# CC-405w

Refrigerated Heating Circulator Bath with water-cooled cooling machine. Powerful, variable speed, pressure and suction pump, evaporator (cooler) and housing of stainless steel, CFC and H-CFC free. 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

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 at 240V Heating power at 230V Heating power at 220V

Cooling power at 100°C at 20°C

at 0°C at -20°C at -30°C at -40°C

Refrigeration machine

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

Refrigerant quantity Pressure pump max. delivery

max. delivery pressure

Suction pump

max. delivery (suction)

max. delivery pressure (suction)

Pump connection

max. permissible kin. viscosity Cooling water connection

Consumption at water 15°C, flow 0°C min. cooling water differential pressure

max. cooling water pressure

Bath volume

-40...200 °C

0.02 K

5,7" colour Touchscreen

Pt100 Pt100

Ethernet, USB (Host u.

Device), RS232

III / FL 1,6 kW 1,5 kW 1,3 kW

0,7 kW 0,7 kW 0,7 kW 0,45 kW 0.18 kW 0.03 kW

water-cooled. CFC- and

**HCFC-free** 

R-452A (A1, H280)

2141 0,2 kg yes 25 I/min 0,7 bar yes 18.5 l/min

0 4 har M16x1 male 50 mm<sup>2</sup>/s G1/2 male 46 l/h 3 bar 6 bar

Order-No.: 2017.0002.01

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## Technical data according to DIN 12876

min. ambient temperature

min. filling capacity 4 I

Width bath opening WxD / bath depth 120 x 110 / 150 mm

Height of bath opening 480 mm

Overall dimensions WxDxH \*\* 370x460x679 mm

Net weight 55 kg

Power supply requirement 220-240V 1~/2~ 50/60Hz

max. current9,5 Amin. Fuse10Amax. Fuse16APressure equipment category4.3 DGRLDegree of ProtectionIP20max. ambient temperature40 °C

from Serial-No.: 1.3/20

5°C

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\*, Adapter nom. dia. 12 mm\*, dummy plugs\*, sleeve nuts thread M16x1\*, hose coupling 3/8" \*, connection tubes, braided hoses for cooling water, drain valve \* 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. This temperature control unit has been designed to operate with cooling water up to 20°C. As the cooling water temperature increases, drop in the cooling power should be expected, and also an increased cooling water flow rate possible. 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 + / - 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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