

Heat Exchanger Unit with circulation pump (industrial plastic material). Housing, atmospheric open expansion tank and external plate heat exchanger (copper soldered), made of stainless steel. With digital level indicator. For externally closed applications.

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.

Technical data according to DIN 12876

Operating temperature range (secondary side)	(3)...(95) °C
Temperature stability	0,1 K
temperature set point / display	5,7" colour Touchscreen
Internal temperature sensor	Pt100
Sensor external connection	Pt100
Interface digital	Ethernet, USB (Host u. Device), RS232
Alarm message	optic, acoustic, relay
Safety classification	I / NFL
Cooling power with at 20°C	Water 3 kW
Circulation pump	Immersion pump
max. delivery	33 l/min
max. delivery pressure	0,7 bar
Pump connection	M16x1 male
max. permissible kin. viscosity	50 mm ² /s
Cooling water connection	G1/2 male
Consumption at water 10°C, flow 20°C	450 l/h
min. cooling water differential pressure	2 bar
max. cooling water pressure	6 bar
min. filling capacity	3,5 l
Volume of expansion	2 l
Overall dimensions WxDxH **	280x491x414 mm
Net weight	21 kg
Power supply requirement	200-240V 1~/2~ 50/60Hz
max. current	1 A
min. Fuse	10A
max. Fuse	16A
Degree of Protection	IP20
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:

Technical data according to DIN 12876

Optional accessories:

Com.G@te, temperature control / - connection hoses, further accessories, etc.: see catalog.

Output data valid for: Room temperature 20° C, cooling water inlet 10° C and 2 bar differential pressure between cooling water inlet and - outlet. This temperature control unit has been designed to operate with cooling water intake temperature between 5° C and 20° C. When cooling water temperatures fall below the condensation point, it is essential to insulate the cooling water pipes in the unit.

Materials used in the cooling water circuit include; copper, Stainless steel 1.4401, MS, PA, PPE, PTFE and EPDM. Please use suitable cooling water.

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

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

Special Case: Acetone and Polyglycol: The plastic pump is not resistant against acetone and polyglycols (depending on the manufacturer). It is recommended that water is mixed with either glysantine or ethylene glycol for freeze protection. A more resistant plastic is available on request at an additional cost.

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