huber

Unichiller 350Tw-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. For externally closed applications. Adjustable overtemperature protection in accordance with DIN 12876

Pilot ONE:

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 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

temperature set point / display Internal temperature sensor Pt100 Order-No.: 3021.0033.01 Sensor external connection Pt100 Temperature stability at -10°C Interface digital Ethernet, USB (Host u. Device), RS232 Safety classification III / FL Heating power 2 kW Cooling power at 15°C 35 kW at -10°C 25 kW at -10°C 16 kW at -20°C 10 kW				
Internal temperature sensor	Operating temperature range	-2040 °C		
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 2 kW at 15°C 35 kW at 0°C 25 kW at -10°C 16 kW at -20°C 10 kW Refrigeration machine water-cooled, CFC- and HCFC-free Refrigerant (ASHRAE, GHS) R-449A (A1, H280) Global Warming Potential (GWP) 1397 UN-number UN 2857 Circulation pump D3 max. delivery pressure 4,7 bar Delivery at 1,1 bar 202 l/min Delivery at 1,5 bar 193 l/min Delivery at 2,0 bar 179 l/min Delivery at 3,5 bar 159 l/min Delivery at 3,5 bar 115 l/min Delivery at 4,0 bar 77 l/min Delivery at 4,5 bar 31 l/min Delivery at 4,5 bar 31 l/min Delivery at 4,5 bar 31 l/min <td>temperature set point / display</td> <td>5,7" colour Touchscreen</td> <td></td> <td></td>	temperature set point / display	5,7" colour Touchscreen		
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 35 kW at 15°C 35 kW at -0°C 25 kW at -10°C 16 kW at -20°C 10 kW Refrigeration machine water-cooled, CFC- and HCFC-free Refrigerant (ASHRAE, GHS) R-449A (A1, H280) Global Warming Potential (GWP) 1397 UN-number UN 2857 Circulation pump D3 max. delivery 210 l/min max. delivery pressure 4,7 bar Delivery at 1,1 bar 202 l/min Delivery at 1,5 bar 193 l/min Delivery at 2,0 bar 179 l/min Delivery at 3,5 bar 115 l/min Delivery at 3,5 bar 115 l/min Delivery at 4,6 bar 31 l/min Delivery at 4,5 bar 115 l/min Delivery at 4,5 bar 6 bar Delivery at 4,5 bar 6 bar	Internal temperature sensor	Pt100	Order-No.:	3021.0033.01
Safety classification	Sensor external connection	Pt100		
Device), RS232	Temperature stability at -10°C	0,2 K		
Safety classification III / FL Heating power 2 kW Cooling power 35 kW at 15°C 35 kW at -10°C 16 kW at -10°C 10 kW Refrigeration machine water-cooled, CFC- and HCFC-free Refrigerant (ASHRAE, GHS) R-449A (A1, H280) Global Warming Potential (GWP) 1397 UN-number UN 2857 Circulation pump D3 max. delivery 210 l/min max. delivery pressure 4,7 bar Delivery at 1,1 bar 202 l/min Delivery at 1,5 bar 193 l/min Delivery at 2,5 bar 159 l/min Delivery at 3,0 bar 140 l/min Delivery at 3,5 bar 115 l/min Delivery at 4,5 bar 31 l/min Delivery at 4,5 bar 31 l/min Delivery at 4,5 bar 115 l/min Delivery at 4,5 bar 115 l/min Delivery at 4,5 bar 31 l/min Delivery at 4,5 bar 15 l/min Delivery at 4,6 bar 15 l/min	Interface digital	Ethernet, USB (Host u.		
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at -20°C Refrigeration machine Refrigerant (ASHRAE, GHS) Reverse R	at 0°C	25 kW		
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Technical data according to DIN 12876

Power supply (3 Phase)	400V 3~ 50Hz	
Pressure equipment category	I	
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 G1 1/4 male, hose coupling cooling water for G3/4 male

Optional accessories:

Com.G@te, external sensor, temperature control / - connection hoses, thermofluids, 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 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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