

# Unistat 705

Hydraulically sealed Refrigerated Heating Circulator with air-cooled refrigerating unit. Evaporator and housing made of stainless steel. With atmospheric open expansion tank and optical level indicator. As well as for externally closed and also externally open applications.

High system performance (watt/litre) due to minimized internal volume. No HTF vapour and no moisture absorption because the expansion tank is thermally passive. For external open baths the expansion tank will be blocked off. This means that the thermostat is atmospherically sealed and can be located below or above the level of the application.

## 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		-75250 °C			
Temperature stability at -10°C		0,01 K			
temperature set point / display		5,7" colour Touchso	creen		
Resolution of display		0,01 K	ſ	IT makes	-0.0
Internal temperature sensor		Pt100			
Sensor external connection		Pt100			
Interface digital		Ethernet, USB (Hos Device), RS232	st u.	TATE No.	
digital input		ECS ONE		Part -	
digital output		POKO ONE	1	unistat Na	17
Alarm message		optic, acoustic, rela	y		
Safety classification		Class III / FL			
Heating power convertible		1,5kW or 3,0kW	1		
Cooling power with		Thermooil			
at 250°C		0,6 kW			
at 200°C		0,6 kW	1	9	
at 100°C		0,6 kW			
Cooling power with		Ethanol			-V
at 0°C		0,65 kW			
at -20°C		0,6 kW	Or	der-No.: 1001	.0020.01
at -40°C		0,6 kW	•		
at -60°C		0,3 kW			
at -75°C		0,06 kW			
Refrigeration machine		air-cooled, CFC- ar HCFC-free	nd		
Refrigerant		R507			
Refrigerant quantity		0,4 kg			
Refrigerant 2nd stage		R23			
Refrigerant quantity 2nd stage		0,28 kg			
Circulation pump:					
max. delivery		55 l/min			
max. delivery pressure		0.9 bar			
Pump connection		M24x1,5 male			
max. permissible kin. viscosity		50 mm²/s			
min. filling capacity		1,5 l			
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from Serial-No.:	165374	1.0/12
max. ambient temperature	40 °C	
min. ambient temperature	5 °C	
Degree of Protection	IP20	
Fuse (3 phase)	3x16 A	
max. current (3 Phase)	13 A	
Fuse (1 phase)	16 A	
max. current	14 A	
Power supply convertible	230V 1~ 50Hz* or 400V 3~N 50Hz	
sound pressure level +/- 4 dB(A)	61 dB(A)	
Net weight	90 kg	
Overall dimensions WxDxH **	425x400x720 mm	
Filling capacity expansion tank	2,8	

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\*, Adaptor M16x1 male to M24x1,5 female\*, E-grade "Explore" #10495, RS232 adapter cable #55018, SpyLight-Software, Com.G@te Namur, PC-Com.G@te-cabel, Holder for Com.G@te # 10019; Com.G@te-extension cable: upon request, Thermofluid, external pressure sensor, metal hoses M16x1 or M24x1,5, 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