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.Powerful variable speed pump (soft start) with integrated pressure control with optional external pressure sensor.

Pilot ONE:
The 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, ZH, PT, JA, CS, 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	-75...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	III / FL
Heating power	3 kW
Cooling power with	Thermooil
at 250°C	0,6 kW
at 200°C	0,6 kW
at 100°C	0,6 kW
Cooling power with	Ethanol
at 0°C	0,65 kW
at -20°C	0,6 kW
at -40°C	0,6 kW
at -60°C	0,3 kW
at -75°C	0,06 kW
Refrigeration machine	air-cooled, CFC- and HCFC-free
Refrigerant (ASHRAE, GHS)	R-452A (A1, H280)
Global Warming Potential (GWP)	2141
Refrigerant quantity	0,5 kg
CO2-Äquvivalent	1,1 t
Refrigerant 2nd stage (ASHRAE, GHS)	R-170 (A3, H220)
Global Warming Potential (GWP)	0,437
Refrigerant quantity 2nd stage	0,099 kg
CO2-Äquvivalent 2. Stufe	0,0 t

Order-No.: 1068.0021.01

Technical data according to DIN 12876

UN-number	UN 3358
Circulation pump:	
max. delivery	55 l/min
max. delivery pressure	0,9 bar
Delivery at 0,1 bar	53 l/min
Delivery at 0,5 bar	40 l/min
Delivery at 0,8 bar	25 l/min
Pump connection	M24x1,5 male
max. permissible kin. viscosity	50 mm²/s
min. filling capacity	1,5 l
Filling capacity expansion tank	2,8 l
Overall dimensions WxDxH **	426x399x719 mm
Net weight	91 kg
Power supply requirement	208V 2~ 60Hz
max. current	20 A
Fuse	20 A
Pressure equipment category	I
Degree of Protection	IP20
min. ambient temperature	5 °C
max. ambient temperature	40 °C

from Serial-No.:	**S617638**	**1.0/26**

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, Adaptor M16x1 male to M24x1,5 female,

Optional accessories:
E-grade "Explore" #10495, RS232 adapter cable #55018, SpyLight-Software, Com.G@te Namur, PC-Com.G@te-cable, Holder for Com.G@te #10019; Com.G@te-extension cable: upon request, heat transfer fluid, 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, 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

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