

Unistat 825

Refrigerated Heating Circulator with air-cooled cooling machine and optical 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. 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 11 languages (EN, DE, FR, IT, ES, RU, CN, PT, JP, CZ, PL). 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:

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.

3-2-1 warranty - registration required.

Technical data according to DIN 12876

Operating temperature range	-85250 °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	4 kW	
Cooling power with	Thermooil	
at 250°C	2,3 kW	
at 200°C	2,3 kW	
at 100°C	2,3 kW	
Cooling power with	Ethanol	
at 0°C	2,2 kW	
at -20°C	2 kW	
at -40°C	2 kW	
at -60°C	1,4 kW	
at -80°C	0,3 kW	
at -85°C	0,2 kW	R.
Refrigeration machine	air-cooled, CFC- and HCFC-free	
Refrigerant	R507	
Refrigerant quantity	1,8 kg	Order-No.: 1014.0061.01
Refrigerant 2nd stage	R23	
Refrigerant quantity 2nd stage	0,39 kg	
Circulation pump:		
max. delivery	40 l/min	
max. delivery pressure	0.9 bar	
Delivery at 0,3 bar	27 l/min	
Delivery at 0,5 bar	22 l/min	
Delivery at 0,8 bar	9 l/min	

Technical data according to DIN 12876

from Serial-No.:	190226	1.0/13
max. ambient temperature	40 °C	
min. ambient temperature	5 °C	
Protection class	IP20	
Fuse (3 phase)	3x16 A	
max. current (3 Phase)	14,5 A	
Power supply (3 Phase)	460V 3~ 60Hz	
sound pressure level +/- 4 dB(A)	63 dB(A)	
Net weight	221 kg	
Overall dimensions WxDxH **	460x604x1465 mm	
Filling capacity expansion tank	3,6 I	
min. filling capacity	2,9	
max. permissible kin. viscosity	50 mm²/s	
Pump connection	M30x1,5 male	

Technical details and dimensions are subject to change. No liability is accepted for errors or omissions.

Accessories and periphery: mini-USB cable #54949*, 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, external sensor, connecting cable, 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

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