

Unistat 610

Refrigerated Heating Circulator with air-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. 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 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	-60200 °C	
Temperature stability at -10°C	0,01 K	
temperature set point / display	5,7" colour Touchscreen	0.85
Resolution of display	0,01 K	Name to Bernard Barnes
Internal temperature sensor	Pt100	
Sensor external connection	Pt100	
Interface digital	Ethernet, USB (Host u.	
digital input	Device), RS232 ECS ONE	
digital input		
digital output	POKO ONE	
Alarm message	optic, acoustic, relay	
Safety classification	Class III / FL	
Heating power	6 kW	
Cooling power with	Thermooil	
at 200°C	7 kW	
at 100°C	7 kW	
Cooling power with	Ethanol	
at 0°C	7 kW	
at -20°C	6,4 kW	T T
at -40°C	2,6 kW	6
at -60°C	0,05 kW	
Refrigeration machine	air-cooled, CFC- and HCFC-free	Order-No.: 1052.0002.01
Refrigerant (ASHRAE, GHS)	R452A (A1, H280)	
Circulation pump:	MK pump	
max. delivery	82 l/min	
max. delivery pressure	1.5 bar	
Delivery at 0,25 bar	75 l/min	
Delivery at 0,5 bar	67 l/min	
Delivery at 0,75 bar	59 l/min	
Delivery at 1,0 bar	47 l/min	
Delivery at 1,25 bar	29 l/min	
Pump connection	M30x1,5 male	
max. permissible kin. viscosity	50 mm²/s	
min. filling capacity	6,5 I	
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Overall dimensions WxDxH **	
Power supply factory configured (3 Phase)	
Degree of Protection	
min. ambient temperature	
max. ambient temperature	

1290x955x1537 mm 400V 3~ 50Hz IP20 5°C 40 °C

from Serial-No.:

1.0/21

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, 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, 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.

* standard equipment

Output data valid for: Room temperature 20°C. If the ambient temperature rises, the cooling capacity may drop.

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