# huber

## **Unistat P620w**



Refrigerated Heating Circulator with water-cooled cooling machine and electronical level indicator. Magnetic coupled circulation pump made of stainless steel. 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.

Unistat "P" Models: Circulating pumps with a high discharge pressure for applications with high pressure drops, e.g. in the Flow-Through chemistry or in the Semicon industry.

#### Pilot ONF

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:

Delivery at 4,0 bar

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

-60...200 °C Operating temperature range Temperature stability at -10°C 0.01 K temperature set point / display 5,7" colour Touchscreen Order-No.: 5016.0002.01 Resolution of display 0.01 K Internal temperature sensor Pt100 Sensor external connection Pt100 Interface digital Ethernet, USB (Host u. Device), RS232 **ECS ONE** digital input digital output **POKO ONE** Interface analog optional Alarm message optic, acoustic, relay Safety classification III / FL 12 kW Heating power Cooling power with Thermooil at 200°C 12 kW at 100°C 12 kW at 20°C 12 kW Cooling power with Ethanol at 0°C 12 kW at -20°C 12 kW at -40°C 5.6 kW at -60°C 1.4 kW Refrigeration machine water-cooled, natural refrigerant Refrigerant (ASHRAE, GHS) R-1270 (A3, H220) Global Warming Potential (GWP) Circulation pump: MK pump max. delivery 201 l/min max. delivery pressure 5,3 bar Delivery at 1,0 bar 179 I/min Delivery at 2,0 bar 154 I/min Delivery at 3,0 bar 124 I/min

87 I/min

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Delivery at 5.0 bar 42 I/min M38x1.5 male Pump connection max. permissible kin. viscosity 100 mm<sup>2</sup>/s Cooling water connection G3/4 male min. cooling water differential pressure 1 bar max. cooling water differential pressure 4 bar max. cooling water pressure 6 bar max. System pressure 6 bar min. filling capacity 8,9 I Filling capacity expansion tank 19,9 I Overall dimensions WxDxH \*\* 918x963x1771 mm Power supply factory configured (3 Phase) 400V 3~ 50Hz Pressure equipment category IP20 Degree of Protection min. ambient temperature 5°C 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, E-grade "Professional" #9496, Com.G@te D (not applicable when ordering Com.G@te D/A), hose connection for G3/4 male,

#### Optional accessories:

E-grade "Explore" #10495, SpyLight-Software, Com.G@te D/A, RS232 adapter cable #55018, Thermofluid, external pressure sensor, metal hoses, braided hoses for cooling water, external sensor, connecting cable, 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.

Note: Connection option for extract ventilation

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 + / - 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 / 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

This equipment is compliant to US-SNAP and all applicable EU laws. The US-SNAP end-use for this equipment is the industrial process refrigeration. Certification by a Notified Body upon request.

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