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HRC 2 GREEN basic

/// Data Sheet

The compact HRC 2 GREEN basic cooling and heating circulation thermostat impresses with a working temperature range from -30°C to 100°C and a powerful, continuously variable pressure and suction pump.

The on-demand and speed-controlled compressor reduces noise and operating costs. The use of the natural refrigerant R290 achieves high energy efficiency and meets current environmental requirements for refrigerants.

The high-quality isolation of the 4-liter bath allows particularly fast heating and reduces heat input at low temperatures.

Up to 2.5 liters of thermofluid are available for the external temperature control circuit without refilling.

The integrated hopper and drain valve ensure safe and clean handling of the thermofluid. The easy-to-open front flap allows convenient cleaning of the stainless steel mesh air filter of the refrigeration unit. The bath has a drain valve on the



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front. A hose can be connected to empty the bath, so the user does not get in direct contact with the thermofluid.

HRC 2 GREEN basic is the perfect peripheral device for bioreactors, synthesis reactors and applications in which energy is to be transferred to or from heat exchangers.

Features:

- Speed-controlled refrigeration system with 620 W cooling capacity
- Natural refrigerant R290
- Speed-controlled pump made of PEEK: (0.5 bar; 22 l/min)
- 1500 W heating capacity
- Digital level indicator
- Safety classification III (FL) according to DIN 12876
- Adjustable temperature safety circuit

Interfaces:

- RS 232
- USB

Scope of delivery

- HRC 2 GREEN basic
- Hose olive NW 8 (2 pcs.)
- Hose olive NW 12 (2 pcs.)
- Screwdriver (use for safety circuit)
- USB Cable - USB A to Micro-B, 2 m



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Technical Data

Appliance type	Circulation thermostat
Class designation acc. DIN 12876	III
Identification according to DIN 12876	FL
Cooling agent	R290
Cooling agent quantity [g]	79
Cooling agent pressure max. [bar]	21
Heat output [W]	1500
Cooling capacity (@20°C) [W]	620
Cooling capacity (@10°C) [W]	600
Cooling capacity (@0°C) [W]	480
Cooling capacity (@-10°C) [W]	350
Cooling capacity (@-20°C) [W]	200
Cooling capacity (@-30°C) [W]	80
Working temperature [°C]	-30 - 100
Operating temperature min. [°C]	-30
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 measurement, absolute accuracy Internal (adjustable by calibration) [K]	±0.5
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 [l]	1.4 - 4.0
Pump type	Pressure- / suction pump
Pump capacity adjustable	yes
Pump Speed min. [rpm]	2000
Pump Speed max. [rpm]	4000
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) [l/min]	21
Fluid maximum viscosity [mm²/s]	50
Pump connection	M16x1
Calibration option	yes
Technical data complies with the standard	DIN 12876
Permissible ON time [%]	100
Noise level [dB(A)]	58
Dimensions (W x H x D) [mm]	220 x 480 x 525
Weight [kg]	26



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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	Micro-USB
Voltage [V]	230
Frequency [Hz]	50/60
Power input [W]	1800



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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