

Unichiller 010-H

Chiller with air-cooled refrigerating unit and circulation pump. Evaporator (cooler), tank and housing of stainless steel. Pump made of industrial plastic material. Digital Temperature adjustment and digital temperature display. Level indicator with sight glass. With adjustable overtemperature protection according to 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.

3-2-2 warranty - registration required.

Technical data according to DIN 12876

temperature set point / display5,7" colour TouchscreenInternal temperature sensorPt100Sensor external connectionPt100Temperature stability at -10°C0,2 KInterface digitalEthernet, USB (Host u. Device), R5232Safety classificationClass III / FLHeating power at 240V2,1 kWHeating power at 220V1,8 kWCooling power at 230V1,8 kWCooling power at 230V0,8 kWat 15°C1 kWat -0°C0,5 kWat -20°C0,5 kWat -20°C0,5 kWRefrigeration machineair-cooled, CFC- and HCFC-freeRefrigeration pump:Immersion pumpmax. delivery pressure1 barDelivery at 0,5 bar2 l/minPump connection pump:1 barPump connection pump:1 barPump connection pump:3,8 lVolume of expansion3,7 lVolume of expansion3,7 lVolume of expansion57 kG(A)Power supply requirement20-240V 1-/2- 50/60Hzmax. duright53 kgSourd pressure level +/- 4 dB(A)57 dB(A)Power supply requirement14 AFuse16 ADegree of ProtectionIP20min. ambient temperature0°C	Operating temperature range	-20100 °C		
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Cooling power at ambient temperature +20°C.at 15°C1 kWat 0°C0,8 kWat -10°C0,5 kWat -20°C0,15 kWRefrigeration machineair-cooled, CFC- and HCFC-freeRefrigerant (ASHRAE, GHS)R449A (A1, H280)Refrigerant quantity0,33 kgCirculation pump:Immersion pumpmax. delivery29 l/minmax. delivery pressure1 barDelivery at 0,5 bar21 l/minPump connectionG3/4 malemin. filling capacity3,8 lVolume of expansion1,7 lOverall dimensions WxDxH **350x496x622 mmNet weight53 kgsound pressure level +/- 4 dB(A)57 dB(A)Power supply requirement220-240V 1-/2- 50/60Hzmax. current14 AFuse16 ADegree of ProtectionIP20min. ambient temperature5 °C	Heating power at 230V	2 kW		
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Power supply requirement220-240V 1~/2~ 50/60Hzmax. current14 AFuse16 ADegree of ProtectionIP20min. ambient temperature5 °C	Net weight	53 kg		
max. current14 AFuse16 ADegree of ProtectionIP20min. ambient temperature5 °C	sound pressure level +/- 4 dB(A)	57 dB(A)		
Fuse16 ADegree of ProtectionIP20min. ambient temperature5 °C	Power supply requirement	220-240V 1~/2~ 50/60Hz		
Degree of ProtectionIP20min. ambient temperature5 °C	max. current	14 A		
min. ambient temperature 5 °C	Fuse	16 A		
	Degree of Protection			
max. ambient temperature 40 °C	min. ambient temperature	5 °C		
	max. ambient temperature	40 °C		

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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*, Hose coupling for G3/4 male*, cover expansion tank*, connection tubes, Com.G@te.

* standard equipment

Output data valid for: Room temperature 20°C. If the ambient temperature rises, the cooling capacity may drop.

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

Special Case: Acetone and Polyglycol: The plastic pump is not resistant against acetone and polyglycols (depending on the manufacturer). It is recommended that water is mixed with either glysantine or ethylene glycol for freeze protection. A more resistant plastic is available on request at an additional cost.

Standard delivery conditions - Power cable configuration:

1. Single-phase devices (230V/115V) -> with cable and plug

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