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RC 2 control

/// Data Sheet

High efficient and temperature-stable circulating chiller with unique wireless controller. Designed for cooling applications up to $-30\text{ }^{\circ}\text{C}$ with powerful 400 W cooling capacity.

The speed-controlled PEEK pump allows an indirect continuous adjustment of the maximum pressure and flow rate. Due to its outstanding temperature stability of about $\pm 0.05\text{ K}$ (@ $-10\text{ }^{\circ}\text{C}$), the RC can handle even the most demanding applications.

Via the connection socket for an external PT 100 temperature sensor, it is possible to measure and control temperature directly in the working medium. An external PT 100 temperature sensor is included in scope of delivery.

With the wireless controller (WiCo), it is possible to operate the RC 2 safely and comfortably independent of the device



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position.

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.

- Temperature range: -30 °C - RT
- Temperature stability: 0,05 K
- 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
- Connection for external PT 100 temperature probe



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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]	-30 - room temp.
Operating temperature min. [°C]	-30
Operating temperature max. (with external heating) [°C]	80
Temperature display	yes
Temperature control	PT 100
Working temperature sensor	PT 100
Working temperature display	TFT
Safety temperature display	TFT
Temperature stability DIN 12876 [±K]	0.05
Connection for ext. temperature sensor	PT 100
Display resolution [K]	0.01
Display for operation with ext. sensor	yes
Warning function optical	yes
Warning function acoustic	yes
Warning function excess temperature	yes
Warning function insufficient 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]	28.5
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