# Minichiller 1000 OLÉ

Chiller with air-cooled refrigerating unit and circulation pump. Evaporator (cooler), tank and housing of stainless steel. Pressure-suction pump made of industrial plastic material. Digital Temperature adjustment and digital temperature display. Level indicator with sight glass.

OLÉ controller:
The controller combines state-of-the-art technology with simple operation. Models with OLÉ controller are suitable for routine tasks in research and industry and are convincing as practice oriented basic equipment:

* Large, bright OLED display
* Simple operation with menu navigation
* Simultaneous display of set point, internal temperature, Tmin and Tmax
* USB (Device) and RS232 interfaces
* Autostart function for power failure

Option: Pt100 sensor connection #10519 to display (not control) e.g. of the process temperature (only available factory fitted, additional charge)

4-year warranty - registration required.

| | |
|---|---|
| switch for whisper mode: | |
| Reduced sound pressure level: | 51 dB(A): +/- 4 dB(A) |
| Pump data for whisper mode: | |
| Delivery rate: | 14 l/min |
| Delivery pressure: | 0.2 bar |
| Delivery rate (suction): | 11 l/min |
| Delivery pressure (suction): | 0.18 bar |

**Technical data according to DIN 12876**

| | |
|---|---|
| Operating temperature range | -20...40 (80)*** °C |
| temperature set point / display | digital |
| Internal temperature sensor | Pt100 |
| Resolution of display | 0,1 K |
| Interface digital | USB (Device), RS232 Interface |
| Temperature stability at -10°C | 0,5 K |
| Alarm message | optic, acoustic |
| Safety classification | I / NFL |
| Cooling power | |
| at 15°C | 1 kW |
| at 0°C | 0,8 kW |
| at -10°C | 0,55 kW |
| at -20°C | 0,35 kW |
| Refrigeration machine | air-cooled, natural refrigerant |
| Refrigerant (ASHRAE, GHS) | R-1270 (A3, H220) |
| Global Warming Potential (GWP) | 0 |
| Refrigerant quantity | 0,099 kg |
| CO2 equivalent | 0,0 t |
| UN-number | UN 3358 |
| Circulation pump | Pressure- and suction pump |
| max. delivery | 24 l/min |
| max. delivery pressure | 0,7 bar |
| max. delivery (suction) | 18 l/min |
| max. delivery pressure (suction) | 0,4 bar |
| Pump connection | M16x1 male |
| min. filling capacity | 2,8 l |
| expansion tank | 2,2 l |
| Overall dimensions WxDxH ** | 280x511x454 mm |
| Power supply requirement | 110-120V 1~ 60Hz |
| Degree of Protection | IP20 |
| min. ambient temperature | 5 °C |
| max. ambient temperature | 40 °C |




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**from Serial-No.:** **1.0/26**

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

Included Accessories:

hose connector NW12 #6087, sleeve nuts thread M16x1#6089, blank plug #6088, cover expansion vessel #25178,

Optional accessories:

Drain valve #6839, 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
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 / 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

*** Permissible temperature in return line 80 °C