# huber

# **Variostat**



Refrigerated Heating Circulator Bath in combination with arbitrary baths or standard baths, housing of stainless steel, air-cooled refrigerating unit, pressure and suction pump made of high-resistant plastic. With adjustable overtemperature protection according to DIN 12876.

#### Pilot ONF:

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 Temperature stability at -10°C temperature set point / display Internal temperature sensor Sensor external connection

Interface digital

Safety classification Heating power Cooling power at 100°C at 20°C at 0°C at -10°C at -20°C

Refrigeration machine

at -30°C

Refrigerant (ASHRAE, GHS) Global Warming Potential (GWP)

Refrigerant quantity
Gas warning sensor
Pressure pump
max. delivery
may, delivery pressure

max. delivery pressure max. delivery (suction)

max. delivery pressure (suction)

Pump connection

max. permissible kin. viscosity sound pressure level +/- 4 dB(A) Overall dimensions WxDxH \*\*

Net weight

Power supply requirement

max. current min. Fuse max. Fuse -30...150 °C 0.02 K

5,7" colour Touchscreen

Pt100 Pt100

Ethernet, USB (Host u. Device), RS232

III / FL 1 kW

0,3 kW 0,3 kW 0,2 kW 0,18 kW 0,12 kW 0,03 kW

air-cooled, natural refrigerant

R-290 (A3, H220)

0,02 0,04 kg without yes 25 l/min 0,7 bar 18,5 l/min 0,4 bar M16x1 male 50 mm²/s

54 dB(A) 183x465x416 mm

24 kg

220-240V 1~/2~ 50/60Hz

7 A 10A 16A



Order-No.: 2013.0003.01

### Technical data according to DIN 12876

458911	1.3/21
5 °C	
40 °C	
IP20	
Art. 4.3 PED	
	IP20 40 °C 5 °C

Technical details and dimensions are subject to change. No liability is accepted for errors or omissions. Illustrations can deviate from the original. Accessoires and periphery: mini-USB cable #54949\*, Adapter nom. dia 12 mm\*, dummy plugs\*, sleeve nuts thread M16x1\*, connection tubes, bath 5,5 / 11 / 22 litres, Com.G@te.

\* 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

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