# Unichiller P022w OLÉ

Chiller with water-cooled refrigerating unit and circulation pump. Evaporator (cooler), tank and housing of stainless steel. Pump made of industrial plastic material. Temperature adjustment and temperature display digital. Adjustable bypass, level indicator with sight glass and digital manometer.

Unichiller „P“ Models: Circulating pumps with a high discharge pressure for applications with high pressure drops.

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.

**Technical data according to DIN 12876**

| | |
|---|---|
| Operating temperature range | -10...40 °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 | 2,2 kW |
| at 0°C | 1,6 kW |
| at -10°C | 1 kW |
| Refrigeration machine | water-cooled, CFC- and HCFC-free |
| Refrigerant (ASHRAE, GHS) | R-449A (A1, H280) |
| Global Warming Potential (GWP) | 1397 |
| Circulation pump | B |
| at 0,5 bar | 21 l/min |
| at 1,0 bar | 17 l/min |
| at 1,5 bar | 11 l/min |
| at 2,0 bar | 6 l/min |
| max. delivery | 25 l/min |
| max. delivery pressure | 2,5 bar |
| Pump connection | G3/4 male |
| Consumption at water 15°C, flow 15°C | 95 l/h |
| Consumption at water 15°C, flow 0°C | 96 l/h |
| Consumption at water 15°C, flow -10°C | 77 l/h |
| Cooling water connection | G1/2 male |
| min. cooling water differential pressure | 1 bar |
| max. cooling water pressure | 6 bar |
| min. filling capacity | 3,8 l |
| expansion tank | 1,7 l |
| Overall dimensions WxDxH ** | 420x487x579 mm |
| Net weight | 93 kg |
| sound pressure level +/- 4 dB(A) | 60 dB(A) |
| Power supply requirement | 208-230V 1~/2~ 60Hz |
| max. current | 10 A |
| min. Fuse | 2x10A |
| max. Fuse | 2x16A |




**Order-No.: 3010.0136.98**

**Technical data according to DIN 12876**

| | |
|---|---|
| Degree of Protection | IP20 |
| min. ambient temperature | 5 °C |
| max. ambient temperature | 40 °C |

**from Serial-No.:** **1.1/24**

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

Included Accessories:
cover expansion vessel #25178, hose coupling for G3/4 male, hose coupling cooling water for G1/2 male

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, 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
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