

DYNEO DD-200F 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)



Author 1800

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 I/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

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Available voltage	versions		Bath						
Order No.	9 021 701		Bath tank	Stainless steel					
Available voltage vers	sions:		Bath cover	integrated					
9 021 701.01	100V/50-60Hz (Ne	ma N5-15 Plug)	Usable bath opening in. (W x L / D)	5.1 x 5.9 / 5.9					
9 021 701.02	115V/60Hz (Nema	N5-15 Plug)							
9 021 701.04	230V/50-60Hz (UK	Plug Type BS1363A)							
9 021 701.05	230V/50-60Hz (CH	l Plug Type SEV 1011)							
9 021 701.33	230V/50-60Hz (Sc Plug Type F)	huko Plug - CEE 7/4							
9 021 701.33.chn	230V/50-60Hz (CN	l Plug)							
Cooling			Other						
Cooling of compresso	or	1-stage Air	Classification	Classification III (FL)					
				Oldoomication in (i L)					
			Pump function	Pressure Pump					
				` '					
Electronics			Pump function	Pressure Pump					
Electronics External pt100 senso	rconnection	integrated	Pump function Pump type	Pressure Pump					
			Pump function Pump type Dimensions and volumes	Pressure Pump Immersion Pump					
External pt100 senso		integrated	Pump function Pump type Dimensions and volumes Weight lbs	Pressure Pump Immersion Pump 56.7					
External pt100 senso Integrated programm	er	integrated 8x60 steps	Pump function Pump type Dimensions and volumes Weight lbs Barbed fittings inner diameter	Pressure Pump Immersion Pump 56.7 8/12 mm					



Temperature displayTemperature display	3.5" TFT Display
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	-20 + 200
Temperature stability °C	±0.01
Ambient temperature °C	+5.0 +40.0

Pump connections M16x1 male

Performance values

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

100V	//50H	Z						100V/60Hz									
Heating capacity kW 0.8									Heating capacity kW 0.8								
Coolin	Cooling capacity (Ethanol)								ıg capa	city (E	thano	l)					
°C	200	20	10	0	-10	-20		°C	200	20	10	0	-10	-20			
kW	0.2	0.2	0.17	0.15	0.1	0.02		kW	0.2	0.2	0.17	0.15	0.1	0.02			
Viscos	sity ma	x. cST	Γ				50	Viscosity max. cST							50		
Refrig	erant						R134a	Refrig	erant		ı	R134a					
Filling	volum	e g					70	Filling	volum	e g				•	70		
Globa	l Warm	ing Po	otentia	l for R1	34a		1430	Globa	l Warm	ing Po	otentia	l for R1	134a		1430		
Carbo	Carbon dioxide equivalent t 0.1								Carbon dioxide equivalent t 0.1						0.1		
Pump capacity flow rate I/min 8 27								Pump capacity flow rate I/min 8 27						8 27			
Pump	capac	ity flo	w pres	sure ps	si		1.5 10.2	Pump capacity flow pressure psi 1.5 10.2						1.5 10.2			

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

115V	115V/60Hz											
Heating capacity kW 1												
Cooling capacity (Ethanol)												
°C	200	20	10	0	-10	-20						
kW	0.2	0.2	0.17	0.15	0.1	0.02						
Viscos	sity ma	x. cST					50					
Refrig	erant						R134a					
Filling	volum	e g					70					
Globa	l Warm	ing Po	tentia	l for R1	34a		1430					
Carbo	n dioxi	de equ	ıivalen	t t			0.1					
Pump	capac	ity flov	v rate l	/min			8 27					
Pump	capac	ity flov	v press	sure ps	si		1.5 10.2					

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

230V/50Hz		230V/60Hz	
Heating capacity kW	2	Heating capacity kW	2



Coolir	ıg capa	city						Coolin	ıg capa	city						
°C	200	20	10	0	-10	-20		°C 200 20 10 0 -10								
kW	0.2	0.2	0.17	0.15	0.1	0.02		kW	0.2	0.2	0.17	0.15	0.1	0.02		
√isco	sity ma	x. cST	-				50	Visco	sity ma	x. cST	•					
Refrig	erant					1	R134a	Refrig	Refrigerant R							
Filling	volum	e g					70	Filling	volum	e g						
Globa	l Warm	ing Po	otentia	I for R	134a		1430	Globa	l Warm	ing Po	otentia	l for R1	34a			
Carbo	n dioxi	de equ	uivalen	t t		(0.1	Carbo								
Pump	capac	ity flov	w rate l	l/min		;	8 27	Pump capacity flow rate I/min 8 27								
Pump	capac	ity flov	w press	sure p	si		1.5 10.2	Pump	capac	ity flov	w press	sure ps	si			

