# Unichiller 050

Chiller with air-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.

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 | -20...40 °C |
| temperature set point / display | 5,7" colour Touchscreen |
| Internal temperature sensor | Pt100 |
| Sensor external connection | Pt100 |
| Temperature stability at -10°C | 0,5 K |
| Interface digital | Ethernet, USB (Host u. Device), RS232 |
| Safety classification | I / NFL |
| Cooling power at ambient temperature +20°C | . |
| at 20°C | 5 kW |
| at 0°C | 4,6 kW |
| at -10°C | 3,4 kW |
| at -20°C | 2 kW |
| Refrigeration machine | air-cooled, CFC- and HCFC-free |
| Refrigerant (ASHRAE, GHS) | R-449A (A1, H280) |
| Global Warming Potential (GWP) | 1397 |
| Refrigerant quantity | 1,03 kg |
| CO2 equivalent | 1,4 t |
| Circulation pump: | E1 |
| max. delivery | 56 l/min |
| max. delivery pressure | 3,8 bar |
| Delivery at 0,3 bar | 53 l/min |
| Delivery at 0,5 bar | 51 l/min |
| Delivery at 1,0 bar | 46 l/min |
| Delivery at 1,5 bar | 40 l/min |
| Delivery at 2,0 bar | 34 l/min |
| Delivery at 2,5 bar | 27 l/min |
| Delivery at 3,0 bar | 18 l/min |
| Pump connection | G1 1/4 male |
| min. filling capacity | 18 l |
| Volume of expansion | 48 l |
| Overall dimensions WxDxH ** | 740x1160x1165 mm |
| Net weight | 284 kg |
| Power supply (3 Phase) | 460V 3~ 60Hz |
| max. current (3 Phase) | 6 A |
| Fuse (3 phase) | 3x16A |



**Order-No.: 3038.0006.01**

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| | |
|---|---|
| Pressure equipment category | Art. 4.3 PED |
| Degree of Protection | IP20 |
| min. ambient temperature | 5 °C |
| max. ambient temperature | 40 °C |

| **from Serial-No.:** | **S421089** | **1.0/21** |
|---|---|---|

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, Hose coupling for G1 1/4 male, , cover expansion tank,

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

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

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