

DYNEO DD-601F 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 yields 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		Bath	
Order No.	9 021 705	Bath tank	Stainless steel
Available voltage versions:		Bath cover	integrated
9 021 705.01		Usable bath opening cm (W x L / D)	
9 021 705.02		22 x 15 / 20	
9 021 705.33			
9 021 705.04			
9 021 705.05			
9 021 705.33.chn			
Cooling		Other	
Cooling of compressor	1-stage Air	Classification	Classification III (FL)
		Pump function	Pressure Pump
		Pump type	Immersion Pump
Electronics		Dimensions and volumes	
External pt100 sensor connection	integrated	Weight kg	38.2
Integrated programmer	8x60 steps	Barbed fittings inner diameter	8/12 mm
Temperature control	PID2	Dimensions cm (W x L x H)	36 x 46 x 74
Absolute temperature calibration	3 Point Calibration	Filling volume l	8 ... 10
Temperature display	3.5" TFT Display	Pump connections	M16x1 male

Temperature 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	-35 ... +200
Temperature stability °C	±0.01
Ambient temperature °C	+5.0 ... +40.0

Performance values

100V/50Hz							
Heating capacity kW				0.8			
Cooling capacity (Ethanol)							
°C	200	20	10	0	-10	-20	-30
kW	0.6	0.6	0.54	0.5	0.33	0.19	0.07
Viscosity max. cST				50			
Refrigerant				R404A			
Filling volume g				200			
Global Warming Potential for R404A				3922			
Carbon dioxide equivalent t				0.784			
Pump capacity flow rate l/min				8 ... 27			
Pump capacity flow pressure bar				0.1 ... 0.7			
115V/60Hz							
Heating capacity kW				1			
Cooling capacity (Ethanol)							
°C	200	20	0	-10	-20	-30	
kW	0.6	0.6	0.44	0.27	0.16	0.04	
Viscosity max. cST				50			
Refrigerant				R449A			
Filling volume g				150			
Global Warming Potential for R449A				1397			
Carbon dioxide equivalent t				0.21			
Pump capacity flow rate l/min				8 ... 27			
Pump capacity flow pressure bar				0.1 ... 0.7			
200V/50Hz							
Heating capacity kW				1.5			
Cooling capacity (Ethanol)							
°C	200	20	0	-10	-20	-30	
kW	0.6	0.6	0.44	0.27	0.16	0.04	
Viscosity max. cST				50			
Refrigerant				R449A			
Filling volume g				150			
Global Warming Potential for R449A				1397			
Carbon dioxide equivalent t				0.21			
200V/60Hz							
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Cooling capacity (Ethanol)							
°C	200	20	0	-10	-20	-30	
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Carbon dioxide equivalent t				0.21			

Pump capacity flow rate l/min	8 ... 27					
Pump capacity flow pressure bar	0.1 ... 0.7					
230V/50Hz						
Heating capacity kW	2					
Cooling capacity (Ethanol)						
°C	200	20	0	-10	-20	-30
kW	0.6	0.6	0.44	0.27	0.16	0.04
Viscosity max. cST	50					
Refrigerant	R449A					
Filling volume g	150					
Global Warming Potential for R449A	1397					
Carbon dioxide equivalent t	0.21					
Pump capacity flow rate l/min	8 ... 27					
Pump capacity flow pressure bar	0.1 ... 0.7					
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Heating capacity kW	1.5					
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230V/50Hz

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Cooling capacity (Ethanol)							
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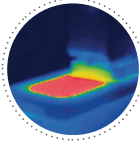
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All Benefits



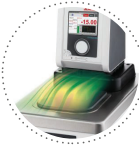
More bath.

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.



Quick start.

Individual JULABO consultation and comprehensive manuals at your disposal.



Services 24/7.



Highly precise

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



Turn. Push. Go.

Easy operation of all parameters using the central controller.



USB.

Remote control made easy using the integrated USB interface.



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.



Tidy.

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.



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 JULABO Circulator 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 a 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.



RS232.
Connection using the optional 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, 3-point 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 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.