

CORIO CD-800F Refrigerated / heating circulator

Refrigerated / heating circulators of the CORIO CD series distinguish themselves with a great price-to-performance ratio. Durable and dependable, they are suitable for a wide range of standard and routine work in both laboratories and industrial environments.

With a working temperature range of $-40 \dots +150 \text{ }^{\circ}\text{C}$, the Refrigerated / heating circulator CORIO CD-800F delivers an outstanding cooling capacity of 0.85 kW at $20 \text{ }^{\circ}\text{C}$ despite its compact design.

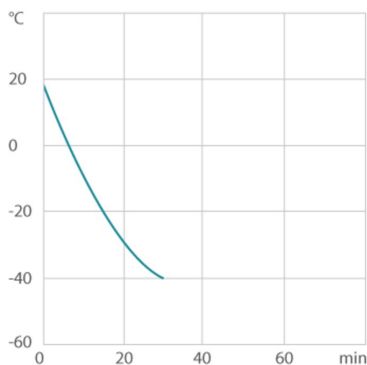
This cooling machine works with natural, environmentally-friendly refrigerant and was developed with a focus on energy efficiency. This means significant savings on the operating costs for numerous applications, which also means rapid amortization of the procurement cost. At the same time, the lower energy consumption positively contributes to climate protection.



Product features

- Models for internal and external applications
- Bright, white, easy to read display
- Very quiet
- USB connection
- Integrated pump connection M16×1
- easy switching between internal and external circulation
- Bath lid and drain tap included
- removable ventilation grid
- Refrigeration unit without side vents
- Class III (FL) according to DIN 12876-1
- Space-saving cooling coil design yields more usable space in the bath tank

Cool-down time



Performance values

| | |
|---|------|
| 230V/50Hz (UK Plug Type BS1363A) | |
| Heating capacity kW | 2 |
| Viscosity max. cSt | 50 |
| Pump capacity flow rate l/min | 15 |
| Pump capacity flow pressure bar | 0.35 |
| Power consumption A | 11 |

| | | | | | |
|--|---------------|------|-----|------|------|
| Order No. | 9012715.N1.04 | | | | |
| Cooling capacity (Ethanol) | | | | | |
| °C | 20 | 0 | -20 | -30 | -40 |
| kW | 0.85 | 0.75 | 0.4 | 0.25 | 0.11 |
| * Performance specifications measured in accordance with DIN 12876. Cooling capacities up to 20 °C measured with ethanol; over 20 °C with thermal oil unless otherwise specified. Performance specifications apply at an ambient temperature of 20 °C. Performance values may differ with other bath fluids. | | | | | |
| Note about natural refrigerants: Temperature control units using natural refrigerants are often subject to regulatory requirements regarding the installation site, operation, transport or disposal of the units. If you have any questions, we will be happy to advise you. | | | | | |
| Refrigerant stage 1 | | | | | |
| Refrigerant | R1270 | | | | |
| Filling weight g | 85 | | | | |
| Global Warming Potential for R1270 | 2 | | | | |
| Carbon dioxide equivalent t | 0.00017 | | | | |

Technical data

| | | | |
|-----------------------------------|---|------------------------------------|-------------------------|
| Available voltage versions | | Bath | |
| Order No. | 9 012 715 | Bath tank | Stainless steel |
| Available voltage versions: | | Bath cover | integrated |
| 9012715.N1.13 | 230V/60Hz (Nema N6-20 Plug) (R1270) | Usable bath opening cm (W x L / D) | 18 x 13 / 15 |
| 9012715.N1.03.chn | 230V/50Hz (CN Plug) (R1270) | | |
| 9012715.N1.04 | 230V/50Hz (UK Plug Type BS1363A) (R1270) | | |
| 9012715.N1.05 | 230V/50Hz (CH Plug Type SEV 1011) (R1270) | | |
| 9012715.N1.02 | 115V/60Hz (Nema N5-20 Plug) (R1270) | | |
| 9012715.N1.03 | 230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R1270) | | |
| 9012715.N1.12 | 200V/50-60Hz (Nema N6-20 Plug) (R1270) | | |
| 9012715.N1.01 | 100V/50-60Hz (Nema N5-20 Plug) (R1270) | | |
| Cooling | | Other | |
| Cooling of compressor | 1-stage Air | Classification | Classification III (FL) |

| | |
|---------------|----------------|
| IP Code | IP 21 |
| Pump function | Pressure Pump |
| Pump type | Immersion Pump |

| Electronics | |
|----------------------------------|---------------------|
| Interfaces | USB |
| Temperature control | PID1 |
| Absolute temperature calibration | 1 Point Calibration |
| Temperature display | LED |
| Temperature setting | Keypad |

| Dimensions and volumes | |
|--------------------------------|--------------|
| Weight kg | 42 |
| Barbed fittings inner diameter | 8/12 mm |
| Dimensions cm (W x L x H) | 33 x 47 x 70 |
| Filling volume l | 5 ... 7.5 |
| Pump connections | M16x1 male |

| Temperature values | |
|--|--------------|
| Setting the resolution of the temperature display °C | 0.1 |
| Working temperature range °C | -40 ... +150 |
| Temperature stability °C | ±0.03 |
| Ambient temperature °C | +5 ... +40 |
| Temperature display resolution °C | 0.01 ... 0.1 |

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

All Benefits



Brilliant.
 Very bright display makes it easy to read even from a distance.



Switch on. And off you go.
 Intelligent operating concept. Ready for operation with just a few quick and easy steps.



Timer. Integrated.
 CORIO circulators include an integrated timer function. When the set time has elapsed, a signal sounds and the device switches off. Setting range: 0 ... 999 minutes.



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



Exact.
 You can rely on it. PID1 control and 'Active Cooling Control' make the new CORIO precise and perfect.



Locked in.
 The lockable power plug guarantees safe connection. More process safety.



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



Early warning system for low liquid level
 Maximum safety for applications, optical and audible alarm, allows user to refill bath fluid before the unit shuts down



Connectivity.
 Remote control made easy. CORIO CD circulators feature a USB connection.