

# IKA

designed for scientists



## RC 2 basic

/// Data Sheet

High-efficiency circulating chiller with powerful 400 W cooling capacity. Designed for cooling applications up to  $-20\text{ }^{\circ}\text{C}$ . 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  $\pm 0.1\text{ K}$  (@  $-10\text{ }^{\circ}\text{C}$ ), 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.
- 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	PID
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
Noise level [dB(A)]	52
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
Frequency [Hz]	50/60
Power input [W]	300