DYNEO DD-BC12 DYNEO DD Heating 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 and 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)

Your advantages

- For internal and external applications
- USB connection
- 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 for 8 x 60 program steps
- Integrated external Pt100 connection
- RS232 interface or analog interfaces (optional)
- Bath cover included with delivery
- For internal and external applications
- High-quality thermal insulation of the bath tank
- Integrated programmer
- Integrated drain makes emptying liquid easy and safe.

Technical data

Available voltage versions		Bath	
Available voltage	1010	Datii	
Order No.	9 021 512	Bath tank	Stainless steel
Available voltage vers	ions:	Bath cover	integrated
9 021 512.33	200-230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F)	Usable bath opening in. (W x L / D)	8.7 x 5.9 / 7.9
9 021 512.33.chn	200-230V/50-60Hz (CN Plug)		
9 021 512.04	200-230V/50-60Hz (UK Plug Type BS1363A)		
9 021 512.05	200-230V/50-60Hz (CH Plug Type SEV 1011)		
9 021 512.22	100-115V/50-60Hz (Nema N5-15 Plug)		
Other		Electronics	
Classification	Classification III (FL)	External pt100 sensor connection	integrated
Pump function	Pressure Pump	Integrated programmer	8x60 steps
Pump type	Immersion Pump	Temperature control	PID2
		Absolute temperature calibration	3 Point Calibration
		Temperature displayTemperature display	3.5" TFT Display
		Temperature settingTemperature setting	Shaft Encoder
		Electronic Timer hr:min	99 59
Dimensions and w	volumes	Temperature values	







Barbed fittings inner diameter8/12 mmSetting the resolution of the temperature0.01	
Dimensions in. (W × L × H) 13 x 19.3 x 18.5 display °C	
Filling volume I 8.5 12 Working temperature range °C +20 +200	
Temperature stability °C +0.01	
Pump connections M16x1 male 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 I/min	8 27	Pump capacity flow rate l/min	8 27
Pump capacity flow pressure psi	1.5 10.2	Pump capacity flow pressure psi	1.5 10.2
230V/50Hz		230V/60Hz	
Heating capacity kW	2	Heating capacity kW	2
Viscosity max. cST	50	Viscosity max. cST	50
Pump capacity flow rate I/min	8 27	Pump capacity flow rate I/min	8 27

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

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 psi	1.5 10.2	Pump capacity flow pressure psi	1.5 10.2
230V/50Hz		230V/60Hz	
230V/50Hz Heating capacity kW	2	230V/60Hz Heating capacity kW	2
	2 50		2 50
Heating capacity kW	_	Heating capacity kW	_

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 I/min	8 27	Pump capacity flow rate I/min	8 27
Pump capacity flow pressure psi	1.5 10.2	Pump capacity flow pressure psi	1.5 10.2
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 I/min	8 27
Pump capacity flow pressure psi	1.5 10.2	Pump capacity flow pressure psi	1.5 10.2



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 I/min	8 27	Pump capacity flow rate I/min	8 27
Pump capacity flow pressure psi	1.5 10.2	Pump capacity flow pressure psi	1.5 10.2
230V/50Hz		230V/60Hz	
Heating capacity kW	2	Heating capacity kW	2
Viscosity max. cST	50	Viscosity max. cST	50
Pump capacity flow rate I/min	827	Pump capacity flow rate I/min	8 27
	0 27		

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 psi	1.5 10.2	Pump capacity flow pressure psi	1.5 10.2
115V/50Hz		115V/60Hz	
115V/50Hz Heating capacity kW	1	115V/60Hz Heating capacity kW	1
	1 50		1 50
Heating capacity kW	1 50 8 27	Heating capacity kW	I

All Benefits



100% Checked.

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



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



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



Satisfied customers.

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



Solid. Minimized energy loss through high-quality insulation.



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



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

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.



°C

Highly precise PID Temperature control with drift compensation and adjustable control parameters, temperature stability ±0.01...±0.02



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



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



RS232. Standard connection using the serial RS232 interface.



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



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



ATC3. Calibration. 'Absolute Temperature Calibration' for compensating a physically caused temperature



100 % Cooling capacity

difference, 3-point calibration.

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





Handle with ease.

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



Wide range.

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



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.



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



Powerful. Adjustable. Strong pressure pump, continuously adjustable.



Connection. Easy. Inclined pump connections (M16×1) facilitate the connection of applications. Each unit includes 2 barbed fittings of 8/12 mm diameter each.



Highest measuring accuracy 'Absolute Temperature Calibration' for manual compensation of a temperature difference, 3point calibration





Temperature. Under control.

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



Process. Under control.

Full control of the dynamic, access to all important control parameters for individual process optimization.



Fill level. Monitored. Fill level indicator on the display for heattransfer liquid.

Stable. Mobile.