huber

CC-410wl

Refrigerated Heating Circulator Bath with air- and 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

Operating temperature range
Temperature stability at -10°C
temperature set point / display
Internal temperature sensor
Sensor external connection
Safety classification
Heating power
Cooling power
at 100°C
at 20°C
at 0°C

at -30°C at -40°C

Refrigeration machine

Refrigerant

at -20°C

Refrigerant quantity Pressure pump max. delivery max. delivery pressure

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Suction pump

max. delivery (suction)

max. delivery pressure (suction)

Pump connection

max. permissible kin. viscosity Cooling water connection

min. cooling water differential pressure

max. cooling water pressure

Bath volume

Bath capacity with displacement rack

Width bath opening WxD / bath depth

Height of bath opening

Overall dimensions WxDxH **

Net weight

Power supply requirement

-45...200 °C

0,02 K

5,7" colour Touchscreen

Pt100 Pt100 Class III / FL 3 kW

0,8 kW 0,8 kW 0,8 kW 0,5 kW 0,15 kW

air- and water-cooled.

CFC-free R507 0,38 kg

33 l/min 0.7 bar yes 22 l/min 0.4 bar M16x1 male 50 mm²/s

G1/2 male 3 bar 6 bar 22 I 8.5 I

280 x 280 / 200 mm

520 mm

420x565x719 mm

72 kg

230V 1~ 50/60Hz



Order-No.: 2019.0001.01

Technical data according to DIN 12876

from Serial-No.:	173018	1.0/12
min. ambient temperature	5 °C	
max. ambient temperature	40 °C	
Degree of Protection	IP20	
Fuse (1 phase)	16 A	
max. current	16 A	

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",

cooling water outlet 7/16", connection tubes, braided hoses for cooling water, drain valve, displacement insert to reduce bath volume #6293, calibration insert #6294

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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^{*} standard equipment

^{**} Please respect space requirements. See operating conditions at www.huber-online.com