Unistat 510

Refrigerated Heating Circulator with air-cooled cooling machine and electronical 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 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	-50...250 °C
Temperature stability at -10°C	0,01 K
temperature set point / display	5,7" colour Touchscreen
Resolution of display	0,01 K
Internal temperature sensor	Pt100
Sensor external connection	Pt100
Interface digital	Ethernet, USB (Host u. Device), RS232
digital input	ECS ONE
digital output	POKO ONE
Alarm message	optic, acoustic, relay
Safety classification	Class III / FL
Heating power	6 kW
Cooling power with	Thermooil
at 250°C	5,3 kW
at 200°C	5,3 kW
at 100°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	air-cooled, CFC- and HCFC-free
Refrigerant	R507
Refrigerant quantity	2,42 kg
Circulation pump:	
max. delivery	105 l/min
max. delivery pressure	1.5 bar
Delivery at 0,5 bar	70 l/min
Delivery at 1,0 bar	55 l/min
Pump connection	M30x1,5 male
max. permissible kin. viscosity	50 mm²/s
min. filling capacity	5,3 l
Filling capacity expansion tank	26,5 l
Overall dimensions WxDxH **	1100x755x1370 mm

Order-No.: 1005.0082.01

Technical data according to DIN 12876

Net weight	335 kg
sound pressure level +/- 4 dB(A)	69 dB(A)
Power supply factory configured (3 Phase)	400V 3~ 50Hz *
max. current (3 Phase)	14 A
Fuse (3 phase)	3x16 A
power supply convertible (3 phase)	440V 3~ 60Hz
max. current convertible (3 phase)	13,5 A
fuse convertible (3 phase)	3x16 A
Degree of Protection	IP20
min. ambient temperature	5 °C
max. ambient temperature	40 °C

from Serial-No.:	**178117**	**1.0/13**

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-cabel, 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
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

Alternative (factory set) power supply - please quote configuration at time of ordering.

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