

Heating Circulator for closed systems and open baths. Powerful - regulated - cooling, saves water, unpressurised. Stepper motor controlled HT cooler (High temperature cooler) and water cooled heat exchanger. Water exit temperature limited to 55° C. No steam exits on cooling with circulation temperatures over 100° C. Closed circulation pump made of stainless steel with cooled shaft seal with free shaft, without bearing in the liquid. Automatical capacity adaption for heating. Expansion tank (not thermoregulated) for closed systems, lockable for open baths. Copper soldered heat exchanger, moistened parts and housing made of stainless steel. With adjustable overtemperature protection according to DIN 12876.

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	65...300 °C	
Minimum temperature with water cooling	15 °C	
temperature set point / display	5,7" colour Touchscreen	Order-No.: 1003.0015.01
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	4,8 kW	
Cooling power		
at 300°C	10 kW	
at 200°C	10 kW	
at 100°C	10 kW	
Circulation pump:		
max. delivery	45 l/min	
max. delivery pressure	0.9 bar	
Pump connection	M24x1,5 male	
max. permissible kin. viscosity	50 mm²/s	
Cooling water consumption at water temp. 15°C	240 l/h	
Cooling water connection	G1/2 male	
min. cooling water differential pressure	3 bar	
max. cooling water pressure	6 bar	
Filling capacity	1,9 l	
Filling capacity expansion tank	2,8 l	
Overall dimensions WxDxH **	425x249x631 mm	
Net weight	41,5 kg	
Power supply (3 Phase)	208V 3~ 60Hz	
max. current (3 Phase)	15 A	
Fuse (3 phase)	3x16 A	
Protection class	IP20	
max. ambient temperature	40 °C	
min. ambient temperature	5 °C	

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

Accessories and periphery: mini-USB cable #54949*, Com.G@te Namur, PC-Com.G@te-cabel, Holder for Com.G@te #10019, Com.G@te-extension cable: upon request, SpyLight-Software, 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, cooling water inlet 15°C and 3 bar differential pressure between cooling water inlet and - outlet. Cooling water circuit of copper, 1.4401, brass. The correct cooling water must be used.

In accordance with EN60034-1 the following voltage and frequency tolerances are valid:

Voltage + / - 10%, as long as the frequency tolerance does not run in the opposite direction.

Example: -10% voltage and +3% frequency -> not allowed !

-10% voltage and -3% frequency -> allowed.

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