huber

Unistat 630w

Refrigerated Heating Circulator with water-cooled cooling machine and optical 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. Optional pump pressure control via controlled bypass.

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:

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

Resolution of display Internal temperature sensor

Sensor external connection

Interface digital

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

at 200°C at 100°C at 50°C

Cooling power with

at 0°C at -20°C at -40°C at -60°C

Refrigeration machine

Refrigerant (ASHRAE, GHS) Refrigerant quantity

Circulation pump: max. delivery

max. delivery pressure
Delivery at 0,5 bar
Delivery at 1,0 bar
Delivery at 1,5 bar
Delivery at 2,0 bar
Pump connection

max. permissible kin. viscosity
Cooling water connection

-60...200 °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 24 kW Thermooil 22 kW 22 kW 22 kW Ethanol 21 kW 20 kW 10,5 kW

2.5 kW

water-cooled, CFC- and

HCFC-free R452A (A1, H280)

4,4 kg
MK pump
210 l/min
2.5 bar
193 l/min
166 l/min
134 l/min
92 l/min
M38x1,5 male
50 mm²/s
G3/4 male



Order-No.: 1046.0008.01

Technical data according to DIN 12876

from Serial-No.:	387919	1.0/20
max. ambient temperature	40 °C	
min. ambient temperature	5 °C	
Degree of Protection	IP20	
Fuse (3 phase)	3x50 A	
max. current (3 Phase)	45 A	
Power supply factory configured (3 Phase)	400V 3~ 50Hz	
Net weight	734 kg	
Overall dimensions WxDxH **	950x1005x1650 mm	
Filling capacity expansion tank	26 I	
min. filling capacity	11,4	
max. cooling water pressure	6 bar	
min. cooling water differential pressure	1 bar	
Consumption at water 15°C, flow 0°C	910 l/h	

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 G3/4 male, * Com.G@te Namur, PC-Com.G@te-cable, 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, 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 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-phase devices (230V/115V) -> with cable and plug
- 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

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^{*} standard equipment