

Chiller with water-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. With adjustable overtemperature protection according to DIN 12876.

NEW: OLÉ controller:

OLÉ 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.

Special equipment:

- stainless steel case with feet (front) and rollers (rear)
- switch for whisper mode

pump data at whisper mode:

delivery:	14 l/min
delivery pressure:	0,2 bar
delivery (suction):	11 l/min
delivery pressure (suction):	0,18 bar
sound pressure level:	51 dB(A)

## Technical data according to DIN 12876

Operating temperature range	-20...100 °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	0,2 K
Alarm message	optic, acoustic
Safety classification	III / FL
Heating power at 240V	2,1 kW
Heating power at 230V	2 kW
Heating power at 220V	1,8 kW
Heating power at 208V	1,6 kW
Cooling power	
at 15°C	1,2 kW
at 0°C	0,9 kW
at -10°C	0,7 kW
at -20°C	0,35 kW
Refrigeration machine	water-cooled, natural refrigerant
Refrigerant (ASHRAE, GHS)	R290 (A3, H220)
Gas warning sensor	without
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
Consumption at water 15°C, flow 15°C	39 l/h
Consumption at water 15°C, flow 0°C	36 l/h
Consumption at water 15°C, flow -10°C	30 l/h



**Order-No.: 3078.0005.98**

## Technical data according to DIN 12876

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Consumption at water 15°C, flow -20°C	24 l/h
Cooling water connection	G1/2 male
min. cooling water differential pressure	3 bar
max. cooling water pressure	6 bar
min. filling capacity	2,8 l
expansion tank	2,2 l
Overall dimensions WxDxH **	280x490x424 mm
Power supply requirement	208-240V 1~/2~ 50/60Hz
Pressure equipment category	4.3 PED
Degree of Protection	IP20
min. ambient temperature	5 °C
max. ambient temperature	40 °C

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from Serial-No.:

1.0/23

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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.

Included Accessories:

hose connector NW12 #6087, sleeve nuts thread M16x1#6089, blank plug #6088, cover expansion vessel #25178, hose coupling for cooling water G1/2 male

Optional accessories:

Drain valve #6839, temperature control / -connection hoses, thermofluids, further accessories, etc.: see catalog.

Output data valid for: Room temperature 20°C, cooling water inlet 15°C and 3 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. Materials 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](http://www.huber-online.com)