (suction)							
External Pt100 sensor connection	Yes							
Bath opening/bath depth W × L / D cm	13 × 15 / 15	13 × 15 / 15	13 × 15 / 15	22 × 15 / 15	22 × 15 / 20	26 × 35 / 20	18 × 13 / 15	35 × 41 / 30
Filling volume liters	3 ... 4	3 ... 4	3 ... 4	5 ... 7.5	8 ... 10	21 ... 30	5 ... 7.5	42 ... 56

# DYNEO™ DS Immersion Circulators

The DYNEO Immersion Circulator provides maximum flexibility and can be used in any bath tank up to 50 liters using the universal bath attachment clamp.



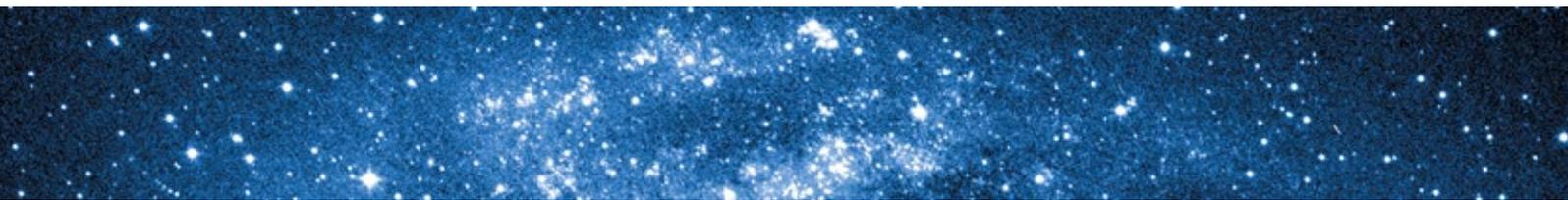
Model	DYNEO	DS
Working temperature range °C		+20 ... +200
Temperature stability °C		±0.01
Heating capacity kW		2
Pump flow rate l/min		23.5
Pump capacity bar		0.45 (pressure side) 0.4 (suction side)
External Pt100 sensor connection		Yes
Internal temperature control		Yes
External temperature control		Yes (with accessories)
Dimensions W × L × H cm		13 × 16 × 36

\* Bath attachment clamp included

# DYNEO™ DS Heating Circulators

DYNEO DS heating circulators are particularly suitable for external applications because of their pressure/suction pump.

- Ideal for external and internal applications.
- Continuously adjustable, powerful pressure and suction pump
- Bath lid included
- Built-in drain tap for easy and safe drainage
- Built-in cooling coil for counter cooling
- Integrated pump connectors M16x1
- External Pt100 sensor connection
- DYNEO is equipped with USB interface. In addition DYNEO is available with RS232 or analog interface option.



Model DYNEO	DS-BC4	DS-BC6	DS-BC12	DS-BC26
Working temperature range °C	+20 ...+200	+20 ...+200	+20 ...+200	+20 ...+200
Temperature stability °C	±0.01	±0.01	±0.01	±0.01
Heating capacity kW	2	2	2	2
Pump flow rate l/min	23.5	23.5	23.5	23.5
Pump capacity bar	0.45 (pressure) 0.4 (suction)	0.45 (pressure) 0.4 (suction)	0.45 (pressure) 0.4 (suction)	0.45 (pressure) 0.4 (suction)
External Pt100 sensor connection	Yes	Yes	Yes	Yes
Bath opening/bath depth W × L/D cm	13 × 15/15	13 × 15/20	22 × 15/20	26 × 35/20
Filling volume liters	3 ... 4.5	4.5 ... 6	8.5 ... 12	19 ... 26

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

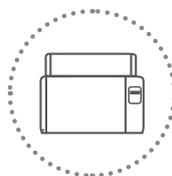
## JULABO temperature control solutions – high-precision and speed

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



### Refrigerated Circulators

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



### Water Baths and Shaking Water Baths

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



### Heating Circulators

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



### Additional Products

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

### Comprehensive service and on-site support

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

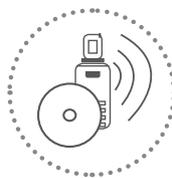
### Individual requirements – individual products

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



### **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.



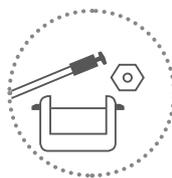
### **Wireless Communication & Software Solutions**

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



### **Recirculating Coolers**

JULABO Recirculating Coolers are highly efficient and therefore offer an environmentally friendly and economic alternative to tap water cooling in the temperature range from  $-25\text{ }^{\circ}\text{C}$  to  $+130\text{ }^{\circ}\text{C}$ .



### **Accessories**

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



## GERMANY Headquarters

**JULABO GmbH**  
Gerhard-Juchheim-Strasse 1  
77960 Seelbach  
Germany

Tel. +49 (0) 7823 51-0  
Fax +49 (0) 7823 24 91  
info.de@julabo.com  
www.julabo.com

**ITALY**  
JULABO Italia Srl.  
www.julabo.com

**UK**  
JULABO UK, Ltd.  
www.julabo.com

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