# HBC 5 basic

The HBC 5 basic is a heated bath circulator which heats up to a maximum temperature of 200 °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 is UL certified and conforms to the highest safety classification III (FL) for use with flammable liquids according to DIN 12876.

- Temperature range: 20 - 200 °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
- External PT 100 temperature sensor included
- UL certified
- 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

Accessories: HF.Si.20.250.50A, HF.Si.20.200.50, UF.Si.N30.150.10LV, LT 5.20 Hose kit (2 pcs), LT 5.21 Hose kit insulated (2 pcs), H.PVC.8 Tube, H.PVC.12 Tube, H.SI.8 Tube, H.SI.12 Tube, H.FKM.8 Tube, H.FKM.12 Tube, H.PUR.8.R Tube, H.PUR.12 Tube, ISO.8, ISO.12, Ball valve M16x1, mechanic fluid level controller, elbow tube 90°, Olive for DN 6 hoses (2 pcs.), Olive for DN 8 hoses (2 pcs.), Olive for DN 12 hoses (2 pcs.), Olive for DN 10 hoses (2 pcs.), Adapter NPT 1/4 (2 pcs.), Adapter NPT 1/2 (2 pcs.), Adapter NPT 3/4 (2 pcs.), lock nut (2 pcs.), stopper (2 pcs.), PT 100.30 Temperature sensor

| Technical Data | |
|---|---|
| Appliance type | circulation thermostat |
| Class designation acc. DIN 12876 | III |
| Identification according to DIN 12876 | FL |
| Heat output  [W] | 2500 |
| Operating temperature min.  [°C] | -20 |
| Operating temperature max.  (with external heating) [°C] | 200 |
| Working temperature min.  [°C] | room temp. +10K @1000rpm |
| Working temperature max.  [°C] | 200 |
| Temperature display | yes |
| Temperature control | PT 100 |
| 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  [±°C] | 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 |
| Warning function insufficient temperature | no |
| Adjustable safety circuit min.  [°C] | 0 |
| Adjustable safety circuit max.  [°C] | 260 |
| Sub-level protection | yes |
| Over-level protection | yes |
| Filling volume min.  [l] | 5 |
| Filling volume max.  [l] | 7 |
| Pump type | Pressure- / suction pump |
| Pump capacity adjustable | yes |
| Pump pressure max. (0 liters discharge flow)  [bar] | 0.45 |
| Pressure pump (suction side) (0 liter flow)  [bar] | 0.35 |
| Flow rate max. (0 bar back pressure)  [l/min] | 26 |
| 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 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 | yes |
| Voltage  [V] | 230 / 100 - 115 |
| Frequency  [Hz] | 50/60 |
| Power input  [W] | 2650 |
| **Ident. No.** | **0004125000** |