# HTS 50

Heat Exchanger Unit with circulation pump (stainless steel). Housing, atmospheric open expansion tank and external plate heat exchanger (copper soldered), made of stainless steel. With digital level indicator. For externally closed applications. With adjustable overtemperature protection according to DIN 12876.

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.

The range of functions can be expanded very easily via E-grade at any time by entering a unit specific upgrade code:

E-grade "Exclusive": TAC (True Adaptive Control) - self optimising internal and cascade control, selectable temperature control mode (Internal/Process), programmer with 3 programs (max. 15 steps), ramp function (linear), 5 point calibration, scalable graphic display, favourites menu, display resolution 0,01 K.

E-grade "Professional": Programmer with 10 programs (max. 100 steps), ramp function for temperature gradients (linear and non-linear), 2nd set point, user menus (Administrator level), calendar start.

4-year warranty - registration required.

The dimensions specified below are approximate and may be subject to change.

| | | | |
|---|---|---|---|
| Cooling power at: | 30kW | / | 50kW |
| primary side: | | | |
| inlet 10°C / flow | 50 l/min | / | 100 l/min |
| secondary side: | | | |
| outlet 20°C / recirculation | 160 l/min | / | 160 l/min |

Secundary (HTS to application):

| | |
|---|---|
| Medium: | water |
| Temperature range: | 5°...90°C |

Primary (cooling water customer side):

| | |
|---|---|
| Medium: | water |
| Temperature range: | 0°...90°C |
| max. consumption | |
| at pressure differential 0,2 bar | 26 l/min |
| at pressure differential 0,5 bar | 46 l/min |
| at pressure differential 1,0 bar | 68 l/min |
| at pressure differential 1,5 bar | 61 l/min |
| at pressure differential 2,0 bar | 92 l/min |
| at pressure differential 2,5 bar | 105 l/min |
| at pressure differential 3,0 bar | 116 l/min |

**Technical data according to DIN 12876**

| | |
|---|---|
| Operating temperature range ( secondary side ) | (3)...(95) °C |
| Temperature stability | 0,1 K |
| temperature set point / display | 5,7" colour Touchscreen |
| Internal temperature sensor | Pt100 |
| Sensor external connection | Pt100 |
| Interface digital | Ethernet, USB (Host u. Device), RS232 |
| Alarm message | optic, acoustic, relay |
| Safety classification | I / NFL |
| Cooling power with | Water |
| at 20°C | 50 kW |
| Circulation pump | G |
| max. delivery | 240 l/min |

**Order-No.: 3060.0007.01**

**Technical data according to DIN 12876**

| | |
|---|---|
| max. delivery pressure | 4,7 bar |
| Delivery at 1,1 bar | 223 l/min |
| Delivery at 1,5 bar | 211 l/min |
| Delivery at 2,0 bar | 196 l/min |
| Delivery at 2,5 bar | 180 l/min |
| Delivery at 3,0 bar | 160 l/min |
| Delivery at 3,5 bar | 139 l/min |
| Delivery at 4,0 bar | 109 l/min |
| Delivery at 4,5 bar | 70 l/min |
| Pump connection | G1 1/4 male |
| max. permissible kin. viscosity | 50 mm²/s |
| Cooling water connection | G1 1/4 male |
| max. cooling water differential pressure | 4 bar |
| max. cooling water pressure | 6 bar |
| min. filling capacity | 26 l |
| Volume of expansion | 44 l |
| Overall dimensions WxDxH ** | 753x842x1246 mm |
| Power supply requirement (3 phase) | 460V 3~ 60Hz |
| Pressure equipment category | Art. 4.3 PED |
| Degree of Protection | IP20 |
| min. ambient temperature | 5 °C |
| max. ambient temperature | 40 °C |

**from Serial-No.:** **1.0/24**

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, hose connection for cooling water G1 1/4 male

Optional accessories:
Com.G@te, temperature control / - connection hoses, further accessories, etc.: see catalog.

Output data valid for: Room temperature 20°C, The performance data primary to secondary circuit apply to a temperatruer difference of (Delta T) 10K. This temperature control unit has been designed to operate with cooling water up to 20°C. Materiels used in the cooling water circuit include; copper, Stainless steel 1.4401, MS, PA, PPE, PTFE and EPDM. Please use suitable cooling water.

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.

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

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