

Unistat tango w



Hydraulically sealed Refrigerated Heating Circulator with water-cooled refrigerating unit. Evaporator and housing made of stainless steel. With atmospheric open expansion tank and optical level indicator. As well as for externally closed and also externally open applications.

High system performance (watt/litre) due to minimized internal volume. No HTF vapour and no moisture absorption because the expansion tank is thermally passive. For external open baths the expansion tank will be blocked off. This means that the thermostat is atmospherically sealed and can be located below or above the level of the application.

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 Temperature stability at -10°C temperature set point / display

temperature set point / display

Resolution of display Internal temperature sensor Sensor external connection

Interface digital

digital input digital output Alarm message Safety classification Heating power convertible Cooling power with

at 250°C at 200°C at 100°C

Cooling power with

at 0°C at -20°C at -40°C

Refrigeration machine

Refrigerant Refrigerant quantity Gas warning sensor Circulation pump: max. delivery

max. delivery pressure
Pump connection

max. permissible kin. viscosity
Cooling water connection
Consumption at water 15°C, flow 0°C
Consumption at water 15°C, flow -20°C
min. cooling water differential pressure

-45...250 °C

0,01 K

5,7" colour Touchscreen

0,01 K Pt100 Pt100

Ethernet, USB (Host u. Device), RS232

ECS ONE POKO ONE

optic, acoustic, relay Class III / FL

1,5kW or 3,0kW Thermooil 0,7 kW 0,7 kW 0,7 kW

Ethanol 0,7 kW 0,4 kW 0,06 kW

water-cooled, natural

refrigerant R290 0,08 kg without

55 l/min 0.9 bar M24x1,5 male 50 mm²/s G1/2 male 80 l/h 42 l/h 3 bar



Order-No.: 1000.0021.01

Technical data according to DIN 12876

from Serial-No.:	170165	1.1/13
max. ambient temperature	40 °C	
min. ambient temperature	5 °C	
Degree of Protection	IP20	
	3~N 50Hz	
Power supply convertible	230V 1~ 50Hz* or 400V	
Fuse (3 phase)	3x16 A	
max. current (3 Phase)	10 A	
Fuse (1 phase)	16 A	
max. current	10,5 A	
Net weight	56 kg	
Overall dimensions WxDxH **	426x270x631 mm	
Filling capacity expansion tank	2,8	
min. filling capacity	1,5 l	
max. cooling water pressure	6 bar	

Technical details and dimensions are subject to change. No liability is accepted for errors or omissions. Illustrations can deviate from the original.

Accessories and periphery: mini-USB cable #54949*, E-grade "Professional" #9496*, hose connection for G1/2 male*Adaptor M16x1 male to M24x1,5 female*, E-grade "Explore" #10495, RS232 adapter cable #55018, SpyLight-Software, Com.G@te Namur, PC-Com.G@te-cabel, Holder for Com.G@te #10019; Com.G@te-extension cable: upon request, Thermofluid, external pressure sensor, metal hoses M16x1 or M24x1,5, braided hoses for cooling water, external sensor, connecting cable, isolation sleeve for external open applications, float switch in sight glass for extended security.

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 3 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 + / - 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

Alternative (factory set) power supply - please quote configuration at time of ordering.

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^{*} standard equipment

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