HB120

Heating Circulator with magnetic coupled circulation pump. Heating, housing and pump of stainless steel. Use for external open systems. With adjustable overtemperature protection according to DIN 12876.

Pilot ONE:
The Pilot ONE controller with pioneering technology and advanced control functions brings numerous advantages to routine work. The extensive features list includes a brilliant 5,7“ TFT touchscreen display, USB and network connections, an integrated technical glossary and language support in 13 languages (EN, DE, FR, IT, ES, RU, ZH, PT, JA, CS, PL, KO, TR). The Pilot ONE has a convenient navigation system with easily remembered icons and menu categories which are colour sorted to make routine work simpler. Thanks to a favourites menu and One-Click operator guidance all important information is always just a few keystrokes away. Software wizards also help you to set up, ensuring correct settings. The USB port allows connection of the system to a PC or notebook. Together with the Spy software, requirements such as remote control or data transmission are easily achieved in a cost-effective manner. Network integration is easy with the internet port.

The range of functions can be expanded very easily via E-grade at any time by entering a unit specific upgrade code:

E-grade "Exclusive": TAC (True Adaptive Control) - self optimising internal and cascade control, selectable temperature control mode (Internal/Process), programmer with 3 programs (max. 15 steps), ramp function (linear), 5 point calibration, scalable graphic display, favourites menu, display resolution 0,01 K.

E-grade "Professional": Programmer with 10 programs (max. 100 steps), ramp function for temperature gradients (linear and non-linear), 2nd set point, user menus (Administrator level), calendar start.

4-year warranty - registration required.

Please note:
The machine is developed exclusively for external open operation, and does not possess an expansion tank. The filling of the thermofluid, and allowance for the temperature dependent volume changes is only possible via an externally connected application.

Technical data according to DIN 12876

Operating temperature range	60...250 °C
Resolution of display	0,01 K
Temperature stability at 70°C	0,1 K
temperature set point / display	5,7" colour Touchscreen
Absolute accuracy	setup for calibration
Internal temperature sensor	Pt100
External sensor	Pt100
Interface digital	Ethernet, USB (Host u. Device), RS232
Safety classification	II / FL
Heating power at 460V	12 kW
Heating power at 400V	12 kW
Heating power at 380V	10,5 kW
Circulation pump:	MK pump
max. delivery	100 l/min
max. delivery pressure	3,5 bar
Pump connection	M30x1,5 male
Overall dimensions WxDxH	479x539x695 mm
Pressure equipment category	Art. 4.3 PED
Degree of Protection	IP20
Net weight	88 kg
Power supply (3 Phase)	380-460V 3~ 50/60Hz
max. current (3 Phase)	20 A
Fuse (3 phase)	3x25A
min. ambient temperature	5 °C
max. ambient temperature	40 °C

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Technical details and dimensions are subject to change. No liability is accepted for errors or omissions. Illustrations can deviate from the original.

Included Accessories:
mini-usb cable #54949, Curved face union to DIN 3863, captive nut to DIN 3870,

Optional accessories:
temperature control / - connection hoses, external sensor thermofluids, further accessories, etc.: see catalog.

Note: Pump connections: 60° "Y" arrangement to DIN 3863, pipework/flexible tempering hoses: With union to DIN 3863.

Output data valid for: Room temperature 20°C

In accordance with EN60034-1 the following voltage and frequency tolerances are valid:
Voltage + / - 10%, as long as the frequency tolerance does not run in the opposite direction.
Example: -10% voltage and +3% frequency -> not allowed !
-10% voltage and -3% frequency -> allowed.

Information to Electromagnetic compatibility:
Classification (disturbance) to EN55011: Class A, Group 1
Attention: leakage current > 3,5mA

Standard delivery conditions - Power cable configuration:
1. Single / two-phase devices (100V to 240V) --> with power cable and country-specific plug (please specify when ordering)
2. Three-phase devices with current consumption less than 63A --> with cable, without plug
3. Three-phase devices with current consumption greater than 63A --> without cable, without plug

Note for all HotBox models:

These devices do not have an active refrigeration system. The ability to reach the min. temperature 60°C, depends on how far the ambient temperature is below 60°C, and the heat loss of the application.

The heat loss must be between 0.1kW and 2.8kW, depending on the HB model, to reach the minimum temperature of 60°C.

** Please respect space requirements. See operating conditions at www.huber-online.com