lulabo

DYNEO DD-300F Refrigerated - 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

- USB connection
- Removable ventilation grid
- · Space-saving cooling coil design provides more usable space in the bath tank
- 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
- RS232 interface or analog interfaces (optional)
- Powerful cooling machines
- Optimized cooling coil design saves space in the bath tank
- · Bath cover included with delivery
- · Integrated drain makes emptying liquid easy and safe.

Technical data

Available voltage versions 9 021 703 Order No. Available voltage versions: 9 021 703.01 100V/50-60Hz (Nema N5-15 Plug) 5.1 x 5.9 / 5.9 ble bath opening in. (W x L / D) 9 021 703.02 115V/60Hz (Nema N5-15 Plug) 9 021 703 03 230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) 9 021 703.03.chn 230V/50Hz (CN Plug) 9 021 703.04 230V/50Hz (UK Plug Type BS1363A) 9 021 703.05 230V/50Hz (CH Plug Type SEV 1011) 9 021 703.13 230V/60Hz (Nema N6-20 Plug) Other Cooling Cooling of compressor 1-stage Air Classification Classification III (FL) Pump function Pressure Pump Pump type Immersion Pump Electronics **Dimensions and volumes** Weight lbs 61.1 External pt100 sensor connection integrated Integrated programmer 8x60 steps Barbed fittings inner diameter 8/12 mm

Dimensions in. (W × L × H)

PID2

Temperature control

Bath	
Bath tank	Stainless steel
Bath cover	integrated
Usable bath opening in $(W \times I / D)$	$51 \times 59 / 59$

9.4 x 16.5 x 26





Absolute temperature calibration	3 Point Calibration	Filling volume l	3 4
Temperature displayTemperature display	3.5" TFT Display	Pump connections	M16x1 ma
Temperature settingTemperature setting	Shaft Encoder		
Electronic Timer hr:min	99 59		
Temperature values			
Setting the resolution of the temperature display °C	0.01		
Working temperature range °C	-25 +200		
Temperature stability °C	±0.01		
Ambient temperature °C	+5.0 +40.0		

Performance values

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

100V/50Hz										
Heating capacity kW 0.8										
Coolir	ng capa									
°C	200	20	10	0	-10	-20				
kW	0.3	0.3	0.08							
Visco	sity ma	x. cST					50			
Refrig	erant						R134a			
Filling	volum	e g					100			
Globa	l Warm	ing Po	tentia	I for R1	34a		1430			
Carbo	n dioxi		0.143							
Pump	capac		8 27							
Pump	сарас	ity flov	v press	sure ps	si		1.5 10.2			

100V/60Hz												
Heatin	ig capa	acity k\		0.8								
Coolin	g capa	icity (E	thano	I)								
°C	200	20	10	0	-10	-20						
kW	0.3	0.3	0.3	0.27	0.19	0.08						
Viscos	sity ma	x. cST					50					
Refrige	erant						R134a					
Filling	volum	e g					100					
Global	Warm	ing Po	tentia	l for R1	34a		1430					
Carbo	n dioxi	de equ		0.143								
Pump	capac	ity flov		8 27								
Pump	сарас	ity flov	v pres	sure ps	si		1.5 10.2					

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

115V/60Hz										
Heating capacity kW 1										
Cooling capacity (Ethanol)										
°C	200	20	10	0	-10	-20				
kW	0.3	0.3	0.08							
Viscos	sity ma	x. cST					50			
Refrig	erant						R134a			
Filling	volum	e g					100			
Globa	l Warm	ing Po	tentia	l for R1	34a		1430			
Carbo	n dioxi	de equ		0.143						
Pump capacity flow rate I/min 8 27										
Pump	capac	ity flov	v press	sure ps	si		1.5 10.2			

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

230V/50Hz

Heating capacity kW



Cooling capacity (Ethanol)

