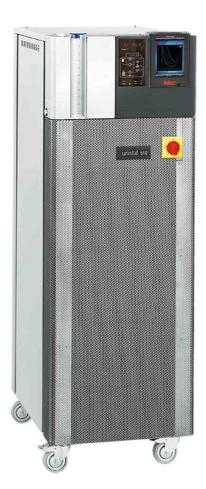


Unistat P510 | 510





Refrigerated Heating Circulator with air-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.

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 Touchscreen	
Resolution of display	0,01 K	10mm
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	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	(C. 1997)
Refrigeration machine	air-cooled, CFC- and HCFC-free	
Refrigerant (ASHRAE, GHS)	R-452A (A1, H280)	
Global Warming Potential (GWP)	2141	
Refrigerant quantity	2,8 kg	
Circulation pump:	MK pump	Order-No.: 1070.0011.01
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	
Delivery at 1,5 bar	74 l/min	

Technical data according to DIN 12876

from Serial-No.:	519724	1.0/23
max. ambient temperature	40 °C	
min. ambient temperature	5 °C	
Degree of Protection	IP20	
Pressure equipment category	Art. 4.3 PED	
Fuse (3 phase)	3x20A	
max. current (3 Phase)	18 A	
Power supply factory configured (3 Phase)	460V 3~ 60Hz	
Net weight	233 kg	
Overall dimensions WxDxH **	560x754x1457 mm	
Filling capacity expansion tank	5,5 l	
min. filling capacity	4,1 I	
max. permissible kin. viscosity	50 mm²/s	
Pump connection	M30x1,5 male	
Delivery at 2,5 bar	33 l/min	
Delivery at 2,0 bar	55 l/min	

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,

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, 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.

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 Attention: leakage current > 3,5mA

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



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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.

Technical data according to DIN 12876

Operating temperature range Temperature stability at -10°C temperature set point / display Resolution of display Internal temperature sensor Sensor external connection Interface digital digital input digital output Alarm message Safety classification Heating power Cooling power with at 250°C at 200°C at 100°C	-50250 °C 0,01 K 5,7" colour Touchscreen 0,01 K Pt100 Pt100 Ethernet, USB (Host u. Device), RS232 ECS ONE POKO ONE optic, acoustic, relay III / FL 9 kW Thermooil 5,3 kW 5,3 kW 5,3 kW	
at 200°C	5,3 kW	Order-No.: 1070.0004.01
Delivery at 1,0 bar Delivery at 1,25 bar Pump connection	54 I/min 27 I/min M30x1,5 male	

Technical data according to DIN 12876

from Serial-No.:	420393	1.0/21
max. ambient temperature	40 °C	
min. ambient temperature	5 °C	
Degree of Protection	IP20	
Pressure equipment category	Art. 4.3 PED	
Fuse (3 phase)	3x20A	
max. current (3 Phase)	16 A	
Power supply factory configured (3 Phase)	460V 3~ 60Hz	
Net weight	233 kg	
Overall dimensions WxDxH **	560x754x1457 mm	
Filling capacity expansion tank	5,5 l	
min. filling capacity	4,1	
max. permissible kin. viscosity	50 mm²/s	

Technical details and dimensions are subject to change. No liability is accepted for errors or omissions. Illustrations can deviate from the original.

Included Accessories:

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