Unistat T402

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 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.

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.

The dimensions specified below are approximate and may be subject to change.

- 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
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	4,8 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
Overall dimensions WxDxH **	510x420x770 mm
Power supply (3 Phase)	208V 3~ 60Hz
Pressure equipment category	Art. 4.3 PED
Degree of Protection	IP20
min. ambient temperature	5 °C

Order-No.: 1038.0008.01

Technical data according to DIN 12876

max. ambient temperature	40 °C

from Serial-No.: **1.0/24**

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, heat transfer fluid, 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

Note on all Unistat T models:
These devices do not have an active refrigeration system.
Water cooled: Target temperatures (down to the minimum 65°C) can only be achieved with appropriate heat loss from the application or suitable water cooling.
Air cooled: The heat loss must be between 0.1kW and 2.8kW, depending on the unit. In order to reach 65°C the ambient temperature must be well below 60°C.

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