DYNEO DD-200F Refrigerated/Heating Circulator

New temperature control technology for demanding applications

DYNEO DD refrigerated circulators have a wide working temperature range. Refrigerated circulators are suitable for both internal and external applications. The multilingual 3.5-inch color display and unique rotary knob provide for straightforward and intuitive operation. Pump capacity is 22 l/min with pressure of 0.6 bar. The cooling machines operate precisely and reliably even at elevated ambient temperatures up to +40 °C.

Your advantages

- · Powerful cooling machines
- · Suitable for internal and external applications
- · Optimized cooling coil design saves space in the bath tank
- · Powerful and infinitely adjustable pressure pump
- Flow rate 22 l/min, pressure 0.6 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 port
- RS232 interface or analog interfaces (optional)
- · Bath cover included with delivery
- Integrated drain makes emptying liquid easy and safe.

Technical Data

Order No.	9021701
Order No. with RS232 Option	9021701.D
Order No. with analog Option	9021701.A
Model series	DYNEO
Category	Refrigerated - Heating Circulators
Working temperature range (°C)	-20 +200
Temperature control	PID
Temperature stability (°C)	±0.01
Setting / display resolution	0.01 °C
Temperature Display	3.5" TFT Display
Heating capacity (kW)	2
Cooling capacity (Medium Ethanol)	°C 200 20 10 0 -10 -20 kW 0.2 0.2 0.17 0.15 0.1 0.02
Pump capacity flow rate (I/min)	8 23
Pump capacity flow pressure (bar)	0.1 0.6
Viscosity max. (cSt)	50
Bath opening / bath depth (W x L / D cm)	13 x 15 / 15

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Pump connections	M16x1
Barbed fittings diameter (inner dia. / mm)	8 / 12
Filling volume liters	34
Refrigerant stage 1	R134a
Filling volume refrigerant stage 1 (g)	70
Global Warming Potential for R134a	1430
Carbon dioxide equivalent stage 1 (t)	0.1
Digital interface	USB
Analog connection input / output	Optional
Ambient temperature	540 °C
Dimensions W x L x H (cm)	23 x 39 x 65
Weight (kg)	25.7
Included with each unit	2 each barbed fitting for tubing 8 and 12 mm inner dia. (pump connections M16x1 male)
Bath tank	Stainless steel
Bath cover	integrated
Cooling of compressor	Air
Available voltage versions	230V/50-60Hz 100V/50-60Hz 115V/60Hz

Characteristics



100 % Cooling capacity.

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



Analog I/O.

Analog interfaces for integration into process control systems.



ATC3 Calibration.

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



Brilliance. In color.

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



Multi-lingual. Operation in multiple languages.



Powerful. Adjustable. Strong pressure pump, continuously adjustable.



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



Process. Under control.

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



Product data sheet



Condensation protection.

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



Connection. Easy.

Inclined pump connections (M16x1) facilitate the connection of applications. Each unit includes 2 barbed fittings of 8/12 mm diameter each.



Everything at the front. All operating controls and safety functions are accessed easily and comfortably from the front.



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



Programmer. Integrated.

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



RS232. Standard connection using the serial RS232





Stable. Mobile.

Turn. Push. Go.

central controller.

interface.

Rubber feet keep JULABO Circulators standing firm. Larger and more powerful units also have integrated rollers for easy handling.



Temperature. Under control.

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

Easy operation of all parameters using the



Highly precise.

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



Information. Everything clear. Information in plain text on a large color screen.



USB.

Remote control made easy using the integrated USB interface.