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HBC 5 basic

/// Data Sheet

The HBC 5 basic is a heated bath circulator which heats up to a maximum temperature of 250 °C. It has a high quality stainless steel bath with a volume of 5 – 7 liters. The large surface of the radiator allows for an optimal heat exchange and a gentle heating process of the medium. The superior insulation leads to remarkably fast heat up times. The easy to clean bath has a front drain valve for safe emptying. In order to drain the bath, a hose is connected so there is no direct contact with the tempering fluid. With customer safety as our highest priority, the HBC 5 basic conforms to the highest safety classification III (FL) for use with flammable liquids according to DIN 12876.

- Temperature range: 20 – 250 °C

- Temperature accuracy: ± 0.02 K
- Integrated cooling coil
- Adjustable safety circuit
- Powerful, speed-controlled pressure/suction pump
- Push and turn buttons for an intuitive menu navigation
- Large easy to read LED display for pump speed and temperature
- Visual and acoustic safety warnings
- USB / RS 232 interface for PC control and documentation using labworldsoft®, as well as updating the device software through our website

Scope of delivery
•HBC 5 basic
•Hose olive NW 12 (2 pcs.)
•CC1
•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
Heat output [W]	2500
Working temperature [°C]	room temp. +10K @1000rpm - 250
Operating temperature min. (with external cooling) [°C]	-20
Temperature display	yes
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]	±0.02
Connection for ext. temperature sensor	PT 100
Display resolution [K]	0.1
Display for operation with ext. sensor	yes
Set temperature resolution [K]	0.1
Warning function optical	yes
Warning function acoustic	yes
Warning function excess temperature	yes
Adjustable safety circuit [°C]	0 - 260
Sub-level protection	yes
Over-level protection	yes
Filling volume [l]	5 - 7
Pump type	Pressure- / suction pump
Pump capacity adjustable	yes
Pump pressure max. (0 liters discharge flow) [bar]	0.61
Pressure pump (suction side) (0 liter flow) [bar]	0.45
Flow rate max. (0 bar back pressure) [l/min]	31
Pump connection	M16x1
Cooling coil connection	NW 8
Bath depth min. [mm]	150
Width bath opening [mm]	172
Depth bath opening [mm]	82
Calibration option	yes
Technical data complies with the standard	DIN 12876
Permissible ON time [%]	100
Dimensions (W x H x D) [mm]	275 x 406 x 500
Weight [kg]	17
Permissible ambient temperature [°C]	5 - 40
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]	2650