W 0.3 0.3 0.3 0.27 0.19 0.08 Viscosity max: cST 50 Refrigerant Filling volume g Fill		9	, (-		,			
Viscosity max. cST 50 Refrigerant R134a illing volume g 100 Slobal Warming Potential for R134a 1430 carbon dioxide equivalent t 0.143 Pump capacity flow rate l/min 8 27	°C	200	20	10	0	-10	-20	
RefrigerantR134ailling volume g100Global Warming Potential for R134a1430Carbon dioxide equivalent t0.143Pump capacity flow rate I/min8 27	kW	0.3	0.3	0.3	0.27	0.19	0.08	
illing volume g100Global Warming Potential for R134a1430Garbon dioxide equivalent t0.143Pump capacity flow rate l/min8 27	Viscos		50					
Slobal Warming Potential for R134a1430Carbon dioxide equivalent t0.143Pump capacity flow rate l/min8 27	Refrig	erant						R134a
Carbon dioxide equivalent t 0.143 Pump capacity flow rate l/min 8 27	Filling	volum	e g					100
Pump capacity flow rate I/min 8 27	Global	Warm	ing Po	tentia	l for R1	34a		1430
······································	Carbo	n dioxi	de equ	ivalen	tt			0.143
Pump capacity flow pressure psi 1.5 10.2	Pump		8 27					
	Pump		1.5 10.2					

230V/50Hz (CN Plug)

230V/50Hz										
Heating capacity kW 2										
Cooling capacity (Ethanol)										
°C	200	20	10	0	-10	-20				
kW	0.3	0.3	0.08							
Viscos	sity ma	x. cST					50			
Refrig	erant						R134a			
Filling	volum	e g					100			
Globa	Warm	ing Po	otentia	l for R1	34a		1430			
Carbo	n dioxi	de equ		0.143						
Pump capacity flow rate I/min 8 27										
Pump	capac	ity flov	v pres	sure ps	si		1.5 10.2			

230V/50Hz (UK Plug Type BS1363A)

230V/50Hz										
Heating capacity kW 2										
Cooling capacity (Ethanol)										
°C	200	20	-20							
kW	0.3	0.3	0.08							
Viscos	sity ma	x. cST					50			
Refrig	erant						R134a			
Filling	volum	e g					100			
Globa	l Warm	ing Po	tentia	I for R1	34a		1430			
Carbon dioxide equivalent t 0.143										
Pump capacity flow rate I/min 8 27										
Pump capacity flow pressure psi 1.5 10.2										

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

230V/50Hz											
Heating capacity kW 2											
Coolin	ig capa	icity (E	thano	l)							
°C	200	20	10	0	-10	-20					
kW	0.3	0.3	0.3	0.27	0.19	0.08					



Viscosity max. cST	50
Refrigerant	R134a
Filling volume g	100
Global Warming Potential for R134a	1430
Carbon dioxide equivalent t	0.143
Pump capacity flow rate I/min	8 27
Pump capacity flow pressure psi	1.5 10.2

230V/60Hz (Nema N6-20 Plug)

230V/60Hz										
Heating capacity kW 2										
Cooling capacity (Ethanol)										
°C	200	20	10	0	-10	-20				
kW	0.3	0.3	0.08							
Viscos	sity ma	ix. cST					50			
Refrig	erant						R134a			
Filling	volum	e g					100			
Globa	Warm	ning Po	otentia	l for R1	34a		1430			
Carbo	n dioxi	0.143								
Pump	8 27									
Pump	capac	ity flov	v pres	sure ps	si		1.5 10.2			

All Benefits



More bath. Designed for more comfort. Thanks to the recessed cooling coil, the internal bath provides more space.



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.



Space saving. Free up space. Place your JULABO Circulator right next to an application, another unit, or wall. That saves space. This is made possible by eliminating vents and connections on the sides.



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



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.





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.



Highly precise

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



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

difference, 3-point calibration.



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



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



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

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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.