

DYNEO DD Heating Immersion Circulator

DYNEO DD heating circulators for internal and external applications are equipped with closed bath tanks. The tanks are well insulated and include a coil for counter-cooling. An integrated drain tap makes emptying the tank safe and clean. The multilingual 3.5-inch color display and unique rotary knob provide for straightforward and intuitive operation.

Optional analog and digital interface

DYNEO thermostats can optionally be equipped with analogue or digital interfaces. To request the options, order number must be extended with .d for the digital and .a for the analog interface (9XXX XXXX.A / 9XXX XXX.D)



Product features

- For internal and external applications
- Powerful and infinitely adjustable pressure pump
- Flow rate 27 l/min, pressure 0.7 bar
- Easy switching between internal and external circulation
- Large color TFT display, multilingual interface
- Central rotary knob (controller) simplifies operation
- Integrated programmer
- Integrated external Pt100 connection
- USB connection
- RS232 interface or analog interfaces (optional)
- Flexible installation options
- For internal and external applications

Technical data

Available voltage versions		Cooling	
Order No.	9 021 000	Cooling coil	accessory
Available voltage versions:			
9 021 000.33	200-230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 021 000.33.chn	200-230V/50-60Hz (CN Plug)		
9 021 000.04	200-230V/50-60Hz (UK Plug Type BS1363A)		
9 021 000.05	200-230V/50-60Hz (CH Plug Type SEV 1011)		
9 021 000.22	100-115V/50-60Hz (Nema N5-15 Plug)		
Other		Electronics	
Classification	Classification III (FL)	External pt100 sensor connection	integrated
IP Code	IP 21	Integrated programmer	8x60 steps
Pump function	Pressure Pump	Temperature control	PID2
Pump type	Immersion Pump	Absolute temperature calibration	3 Point Calibration
		Temperature display	3.5" TFT Display
		Temperature setting	Shaft Encoder
		Electronic Timer hr:min	00:00 ... 99:59
Dimensions and volumes		Temperature values	
Usable immersion depth cm	16	Setting the resolution of the temperature display °C	0.01
Weight kg	2.5	Working temperature range °C	+20 ... +200
Dimensions cm (W x L x H)	13.2 x 16 x 35.5		

Temperature stability °C	±0.01
Ambient temperature °C	+5 ... +40

Performance values

200-230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F)

200V/50Hz		200V/60Hz	
Heating capacity kW	1.5	Heating capacity kW	1.5
Viscosity max. cST	50	Viscosity max. cST	50
Pump capacity flow rate l/min	8 ... 27	Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7	Pump capacity flow pressure bar	0.1 ... 0.7
Power	9 A	Power	9 A
230V/50Hz		230V/60Hz	
Heating capacity kW	2	Heating capacity kW	2
Viscosity max. cST	50	Viscosity max. cST	50
Pump capacity flow rate l/min	8 ... 27	Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7	Pump capacity flow pressure bar	0.1 ... 0.7
Power	10 A	Power	10 A

200-230V/50-60Hz (CN Plug)

200V/50Hz		200V/60Hz	
Heating capacity kW	1.5	Heating capacity kW	2
Viscosity max. cST	50	Viscosity max. cST	50
Pump capacity flow rate l/min	8 ... 27	Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7	Pump capacity flow pressure bar	0.1 ... 0.7
Power	9 A	Power	9 A
230V/50Hz		230V/60Hz	
Heating capacity kW	2	Heating capacity kW	2
Viscosity max. cST	50	Viscosity max. cST	50
Pump capacity flow rate l/min	8 ... 27	Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7	Pump capacity flow pressure bar	0.1 ... 0.7
Power	10 A	Power	10 A

200-230V/50-60Hz (UK Plug Type BS1363A)

200V/50Hz		200V/60Hz	
Heating capacity kW	1.5	Heating capacity kW	1.5
Viscosity max. cST	50	Viscosity max. cST	50
Pump capacity flow rate l/min	8 ... 27	Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7	Pump capacity flow pressure bar	0.1 ... 0.7
Power	9 A	Power	9 A
230V/50Hz		230V/60Hz	
Heating capacity kW	2	Heating capacity kW	2
Viscosity max. cST	50	Viscosity max. cST	50

