

## DYNEO DD-601F 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 for 8 x 60 program steps
- 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.                                  | 9021705                            |     |     |      |     |      |      |      |
| Order No. with RS232 Option                | 9021705.D                          |     |     |      |     |      |      |      |
| Order No. with analog Option               | 9021705.A                          |     |     |      |     |      |      |      |
| Model series                               | DYNEO                              |     |     |      |     |      |      |      |
| Category                                   | Refrigerated - Heating Circulators |     |     |      |     |      |      |      |
| Working temperature range (°C)             | -35 ... +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  | -30  |
|                                            | kW                                 | 0.6 | 0.6 | 0.54 | 0.5 | 0.33 | 0.19 | 0.07 |
| 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) | 8.7 x 5.9 / 7.9                    |     |     |      |     |      |      |      |

|                                            |                                                                                          |
|--------------------------------------------|------------------------------------------------------------------------------------------|
| Pump connections                           | M16x1                                                                                    |
| Barbed fittings diameter (inner dia. / mm) | 8 / 12                                                                                   |
| Filling volume liters                      | 8 ... 10                                                                                 |
| Refrigerant stage 1                        | R452A                                                                                    |
| Filling volume refrigerant stage 1 (g)     | 150                                                                                      |
| Global Warming Potential for               | 2140                                                                                     |
| Carbon dioxide equivalent stage 1 (t)      | 0.321                                                                                    |
| Digital interface                          | USB                                                                                      |
| Analog connection input / output           | Optional                                                                                 |
| Ambient temperature                        | 5...40 °C                                                                                |
| Dimensions W x L x H (inch)                | 14.2 x 18.1 / 29.1                                                                       |
| Weight (LBS)                               | 84.2                                                                                     |
| Included with each unit                    | 2 each barbed fitting for tubing 8 and 12 mm inner dia.<br>(pump connections M16x1 male) |
| Bath tank                                  | Stainless steel                                                                          |
| Bath cover                                 | integrated                                                                               |
| Cooling of compressor                      | Air                                                                                      |
| Available voltage versions                 | 100V/50-60Hz<br>115V/60Hz<br>200-230V/50-60Hz                                            |