



designed for scientists



## RC 2 basic

/// Data Sheet

High-efficiency circulating chiller with powerful 400 W cooling capacity. Designed for cooling applications up to -20 °C. The speed-controlled PEEK pump allows an indirect continuous adjustment of the maximum pressure and flow rate. Due to its excellent temperature stability of about  $\pm 0.1$  K (@ -10 °C), the RC 2 can handle even sophisticated applications.

The included feed hopper and bleed valve enable the safe and clean handling of the thermofluid. An easy to open front hood allows for convenient cleaning of the air filter.

The high quality insulated 4-liter bath reservoir allows the use of up to 2.5 liters of thermofluid in the external cooling circle without refilling.



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- Temperature range: -20 °C - RT
- Temperature stability: 0,1 K
- Large easy to read LED display for pump speed and temperature- Large easy to read TFT display for temperature, pump speed, liquid level and safety temperature
- Visible fluid level display
- Drain valve and optimized bath base for safe and thorough emptying
- Easy accessible air filter
- Visual and acoustic safety warnings





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## Technical Data

|   |                          |
|---|--------------------------|
| Appliance type  | Recirculating chiller    |
| Cooling agent   | R134a                    |
| Cooling agent quantity [g]                              | 230                      |
| Cooling agent pressure max. [bar]                       | 20                       |
| Cooling capacity (@20°C) [W]                            | 400                      |
| Cooling capacity (@10°C) [W]                            | 370                      |
| Cooling capacity (@0°C) [W]                             | 320                      |
| Cooling capacity (@-10°C) [W]                           | 240                      |
| Cooling capacity (@-20°C) [W]                           | 130                      |
| Working temperature [°C]                                | -20 - room temp.         |
| Operating temperature min. [°C]                         | -20                      |
| Operating temperature max. (with external heating) [°C] | 80                       |
| Temperature display                                     | yes                      |
| Temperature control                                     | PT 100                   |
| Working temperature sensor                              | PT 100                   |
| Working temperature display                             | LED                      |
| Temperature stability DIN 12876 [±K]                    | 0.1                      |
| Display resolution [K]                                  | 0.1                      |
| Warning function optical                                | yes                      |
| Warning function acoustic                               | yes                      |
| Warning function excess temperature                     | yes                      |
| Sub-level protection                                    | yes                      |
| Filling volume [l]                                      | 1.4 - 4.0                |
| Pump type   | Pressure- / suction pump |
| Pump capacity adjustable                                | yes                      |
| Pump pressure max. (0 liters discharge flow) [bar]      | 0.3                      |
| Pressure pump (suction side) (0 liter flow) [bar]       | 0.2                      |
| Flow rate max. (0 bar back pressure) [l/min]            | 18                       |
| Calibration option                                      | yes                      |
| Technical data complies with the standard               | DIN 12876                |
| Permissible ON time [%]                                 | 100                      |
| Dimensions (W x H x D) [mm]                             | 220 x 475 x 525          |
| Weight [kg]   | 31.26                    |
| Permissible ambient temperature [°C]                    | 5 - 32                   |
| Permissible relative humidity [%]                       | 80                       |
| Protection class according to DIN EN 60529              | IP 21                    |
| RS 232 interface  | yes                      |
| USB interface   | yes                      |
| Voltage [V]   | 230 / 115                |
| Frequency [Hz]  | 50/60                    |
| Power input [W]   | 300                      |





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