huber

Unistat P510w



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.

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 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

Operating temperature range		-50250 °C			
Temperature stability at -10°C		0,01 K			
temperature set point / display		5,7" colour Toucl	hscreen c	rder-No.:	1070.0045.01
Resolution of display		0.01 K	•		10101010101
Internal temperature sensor		Pt100			
Sensor external connection		Pt100			
Interface digital		Ethernet, USB (H Device), RS232	Host u.		
digital input		ECS ONE			
digital output		POKO ONE			
Alarm message		optic, acoustic, re	elay		
Safety classification		III / FL			
Heating power		9 kW			
Cooling power with		Thermooil			
at 250°C		5,3 kW			
at 200°C		5,3 kW			
at 100°C		5,3 kW			
at 20°C		5,3 kW			
Cooling power with		Ethanol			
at 0°C		5,3 kW			
at -20°C		2,8 kW			
at -40°C		0,9 kW			
at -50°C		0,25 kW			
Refrigeration machine		water-cooled, na refrigerant	tural		
Refrigerant (ASHRAE, GHS)		R-1270 (A3, H22	:0)		
Global Warming Potential (GWP)		0			
UN-number		UN 3358			
Circulation pump:		MK pump			
max. delivery		119 l/min			
max. delivery pressure		3 bar			
Delivery at 0,5 bar		106 l/min			
Delivery at 1,0 bar		91 l/min			
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Technical data according to DIN 12876

Delivery at 1,5 bar 74 l/min Delivery at 2,0 bar 55 I/min Delivery at 2,5 bar 33 I/min Pump connection M30x1,5 male max. permissible kin. viscosity 50 mm²/s Cooling water connection G1/2 male min. cooling water differential pressure 1 bar max. cooling water pressure 6 bar min. filling capacity 4,1 I Filling capacity expansion tank 3,6 I Overall dimensions WxDxH ** 460x570x1676 mm Power supply factory configured (3 Phase) 460V 3~ 60Hz Degree of Protection IP20 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, hose connection for G1/2 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@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, 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