



### **HRC 2 basic**

/// Data Sheet

The compact refrigerated and heating circulator HRC 2 basic is renowned for its high energy efficiency, a working temperature powerful infinitelyrange from -20°C to 100°C and a variable pressure and suction pump. The on-demand and speed-controlled compressor reduces noise and operating costs.

The high-quality Isolation of the 4 I bath allows fast heating and reduces heat input when cooling.

Using the external temperature control circuit is possible for up to 2.5 I thermofluid without a refill.

The integrated hopper and drain valve ensure a safe and clean handling of the thermofluid. The easy-to-open front flap allows an easy cleaning of the cooling unit's air filter. There is a drain valve on the front side of the bath. A hose can be connected to empty the bath, so the user does not get in direct contact with the thermofluid.











- Speed-controlled refrigeration system with 400 W cooling capacity
- Speed-controlled pump make of PEEK: (0.5 bar; 22 l/min)
- 1500 W heating capacity (1200 W @115V)
- Digital level indicator
- Safety classification III (FL) according to DIN 12876
- Adjustable temperature safety circuit

#### Interfaces:

- RS 232
- USB



### **Technical Data**

Technical Data	
Appliance type	Circulation thermostat
Class designation acc. DIN 12876	III
Identification according to DIN 12876	FL
Cooling agent	R134a
Cooling agent quantity [g]	230
Cooling agent pressure max. [bar]	20
Heat output [W]	1200
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 - 100
Operating temperature min. [°C]	-20
Temperature display	yes
Temperature stability DIN 12876 (@+70°C) [K]	±0.1
Temperature stability DIN 12876 (@-10°C) [K]	±0.1
Temperature control	PID
Working temperature sensor	PT 100
Safety temperature sensor	PT1000
Working temperature display	LED
Safety temperature display	LED
Temperature stability DIN 12876 [K]	±0.1
Display resolution [K]	0.1
Set temperature resolution [K]	±0.1
Warning function optical	yes
Warning function acoustic	yes
Warning function excess temperature	yes
Adjustable safety circuit [°C]	0 - 110
Sub-level protection	yes
Over-level protection	yes
Filling volume [I]	1.4 - 4.0
Pump type	Pressure- / suction pump
Pump capacity adjustable	yes
Pump pressure max. (0 liters discharge flow) [bar]	0.5
Pressure pump (suction side) (0 liter flow) [bar]	0.25
Flow rate max. (0 bar back pressure) [I/min]	21
Pump connection	M16x1
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]	32.8
Permissible ambient temperature [°C]	5 - 32
Permissible ambient temperature [ 0]  Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	
RS 232 interface	
NO ZOZ INGITAGE	yes







USB interface	yes
Voltage [V]	115
Frequency [Hz]	50/60
Power input [W]	1500





