

## 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.



Made in Germany

### 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)	1						
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 (l/min)	8 ... 23						
Pump capacity flow pressure (psi)	1.5 ... 8.7						
Viscosity max. (cSt)	50						
Bath opening / bath depth (W x L / D inch)	5.1 x 5.9 / 5.9						

Pump connections	M16x1
Barbed fittings diameter (inner dia. / mm)	8 / 12
Filling volume liters	3 ... 4
Refrigerant stage 1	R134a
Filling volume refrigerant stage 1 (g)	70
Global Warming Potential for	1430
Carbon dioxide equivalent stage 1 (t)	0.1
Digital interface	USB
Analog connection input / output	Optional
Ambient temperature	5...40 °C
Dimensions W x L x H (inch)	9.1 x 15.4 / 25.6
Weight (LBS)	56.7
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