

# **Unistat P425**

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	-40250 °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	III / FL	
Heating power	2,65 kW	STREET, STREET
Cooling power with	Thermooil	
at 250°C	2,8 kW	BEREITER I
at 200°C	2,8 kW	and the second s
at 100°C	2,8 kW	and the second s
at 20°C	2,8 kW	Excellence of the second s
Cooling power with	Ethanol	
at 0°C	2,5 kW	15
at -20°C	1,8 kW	
at -40°C	0,1 kW	
Refrigeration machine	air-cooled, CFC- and HCFC-free	Order-No.: 1050.0031.01
Refrigerant (ASHRAE, GHS)	R452A (A1, H280)	
Circulation pump:	MK pump	
max. delivery	97 l/min	
max. delivery pressure	3 bar	
Delivery at 0,5 bar	86 l/min	
Delivery at 1,0 bar	75 l/min	
Delivery at 1,5 bar	63 l/min	
Delivery at 2,0 bar	48 l/min	
Delivery at 2,5 bar	30 l/min	

### Technical data according to DIN 12876

Pump connection
max. permissible kin. viscosity
min. filling capacity
Filling capacity expansion tank
Overall dimensions WxDxH **
sound pressure level +/- 4 dB(A)
Power supply factory configured (3 Phase)
Pressure equipment category
Degree of Protection
min. ambient temperature
max. ambient temperature

1.0/20

## from Serial-No.:

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

M30x1,5 male 50 mm<sup>2</sup>/s 4 I 3,7 I

65 dB(A) 460V 3~ 60Hz 4.3 PED IP20 5 °C 40 °C

460x554x1453 mm

#### 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@teextension 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