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HBC 5 control

/// Data Sheet

The HBC 5 control heated bath circulator heats up to a max. temperature of 250 °C. It has a high quality stainless steel bath with a volume of 5 – 7 liters. The TFT display is in color and illustrates all relevant parameters. With just one key, the internal temperature regulation can be switched to external temperature regulation. The large surface of the radiator allows for an optimum heat exchange and a gentle heating process of the medium. Push and turn buttons allow for intuitive menu navigation. The menu comes in different languages. The 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 the unique WiCo Wireless Controller, the unit can be operated from a distance of up to 10 meters/30 ft.

- Temperature range: 20 – 250 °C
- Temperature accuracy: ± 0.01 K
- Wireless Controller (WiCo) enables safe operation, e.g. outside of a closed fume hood
- Large easy to read TFT display for temperature, pump speed, filling level and safety temperature.
- Integrated cooling coil
- Powerful, speed controlled pressure/suction pump
- Adjustable safety circuit
- Safety classification III (FL) according to DIN 12876
- Timer function: 0 – 99 h 59 min
- Visual and acoustic safety warning
- Connection of a magnetic valve possible
- 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 control
•Hose olive NW 12 (2 pcs.)
•CC1
•Screwdriver (use for safety circuit)
•OS 1.0 power supply (for WiCo)
•USB Cable - USB A to Micro-B, 2 m
•USB 2.0 cable Micro A – Micro B

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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	TFT
Safety temperature display	TFT
Temperature stability DIN 12876 [K]	±0.01
Connection for ext. temperature sensor	PT 100
Display resolution [K]	0.01
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
Multi-Interface	yes
Alarm output (potential-free contact) max. [V AC/DC]	30
Alarm output (potential-free contact) max. [A]	1
Solenoid valve output [VDC]	24
Solenoid valve output max. [A]	0.8
Standby input [VDC]	5
Dimensions (W x H x D) [mm]	275 x 406 x 500
Weight [kg]	17.3
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 21

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RS 232 interface	yes
USB interface	Micro-USB
Voltage [V]	230
Frequency [Hz]	50/60
Power input [W]	2650
Batteries included with the product?	yes
Battery Cell Type	custom LiPo/ CR2032
Number of Batteries	2
Battery Weight [g]	55 / 3
How is the Battery packaged	within appliance
Battery Energy Content [Wh]	7.4 / 0.69
Battery Voltage [V]	3.7 / 3