

Heating Circulator for closed systems. Closed circulation pump made of stainless steel with cooled shaft seal with free shaft, without bearing in the liquid. Automatical switch-over and capacity adaption for heating. Expansion tank (not thermoregulated) for closed systems. Moistened parts and housing made of stainless steel. With adjustable overtemperature protection according to DIN 12876. Powerful variable speed pump (soft start) with integrated pressure control with optional external pressure sensor.

#### 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 13 languages (EN, DE, FR, IT, ES, RU, CN, PT, JP, CZ, 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.

#### further functions:

E-grade Professional installed as standard, TAC (True Adaptive Control) - self optimising internal and cascade control, selectable temperature control mode (Internal/Process), programmer with 10 programs (max. 100 steps), ramp function (linear and non-linear), 5 point calibration, scalable graphic display, favourites menu, display resolution 0,01 K, integrated technical glossary, 2nd set point, user menus (Administrator level), calendar start, wallpaper selection.

3-2-2 warranty - registration required.

#### Technical data according to DIN 12876

Operating temperature range	65... 300 °C
Temperature stability at 70°C	0,02 K
temperature set point / display	5,7" colour Touchscreen
Resolution of display	0,01 K
Internal temperature sensor	Pt100
External sensor	Pt100
Interface digital	Ethernet, USB (Host u. Device), RS232
Alarm message	optic, acoustic, relay
Safety classification	Class III / FL
Heating power at 240V	3 kW
Heating power at 230V	3 kW
Heating power at 220V	3 kW
Heating power at 208V	3 kW
Heating power at 200V	2,7 kW
Circulation pump:	
max. delivery	45 l/min
max. delivery pressure	0.9 bar
Pump connection	M24x1,5 male
max. permissible kin. viscosity	50 mm <sup>2</sup> /s
min. filling capacity	1,45 l
Filling capacity expansion tank	2 l
Overall dimensions WxDxH **	240x427x393 mm
Net weight	23 kg
Power supply requirement	200-240V 1~/2~ 50/60Hz
max. current	15,5 A
Fuse	16 A
Degree of Protection	IP20
min. ambient temperature	5 °C
max. ambient temperature	40 °C



**Order-No.: 1088.0001.01**

**from Serial-No.:** 369994 **1.0/20**

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, cover expansion vessel, adapter M16x1 m to M24x1,5 f,

## Technical data according to DIN 12876

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### Optional accessories:

Interfaces, E-grades®, temperature control / - connection hoses, thermofluids, further accessories, etc.: see catalog.

Note: Pump connections: Bore shape Y (60°) according to DIN 3863, pipework/flexible tempering hoses: Ball socket according to DIN 3863, sleeve nut according to DIN 3870.

Output data valid for: Room temperature 20° C

in accordance with EN60034-1 the following voltage and frequency tolerances are valid:

Voltage + / - 5% with a simultaneous frequency tolerance of + / - 2%

Example -5% voltage and + 2% frequency -> not allowed!

-5% voltage and - 2% frequency -> allowed

### Information to Electromagnetic compatibility:

Classification (disturbance) to EN55011: Class A, Group 1

### Standard delivery conditions - Power cable configuration:

1. Single-phase devices (230V/115V) -> with cable and plug
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

This equipment is compliant to US-SNAP and all applicable EU laws. The US-SNAP end-use for this equipment is the industrial process refrigeration. Certification by a Notified Body upon request.

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