# CC-820w

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 11 languages (EN, DE, FR, IT, ES, RU, CN, PT, JP, CZ, PL). 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.

3-2-2 warranty - registration required.

## Technical data according to DIN 12876

-80...100 °C Operating temperature range Temperature stability at -10°C 0.02 K temperature set point / display Internal temperature sensor Pt100 Pt100 Sensor external connection Safety classification Class III / FL Heating power 3 kW Cooling power at 100°C 1,2 kW at 20°C 1,2 kW at 0°C 1,2 kW at -20°C 1,1 kW at -40°C 0,9 kW at -60°C 0,6 kW at -80°C 0.14 kW

Refrigerant Refrigerant quantity Refrigerant 2nd stage Refrigerant quantity 2nd stage

Refrigeration machine

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 20°C Consumption at water 15°C, flow 0°C Consumption at water 15°C, flow -20°C Consumption at water 15°C, flow -40°C Consumption at water 15°C, flow -80°C min. cooling water differential pressure

5.7" colour Touchscreen

water-cooled. CFC- and

**HCFC-free** R507 0.7 kaR23 0,51 kg

31 l/min 0.6 bar yes 24 I/min 0.35 bar M16x1 male 50 mm<sup>2</sup>/s G1/2 male 78 l/h 60 l/h

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60 l/h

66 l/h

30 l/h

3 bar

# Technical data according to DIN 12876

max. cooling water pressure	6 bar
Bath volume	17
Bath capacity with displacement rack	10
Width bath opening WxD / bath depth	270 x 150 / 200 mm
Height of bath opening	903 mm
Overall dimensions WxDxH **	539x629x1102 mm
Net weight	150 kg
Power supply requirement (3 phase)	400V 3~N 50Hz
max. current (3 Phase)	11,5 A
Fuse (3 phase)	3x16 A
Degree of Protection	IP20
max. ambient temperature	40 °C
min. ambient temperature	5 °C

Technical details and dimensions are subject to change. No liability is accepted for errors or omissions.

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

178215

1.0/13

from Serial-No.:

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

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<sup>\*</sup> standard equipment

<sup>\*\*</sup> Please respect space requirements. See operating conditions at www.huber-online.com