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

230\	//50H	łz						230V/60Hz							
Heati	ng cap	acity k	W				2	Heating capacity kW 2							
Coolii	Cooling capacity (Ethanol)								ıg capa	city (E	thano	l)			
°C	200	20	10	0	-10	-20		°C	200	20	10	0	-10	-20	
kW	W 0.2 0.2 0.17 0.15 0.1 0.02							kW	0.2	0.2	0.17	0.15	0.1	0.02	
Visco	sity ma	ax. cST	•				50	Viscosity max. cST						ţ	50
Refrig	jerant						R134a	Refrigerant R134a						R134a	
Filling	yolum	ne g					70	Filling volume g 70						70	
Globa	l Warm	ning Po	otentia	I for R1	34a		1430	Global Warming Potential for R134a 1430						1430	
Carbo	Carbon dioxide equivalent t 0.1								Carbon dioxide equivalent t 0.1						0.1
Pump capacity flow rate I/min 8 27								Pump capacity flow rate I/min 8 27						3 27	
Pump	capac	ity flov	w pres	sure ps	si		1.5 10.2	Pump capacity flow pressure psi 1.5 10.2						1.5 10.2	

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

230\	//50H	lz						230V/60Hz								
Heating capacity kW 2									Heating capacity kW 2							
Coolir	Cooling capacity (Ethanol)									city (E	thano	l)				
°C	200	20	10	0	-10	-20		°C	200	20	10	0	-10	-20		
kW	kW 0.2 0.2 0.17 0.15 0.1 0.02							kW	0.2	0.2	0.17	0.15	0.1	0.02		
Visco	sity ma	x. cS7	Γ				50	Viscosity max. cST							50	
Refrig	erant						R134a	Refrigerant						F	R134a	
Filling	volum	e g					70	Filling volume g						-	70	
Globa	l Warm	ning Po	otentia	l for R1	34a		1430	Global Warming Potential for R134a						•	1430	
Carbo	Carbon dioxide equivalent t 0.1								Carbon dioxide equivalent t 0.1						0.1	
Pump capacity flow rate I/min 8 27								Pump capacity flow rate I/min 8 27						3 27		
Pump	сарас	ity flo	w pres	sure ps	si		1.5 10.2	Pump capacity flow pressure psi 1.5 10.2						1.5 10.2		

230V/50-60Hz (CN Plug)

230V	//50H	Z						230V	//60H	Z				
Heatir	Heating capacity kW 2						Heating capacity kW 2							
Coolin	ng capa	city (E	thanol	l)				Cooling capacity (Ethanol)						
°C	200	20	10	0	-10	-20		°C	200	20	10	0	-10	-20
kW	W 0.2 0.2 0.17 0.15 0.1 0.02					kW	0.2	0.2	0.17	0.15	0.1	0.02		



Viscosity max. cST	50	Viscosity max. cST	50
Refrigerant	R134a	Refrigerant	R134a
Filling volume g	70	Filling volume g	70
Global Warming Potential for R134a	1430	Global Warming Potential for R134a	1430
Carbon dioxide equivalent t	0.1	Carbon dioxide equivalent t	0.1
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

All Benefits



More bath.

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



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.



Solid.

Minimized energy loss through high-quality insulation.



Tidy.

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



Condensation protection.

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



100% Checked.

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



Green technology.

Development consistently applied environmentally friendly materials and technologies.



JULABO. Quality.

Highest standards of quality for a long product life.



Quick start.

Individual JULABO consultation and comprehensive manuals at your disposal.



Satisfied customers.

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



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 CORIO around by using the ergonomic handles (front and rear).



Highly precise

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



Wide range.

Refrigerated and heating circulator in various combinations, circulator in various sizes.

Maximum flexibility through large selection of accessories.





Turn. Push. Go.

Easy operation of all parameters using the central controller.



Brilliance. In color.

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



USB.

Remote control made easy using the integrated USB interface.



Information. Everything clear.

Information in plain text on a large color screen.



RS232.

Standard connection using the serial RS232 interface.



Multi-lingual.

Operation in multiple languages.



Analog I/O.

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



Process stability.

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



Programmer. Integrated.

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



Powerful. Adjustable.

Strong pressure pump, continuously adjustable.



ATC3. Calibration.

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



Connection. Easy.

Inclined pump connections (M16×1) 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



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.



Fill level. Monitored.

Fill level indicator on the display for heattransfer liquid.



Process. Under control.

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



Stable. Mobile.