

Unistat 520w-FB

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. Optional pump pressure control via controlled bypass.

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 11 languages (EN, DE, FR, IT, ES, RU, CN, PT, JP, CZ, PL). 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:

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.

3-2-1 warranty - registration required.

Technical data according to DIN 12876

| Operating temperature range Temperature stability at -10°C temperature set point / display Resolution of display Internal temperature sensor Sensor external connection Interface digital digital input digital output Alarm message Safety classification | -55250 °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 | | |
|--|---|------------|--------------|
| Heating power Cooling power with | 6 kW Thermooil | | 4000 0000 04 |
| at 200°C | 5 kW | Order-No.: | 1022.0008.01 |
| at 100°C | 5 kW | | |
| Cooling power with | Ethanol | | |
| at 0°C | 6 kW | | |
| at -20°C | 4,2 kW | | |
| at -40°C | 1,5 kW | | |
| at -50°C | 0,65 kW | | |
| Refrigeration machine | water-cooled, CFC- and HCFC-free | | |
| Refrigerant | R507 | | |
| Refrigerant quantity | 1,1 kg | | |
| Circulation pump: | | | |
| max. delivery | 60 l/min | | |
| max. delivery pressure | 1.5 bar | | |
| Delivery at 0,4 bar | 40 l/min | | |
| Delivery at 0,5 bar | 35 l/min | | |
| Delivery at 1,0 bar | 25 l/min | | |
| 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 | 280 l/h | | |
| min. cooling water differential pressure | 3 bar | | |
| max. cooling water pressure | 6 bar | | |

Technical data according to DIN 12876

| from Serial-No.: | | 1.0/12 |
|---------------------------------|----------------|--------|
| max. ambient temperature | 40 °C | |
| min. ambient temperature | 5 °C | |
| Protection class | IP20 | |
| Power supply (3 Phase) | 208V 3~ 60Hz | |
| Net weight | 202 kg | |
| Overall dimensions WxDxH ** | 920x639x740 mm | |
| Filling capacity expansion tank | 12,5 | |
| min. filling capacity | 6,4 I | |

from Serial-No.:

Technical details and dimensions are subject to change. No liability is accepted for errors or omissions.

Accessories and periphery: mini-USB cable #54949*, 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, VPC-Bypass, external sensor, connecting cable, 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%

-5% voltage and + 2% frequency -> not allowed! Example

-5% voltage and - 2% frequency -> allowed

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