

DYNEO DD-601F Refrigerated / heating circulator

Refrigerated circulators of the DYNEO series distinguish themselves with a great price-performance ratio. The instruments offer high heating/cooling capacities for short heat-up and cool-down times. The refrigerated circulators work precisely and reliably even at higher ambient temperatures up to +40 °C. Either in basic research, in material testing or in technical systems – the DYNEO refrigerated circulators offer functional solutions for every requirement and budget.

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)

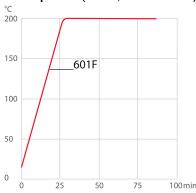




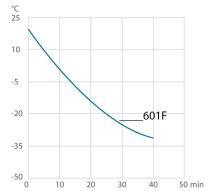
Product features

- For internal and external applications
- · Optimized cooling coil design saves space in the bath tank
- · 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)
- Integrated drain makes emptying liquid easy and safe.
- · Bath cover included with delivery
- Removable ventilation grid
- Space-saving cooling coil design provides more usable space in the bath tank
- For internal and external applications
- · Powerful cooling machines

Heat-up time (230V, 2kW heater)



Cool-down time





Performance values

115V/60Hz (Nema N5-15 Plug)	
Heating capacity kW	1
Viscosity max. cST	50
Pump capacity flow rate I/min	8 27
Pump capacity flow pressure psi	1.5 10.2
Power A	12

.			0001705.00		
Order No.			9021705.02		
Cooling capacit	y (Ethanol)				
°C	20	0	-10	-20	-30
kW	0.6	0.44	0.27	0.16	0.04
			6. Cooling capacities up to 20 ambient temperature of 20 °C.		
Refrigerant		R449A			
Filling volume g	l	150			
Global Warming	g Potential	1397			
for R449A					

Technical data

Available voltage ve	rsions	Bath	
Order No.	9 021 705	Bath tank	Stainless steel
Available voltage version	s:	Bath cover	integrated
9021705.01	100V/50-60Hz (Nema N5-15 Plug) (R452A)	Usable bath opening in. (W x L / D) 8.7 x 5.9 / 7.9	
9021705.02	115V/60Hz (Nema N5-15 Plug) (R449A)		
9021705.33	200-230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F) (R449A)		
9021705.04	200-230V/50-60Hz (UK Plug Type BS1363A) (R449A)		
9021705.05	200-230V/50-60Hz (CH Plug Type SEV 1011) (R449A)		
9021705.33.chn	200-230V/50-60Hz (CN Plug) (R449A)		
Cooling		Other	
Cooling of compressor	1-stage Air	Classification	Classification III (FL)
		Pump function	Pressure Pump
		Pump type	Immersion Pump
Electronics		Dimensions and volumes	
		Weight lbs	84.2
		Barbed fittings inner diameter	8/12 mm



Digital interface	RS232 optional, USB, Alarm output optional, Reg/Eprog optional, Standby-Input optional	Dimensions in. (W × L × I	
			Filling volume I
		Pump connections	
External pt100 sensor connection	integrated		
Integrated programmer	8x60 steps		
Temperature control	PID3		
Absolute temperature calibration	3 Point Calibration		
Temperature displayTemperature display	3.5" TFT Display		
Temperature settingTemperature setting	Shaft Encoder		
Electronic Timer hr:min	00:00 99:59		

Dimensions in. $(W \times L \times H)$	14.2 x 18.1 x 29.1
Filling volume I	8 10
Pump connections	M16x1 male

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 +40

Included in delivery

2 Barbed fittings for tubing 8 and 12 mm ID. (Pump connections M16x1 male)

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.us.



Quick support

If an error occurs, the integrated Black-Box function permits fast diagnosis by the JULABO service team



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 $\pm 0.01... \pm 0.02~^{\circ}\text{C}$



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).



Process stability.

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



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



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



Stable. Mobile.





Wide range.

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

Maximum flexibility through large selection of accessories.



ATC3. Calibration.

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