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HBC 10 basic

/// Data Sheet

The HBC 10 basic heated bath circulator heats up to a max. temperature of 250 °C. It has a high quality stainless steel bath with a volume of 7.5 – 10.5 liters. The large surface of the radiator allows for an optimum heat exchange and a gentle heating process of the medium. The superior insulation allows for a remarkably fast heat-up time. The easy to clean bath has a front drain valve for safe emptying. In order to drain the system, a hose is connected so there is no direct contact with the tempering fluid. With customer safety as our highest priority, the HBC 10 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 10 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]	8 - 11
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
Calibration option	yes
Technical data complies with the standard	DIN 12876
Permissible ON time [%]	100
Dimensions (W x H x D) [mm]	275 x 456 x 500
Weight [kg]	18
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