

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

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.

Pilot ONE:

The new 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 11 languages (EN, DE, FR, IT, ES, RU, CN, PT, JP, CZ, PL). 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.

3-2-1 warranty - registration required.

### Technical data according to DIN 12876

Operating temperature range	45...250 °C	
temperature set point / display	5,7" colour Touchscreen	
Absolute accuracy	setup for calibration	<b>Order-No.: 2030.0001.01</b>
Internal temperature sensor	Pt100	
External sensor	Pt100	
Interface digital	Ethernet, USB (Host u. Device), RS232	
Safety classification	Class II / FL	
Heating power	4,5 kW	
Circulation pump:		
max. delivery	55 l/min	
max. delivery pressure	0.9 bar	
Delivery at 0,5 bar	18 l/min	
Pump connection	M24x1,5 male	
min. filling capacity	3,5 l	
Overall dimensions WxDxH	185x440x405 mm	
Net weight	21 kg	
Power supply (3 Phase)	400V 3~N 50Hz	
max. current (3 Phase)	13 A	
Fuse (3 phase)	3x16 A	
min. ambient temperature	5 °C	
max. ambient temperature	40 °C	

from Serial-No.:

1.0/13

Technical details and dimensions are subject to change. No liability is accepted for errors or omissions.

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Accessories and periphery: mini-USB cable #54949\*, Hose coupling nom. dia. 12\*, dummy plugs, sleeve nuts thread M16x1\*, connection tubes

\* standard equipment

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.

\*\* Please respect space requirements. See operating conditions at [www.huber-online.com](http://www.huber-online.com)