

DYNEO DD-300F 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.	9021703												
Order No. with RS232 Option	9021703.D												
Order No. with analog Option	9021703.A												
Model series	DYNEO												
Category	Refrigerated - Heating Circulators												
Working temperature range (°C)	-30 ... +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)	<table border="1"> <tbody> <tr> <td>°C</td> <td>20</td> <td>10</td> <td>0</td> <td>-10</td> <td>-20</td> </tr> <tr> <td>kW</td> <td>0.3</td> <td>0.3</td> <td>0.27</td> <td>0.19</td> <td>0.08</td> </tr> </tbody> </table>	°C	20	10	0	-10	-20	kW	0.3	0.3	0.27	0.19	0.08
°C	20	10	0	-10	-20								
kW	0.3	0.3	0.27	0.19	0.08								
Pump capacity flow rate (l/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												

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)	100
Global Warming Potential for R134a	1430
Carbon dioxide equivalent stage 1 (t)	0.143
Digital interface	USB
Analog connection input / output	Optional
Ambient temperature	5...40 °C
Dimensions W x L x H (cm)	24 x 42 x 66
Weight (kg)	27.7
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	100V/50-60Hz 115V/60Hz 230V/50z 230V/60z