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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 |