

Unistat 920w



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. 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.

4-year warranty - registration required.

The dimensions specified below are approximate and may be subject to change.

Technical data according to DIN 12876

Temperature stability at -10°C0,01 Ktemperature set point / display0,01 KInternal temperature sensor0,01 KInternal temperature sensorP1100Sensor external connectionP1100Interface digitalEthernet, USB (Host u. Device), RS232digital inputECS ONEAlarm messageoptic, acoustic, relaySafety classificationIII / FLHeating power12 kWCooling power withThermooilat 20°C11 kWat 20°C11 kWat 20°C11 kWat 20°C11 kWat -20°C11 kWat -20°C10 kWat -20°C1, k	Operating temperature range	-90200 °C		
Resolution of display0.01 KInternal temperature sensorPt100Sensor external connectionPt100Interface digitalEthernet, USB (Host u. Device), RS232digital inputECS ONEdigital inputCS ONEdigital outputPOKO ONEAlarm messageoptic, acoustic, relaySafety classificationIII / FLHeating power12 kWCooling power withThermooilat 20°C11 kWat 20°C11 kWcooling power withEthanolat 20°C11 kWat 20°C11 kWcolored18 kWcolored18 kWcolored18 kWcolored8 kWat -0°C18 kWat -0°C18 kWrefrigeration machinewater-cooled, natural refrigerant refrigerant (ASHRAE, GHS)Refrigerant (ASHRAE, GHS)R-1270 (A3, H220)Global Warning Potential (GWP)0Refrigerant (ASHRAE, GHS)R-1270 (A3, H280)Global Warning Potential (GWP)0,437UN-numberUN 3358Circulation pump:MK pumpmax. delivery pressure168 Vmin		0,01 K		
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Circulation pump:MK pumpmax. delivery168 l/minmax. delivery pressure2,5 bar	- · ·			
max. delivery168 l/minmax. delivery pressure2,5 bar				
max. delivery pressure 2,5 bar	Circulation pump:			
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Delivery at 0,5 bar 148 l/min				
	Delivery at 0,5 bar	148 l/min		

Technical data according to DIN 12876

from Serial-No :		1 0/24
max. ambient temperature	40 °C	
min. ambient temperature	5 °C	
Degree of Protection	IP20	
Power supply factory configured (3 Phase)	460V 3~ 60Hz	
Filling capacity expansion tank	29	
min. filling capacity	12	
max. cooling water pressure	6 bar	
min. cooling water differential pressure	1 bar	
Cooling water connection	G3/4 male	
max. permissible kin. viscosity	50 mm²/s	
Pump connection	M38x1,5 male	
Delivery at 2,0 bar	66 l/min	
Delivery at 1,5 bar	100 l/min	
Delivery at 1,0 bar	126 I/min	

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, hose connection for G3/4 male,

Optional accessories:

E-grade "Explore" #10495, SpyLight-Software, Com.G@te Namur, PC-Com.G@te-cable, Holder for Com.G@te #10018, Com.G@teextension 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, 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