

Refrigerated Heating Bath with air-cooled refrigerating unit. Consisting of isolated cooling bath made of stainless steel with immersion thermostat. Pump and wetted parts made from stainless steel or high-resistant plastics. 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 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.

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.

### Technical data according to DIN 12876

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Operating temperature range      | -20...200 °C                          |
| Temperature stability at 70°C    | 0,02 K                                |
| temperature set point / display  | 5,7" colour Touchscreen               |
| Absolute accuracy                | setup for calibration                 |
| Internal temperature sensor      | Pt100                                 |
| Sensor external connection       | Pt100                                 |
| Interface digital                | Ethernet, USB (Host u. Device), RS232 |
| Safety classification            | III / FL                              |
| Heating power at 240V            | 2,1 kW                                |
| Heating power at 230V            | 2 kW                                  |
| Heating power at 220V            | 1,8 kW                                |
| Cooling power                    |                                       |
| at 20°C                          | 0,25 kW                               |
| at 0°C                           | 0,2 kW                                |
| at -10°C                         | 0,12 kW                               |
| at -20°C                         | 0,05 kW                               |
| Refrigeration machine            | air-cooled, natural refrigerant       |
| Refrigerant (ASHRAE, GHS)        | R-290 (A3, H220)                      |
| Global Warming Potential (GWP)   | 0,02                                  |
| Refrigerant quantity             | 0,041 kg                              |
| Gas warning sensor               | without                               |
| Pressure / Suction pump          |                                       |
| max. delivery                    | 27 l/min                              |
| max. delivery pressure           | 0,7 bar                               |
| max. delivery (suction)          | 22 l/min                              |
| max. delivery pressure (suction) | 0,4 bar                               |
| Pump connection (optional)       | M16x1 male                            |
| Bath volume                      | 15 l                                  |
| Width bath opening WxD           | 290x152 mm                            |
| Bath depth                       | 200 mm                                |
| Height of bath opening           | 265 mm                                |
| Overall dimensions WxDxH **      | 350x560x430 mm                        |
| Net weight                       | 28 kg                                 |
| Power supply requirement         | 220-240V 1~/2~ 50/60Hz                |



**Order-No.: 2010.0002.01**

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|                                   |              |
|-----------------------------------|--------------|
| max. current refrigerated bath    | 1,5 A        |
| max. current immersion thermostat | 10 A         |
| min. Fuse                         | 10A          |
| max. Fuse                         | 16A          |
| Pressure equipment category       | Art. 4.3 PED |
| Degree of Protection              | IP20         |
| min. ambient temperature          | 5 °C         |
| max. ambient temperature          | 40 °C        |

|                         |               |               |
|-------------------------|---------------|---------------|
| <b>from Serial-No.:</b> | <b>379761</b> | <b>1.3/20</b> |
|-------------------------|---------------|---------------|

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\*, Drain valve with cap #6839, adjustable base #40763, bath cover front #19598, pump adaptor #19607, Note: When using Huber pump adapter: Polyglycol is not permissible to be used as a heat transfer fluid, stainless steel test tube racks Typ 1-4, \* data cable #9472, nozzle #33288, DS level regulator #9580

\* standard equipment

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](http://www.huber-online.com)