

# Unistat 1005w

Refrigerated Heating Circulator with water-cooled cooling machine and optical level indicator.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 and cooling machine. Copper soldered evaporator, moistened parts and housing made of stainless steel. As well as for externally closed and also externally open applications. 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.

3-2-2 warranty - registration required.

# Technical data according to DIN 12876

temperature set point / display5,Resolution of display0,Internal temperature sensorPtSensor external connectionPtInterface digitalEtDeDedigital inputECdigital outputPCAlarm messageop	01 K 7" colour Touchscreen 01 K 100 hernet, USB (Host u. evice), RS232 CS ONE DKO ONE
Resolution of display0,0Internal temperature sensorPtSensor external connectionPtInterface digitalEtDeDedigital inputECdigital outputPCAlarm messageop	01 K 100 100 hernet, USB (Host u. avice), RS232 CS ONE
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De digital inputDe ECdigital outputPCAlarm messageop	evice), RS232
digital output PC Alarm message op	
Alarm message op	
Safety classification Cl	tic, acoustic, relay
	ass III / FL
Heating power 2 l	KW 🔰
Cooling power with Th	hermooil
at 100°C 1,4	5 kW
at 50°C 1,5	5 kW
at 20°C 1,4	5 kW
Cooling power with Kr	yothermal S
	5 kW
at -20°C 1,5	5 kW
at -40°C 1,5	5 kW
at -60°C 1,4	4 kW
at -80°C 1,4	4 kW
at -100°C 1	kW Order-No.: 1062.0002.01
at -120°C 0,2	2 kW
	ater-cooled, CFC- and CFC-free
Refrigerant R4	152A
Refrigerant 2nd stage R2	23
Refrigerant quantity 2nd stage 0,	785 kg
Refrigerant 3rd stage R1	14
Refrigerant quantity 3rd stage 0,0	6 kg
Circulation pump:	
max. delivery 30	) I/min
max. delivery pressure 0.9	9 bar

## Technical data according to DIN 12876

Pump connection	M30x1,5 male	
max. permissible kin. viscosity	50 mm²/s	
Cooling water connection	G1/2 male	
Consumption at water 15°C, flow 0°C	300 l/h	
min. cooling water differential pressure	3 bar	
max. cooling water pressure	6 bar	
min. filling capacity	3,6 l	
Filling capacity expansion tank	81	
Overall dimensions WxDxH **	700x804x1520 mm	
Power supply factory configured (3 Phase)	400V 3~ 50Hz *	
Degree of Protection	IP20	
min. ambient temperature	5 °C	
max. ambient temperature	40 °C	

### from Serial-No.:

1.0/19

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\*, E-grade "Explore" #10495, SpyLight-Software, hose connection for G1/2 male,\* Com.G@te Namur, PC-Com.G@te-cabel, Holder for Com.G@te #10018, Com.G@te-extension cable: upon request, RS232 adapter cable #55018, Thermofluid, external pressure sensor, metal hoses, 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.

#### \* standard equipment

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

Standard delivery conditions - Power cable configuration:

- 1. Single-phase devices (230V/115V) -> with cable and plug
- 2. Three-phase devices with current consumption less than  $63A \rightarrow$  with cable, without plug
- 3. Three-phase devices with current consumption greater than 63A -> without cable, without plug

This unit is US-SNAP and applicable EU law compliant.

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