

Refrigerated Heating Circulator with air-cooled cooling machine and optical level indicator. Circulation pump made of stainless steel with cooled shaft seal with free shaft, without bearing in the liquid. 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.

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 | -85...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 | 2,6 kW |
| Cooling power with | Thermooil |
| at 250°C | 1,3 kW |
| at 200°C | 1,3 kW |
| at 100°C | 1,3 kW |
| Cooling power with | Ethanol |
| at 0°C | 1,5 kW |
| at -20°C | 1,5 kW |
| at -40°C | 1,4 kW |
| at -60°C | 1,2 kW |
| at -80°C | 0,2 kW |
| Refrigeration machine | air-cooled, CFC- and HCFC-free |
| Refrigerant (ASHRAE, GHS) | R-452A (A1, H280) |
| Global Warming Potential (GWP) | 2141 |
| Refrigerant quantity | 1,8 kg |
| Refrigerant 2nd stage (ASHRAE, GHS) | R-23 (A1, H280) |
| Global Warming Potential (GWP) | 14800 |
| Refrigerant quantity 2nd stage | 0,39 kg |
| Circulation pump: | |
| max. delivery | 40 l/min |
| max. delivery pressure | 0,9 bar |
| Delivery at 0,3 bar | 27 l/min |



Order-No.: 1053.0014.01

Technical data according to DIN 12876

| | |
|---|-----------------------|
| Delivery at 0,5 bar | 20 l/min |
| Delivery at 0,8 bar | 5 l/min |
| Pump connection | M30x1,5 male |
| max. permissible kin. viscosity | 50 mm ² /s |
| min. filling capacity | 3,8 l |
| Filling capacity expansion tank | 3,3 l |
| Overall dimensions WxDxH ** | 460x604x1465 mm |
| Net weight | 229 kg |
| sound pressure level +/- 4 dB(A) | 64 dB(A) |
| Power supply factory configured (3 Phase) | 460V 3~ 60Hz |
| max. current (3 Phase) | 13 A |
| Fuse (3 phase) | 3x16 A |
| Pressure equipment category | I |
| Degree of Protection | IP20 |
| min. ambient temperature | 5 °C |
| max. ambient temperature | 40 °C |

from Serial-No.:

466916

1.1/22

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

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