Pump capacity flow rate l/min	8 ... 27	Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7	Pump capacity flow pressure bar	0.1 ... 0.7
Power	10 A	Power	10 A

200-230V/50-60Hz (CH Plug Type SEV 1011)

200V/50Hz		200V/60Hz	
Heating capacity kW	1.5	Heating capacity kW	1.5
Viscosity max. cST	50	Viscosity max. cST	50
Pump capacity flow rate l/min	8 ... 27	Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7	Pump capacity flow pressure bar	0.1 ... 0.7
Power	9 A	Power	9 A

230V/50Hz		230V/60Hz	
Heating capacity kW	2	Heating capacity kW	2
Viscosity max. cST	50	Viscosity max. cST	50
Pump capacity flow rate l/min	8 ... 27	Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7	Pump capacity flow pressure bar	0.1 ... 0.7
Power	10 A	Power	10 A

100-115V/50-60Hz (Nema N5-15 Plug)

100V/50Hz		100V/60Hz	
Heating capacity kW	0.8	Heating capacity kW	0.8
Viscosity max. cST	50	Viscosity max. cST	50
Pump capacity flow rate l/min	8 ... 27	Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7	Pump capacity flow pressure bar	0.1 ... 0.7
Power	10 A	Power	10 A

115V/50Hz		115V/60Hz	
Heating capacity kW	1	Heating capacity kW	1
Viscosity max. cST	50	Viscosity max. cST	50
Pump capacity flow rate l/min	8 ... 27	Pump capacity flow rate l/min	8 ... 27
Pump capacity flow pressure bar	0.1 ... 0.7	Pump capacity flow pressure bar	0.1 ... 0.7
Power	11 A	Power	11 A

All Benefits



100% Checked.
100% testing. 100% quality. Each JULABO Circulator undergoes thorough quality testing before leaving the factory.



JULABO. Quality.
Highest standards of quality for a long product life.



Green technology.
Development consistently applied environmentally friendly materials and technologies.



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



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.



Handle with ease.
Makes day-to-day work easy. Comfortably move your JULABO Circulator around by using the ergonomic handles (front and rear).



Highly precise
PID Temperature control with drift compensation and adjustable control parameters, temperature stability $\pm 0.01 \dots \pm 0.02$ °C



Wide range.
Refrigerated and heating circulator in various combinations, circulator in various sizes. Maximum flexibility through a large selection of accessories.



Turn. Push. Go.
Easy operation of all parameters using the central controller.



USB.
Remote control made easy using the integrated USB interface.



RS232.
Connection using the optional RS232 interface.



Process stability.
Early warning - visual and acoustic - of critical states increases process stability.



ATC3. Calibration.
'Absolute Temperature Calibration' for compensating a physically caused temperature difference, 3-point calibration.



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



100 % Cooling capacity
'Active Cooling Control' for cooling available throughout the entire working temperature range, fast cool-down even at higher temperatures



Brilliance. In color.
Large color display with vivid luminance is easy to read, even from a large distance.



Information. Everything clear.
Information in plain text on a large color screen.



Multi-lingual.
Operation in multiple languages.



Programmer. Integrated.
The integrated internal programmer makes it possible to automatically run temperature time profiles.



Powerful. Adjustable.
Strong pressure pump, continuously adjustable.



Temperature. Under control.
External Pt100 sensor connection for precise measurement and control directly in the external application.



Fill level. Monitored.
Fill level indicator on the display for heat-transfer liquid.



Process. Under control.
Full regulation of the dynamics control, access to all important control parameters for individual process optimization.



Stable. Mobile.

Rubber feet keep JULABO Circulators standing firm. Larger and more powerful units also have integrated rollers for easy handling.



Analog I/O.

Analog interfaces for integration into process control systems (optional).