

Unistat T320w HT

Heating Circulator with electronic level indicator for closed systems and open baths. Powerful - regulated - cooling, saves water, unpressurised. Stepper motor controlled HT cooler (High temperature cooler) and water cooled heat exchanger. Water exit temperature limited to 55°C. No steam exits on cooling with circulation temperatures over 100°C. Magnetic coupled circulation pump made of stainless steel. Automatical capacity adaption for heating. Expansion tank (not thermoregulated) for closed systems, lockable for open baths. Heat exchanger, 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.

4-year warranty - registration required.

Technical data according to DIN 12876

Minimum temperature with water cooling15 °Ctemperature set point / display0,01 KInternal temperature sensorPt100Sensor external connectionPt100Interface digitalEthernet, USB (Host u. Device), RS232digital inputECS ONEdigital outputPOKO ONEAlarm messageoptic, acoustic, relaySafety classificationIII / FLHeating power at 460V12 kWHeating power at 400V12 kWHeating power at 400V10 kWCooling power10 kWColong power10 kWcirculation pump:MK pumpmax. delivery pressure3,5 barDelivery at 1,0 bar21 //minDelivery at 2,0 bar30 //minDelivery at 2,0 bar20 //minDelivery at 3,0 bar20 //minDelivery at 3,0 bar20 //minPelivery at 3,0 bar20 //minDelivery at 3,0 bar20 //minDelivery at 3,0 bar20 //minPelivery at 3,0 bar20 //minPelivery at 3,0 bar20 //minPelivery at 3,0 bar20 //minPelivery at 3,0 bar20 //minDelivery at 3,0 bar20 //minPelivery at 2,0 bar63 // malemax. coling water consumption at water temp. 15°C640 //hCooling water consumption at water temp. 15°C640 //h </th <th>Operating temperature range</th> <th>65300 °C</th> <th></th> <th></th>	Operating temperature range	65300 °C		
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max. cooling water pressure 6 bar	Cooling water connection	G3/4 male		
	min. cooling water differential pressure	1 bar		
min. filling capacity 7 I	max. cooling water pressure	6 bar		
	min. filling capacity	71		

Technical data according to DIN 12876

Filling capacity expansion tank	24	
Power supply (3 Phase)	380-460V 3~ 50/60Hz	
Degree of Protection	IP20	
max. ambient temperature	40 °C	
min. ambient temperature	5 °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.

mini-USB Kabel #54949

Optional accessories:

Com.G@te, Software, 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, cooling water inlet 15°C and 1 bar differential pressure between cooling water inlet and outlet. This temperature control unit has been designed to operate with cooling water up to 20°C. As the cooling water temperature increases, drop in the cooling power should be expected, and also an increased cooling water flow rate possible. Materiels 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

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