huber

CC-515w

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 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.

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 -20°C

Refrigeration machine

at -40°C

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

Refrigerant quantity Pressure pump max. delivery max. delivery pressure

Suction numn

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 Consumption at water 15°C, flow -20°C min. cooling water differential pressure

max. cooling water pressure

Bath volume min. filling capacity

Bath capacity with displacement rack

-55...200 °C 0.02 K

5,7" colour Touchscreen

Pt100 Pt100

Ethernet, USB (Host u.

Device), RS232

III / FL 3 kW

3,3 kW 3,3 kW 3,3 kW 1,6 kW 0,6 kW

water-cooled, CFC- and

HCFC-free

R-452A (A1, H280)

2141 1 kg yes 25 l/min 0,7 bar yes 18,5 l/min 0,4 bar M16x1 male 50 mm²/s

50 mm²/s G1/2 male 192 l/h 138 l/h 3 bar 6 bar 18 l 16 l

Order-No.: 2021.0005.01

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Technical data according to DIN 12876

Width bath opening WxD / bath depth 270 x 150 / 200 mm

Height of bath opening 815 mm

Overall dimensions WxDxH ** 455x515x1014 mm

Net weight 105 kg

Power supply requirement (3 phase) 400V 3~N 50Hz

max. current (3 Phase) 10,5 A
Fuse (3 phase) 3x16A
Pressure equipment category Art. 4.3 PED

Degree of Protection IP20 max. ambient temperature 40 °C min. ambient temperature 5 °C

from Serial-No.: 459182 1.0/21

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*, bath cover*, Adapter nom. dia. 12mm*, dummy plugs*, sleeve nuts thread M16x1 *, hose coupling 3/8", connection tubes, braided hoses for cooling water, drain valve, displacement insert to reduce bath volume, calibration insert

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

Peter Huber Kältemaschinenbau SE Werner-von-Siemens-Str. 1 D-77656 Offenburg Tel 0781/9603-0 Fax 0781/57211 www.huber-online.com

^{*} standard equipment