

High Temperature Thermostat using the unistat principal with Plug & Play technology. Minimized volume, shortest possible heating times, hydraulically closed: No oil vapour. With adjustable overtemperature protection according to DIN 12876. Housing and heat exchanger made of stainless steel. 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.

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.

4-year warranty - registration required.

- Expansion tank lid can be fixed in place. The lid has connections for a nitrogen blanket (maximum pressure 0,2 bar)
- Heating and over temperature protection for expansion tank and pump chamber

## Cooling water conditions for expansion vessel:

Cooling water temperature: 15° C - 20° C  
Cooling water differential pressure: min. 1bar  
max. cooling water pressure: 6bar

## Technical data according to DIN 12876

|                                 |                                       |                                |
|---------------------------------|---------------------------------------|--------------------------------|
| Operating temperature range     | 80... 425 °C                          |                                |
| Temperature stability at 70°C   | 0,05 K                                |                                |
| temperature set point / display | 5,7" colour Touchscreen               | <b>Order-No.: 1038.0007.01</b> |
| Resolution of display           | 0,01 K                                |                                |
| Internal temperature sensor     | Pt100                                 |                                |
| External sensor                 | Pt100                                 |                                |
| Interface digital               | Ethernet, USB (Host u. Device), RS232 |                                |
| digital input                   | ECS ONE                               |                                |
| digital output                  | POKO ONE                              |                                |
| Alarm message                   | optic, acoustic, relay                |                                |
| Safety classification           | III / FL                              |                                |
| Heating power                   | 6 kW                                  |                                |
| Circulation pump:               |                                       |                                |
| max. delivery                   | 45 l/min                              |                                |
| max. delivery pressure          | 0,9 bar                               |                                |
| Pump connection                 | M24x1,5 male                          |                                |
| Cooling water connection        | G1/2 male                             |                                |
| min. filling capacity           | 1,45 l                                |                                |
| Filling capacity expansion tank | 2,8 l                                 |                                |
| Power supply (3 Phase)          | 400V 3~ 50Hz                          |                                |
| Pressure equipment category     | Art. 4.3 PED                          |                                |
| Degree of Protection            | IP20                                  |                                |
| min. ambient temperature        | 5 °C                                  |                                |
| max. ambient temperature        | 40 °C                                 |                                |

from Serial-No.:

1.0/24

## Technical data according to DIN 12876

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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,

### Optional accessories:

Data communication, 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

### 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

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