Unichiller 040Tw-H

Chiller with water-cooled refrigerating unit and circulation pump (stainless steel). Housing, atmospheric open expansion tank and copper soldered evaporator made of stainless steel. With digital level indicator. With adjustable overtemperature protection according to DIN 12876. For externally closed applications.

Pilot ONE:
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	-10...100 °C
temperature set point / display	5,7" colour Touchscreen
Internal temperature sensor	Pt100
Sensor external connection	Pt100
Temperature stability at -10°C	0,2 K
Interface digital	Ethernet, USB (Host u. Device), RS232
Safety classification	III / FL
Heating power	2 kW
Cooling power	
at 15°C	4 kW
at 0°C	2,5 kW
at -10°C	1,5 kW
Refrigeration machine	water-cooled, CFC- and HCFC-free
Refrigerant (ASHRAE, GHS)	R-449A (A1, H280)
Global Warming Potential (GWP)	1397
Refrigerant quantity	0,65 kg
CO2 equivalent	0,9 t
UN-number	UN 2857
Circulation pump	B
max. delivery	30 l/min
max. delivery pressure	3,8 bar
Delivery at 0,33 bar	22 l/min
Delivery at 0,5 bar	20 l/min
Delivery at 1,0 bar	17 l/min
Delivery at 2,0 bar	10 l/min
Delivery at 3,0 bar	5 l/min
Pump connection	G3/4 male
Cooling water connection	G1/2 male
Consumption at water 15°C, flow 15°C	132 l/h
Consumption at water 15°C, flow 0°C	70 l/h
Consumption at water 15°C, flow -10°C	32 l/h
min. cooling water differential pressure	1 bar
max. cooling water pressure	6 bar
min. filling capacity	2,5 l

Order-No.: 3014.0081.01

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Technical data according to DIN 12876

Volume of expansion	4 l
Overall dimensions WxDxH **	400x440x1230 mm
Net weight	143 kg
Power supply (3 Phase)	460V 3~ 60Hz
Degree of Protection	IP20
min. ambient temperature	5 °C
max. ambient temperature	40 °C

from Serial-No.: **1.0/25**

Technical details and dimensions are subject to change. No liability is accepted for errors or omissions. Illustrations can deviate from the original.

Included Accessories:
mini-USB cable #54949, cover expansion vessel , Hose coupling for G3/4 male, hose coupling cooling water for G1/2 male

Optional accessories:
Com.G@te, external sensor, temperature control / - connection hoses, heat transfer fluid, further accessories, etc.: see catalog.

Output data valid for: Room temperature 20°C, cooling water inlet 15°C and 1 bar differential pressure between cooling water inlet and -outlet. This temperature control unit is designed to operate with cooling water intake temperature between 5°C and 20°C. When cooling water temperatures fall below the condensation point, it is essential to insulate the cooling water pipes in the unit.
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

External branch circuit protection according to UL 489 required.
For the specification, please refer to the electrical schematics.

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