

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. Temperature control unit without integrated heating.

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)

3-2-2 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	-25...40 °C
temperature set point / display	digital
Internal temperature sensor	Pt100
Temperature stability at -10°C	0,5 K
Alarm message	optic, acoustic
Safety classification	Class I / NFL
Cooling power	
at 15°C	0,9 kW
at 0°C	0,7 kW
at -10°C	0,4 kW
at -20°C	0,2 kW
Refrigeration machine	water-cooled, natural refrigerant
Refrigerant	R290
Refrigerant quantity	0,06 kg
Gas warning sensor	without
Circulation pump	Pressure- and suction pump
max. delivery	24 l/min
max. delivery pressure	0.9 bar
max. delivery (suction)	18 l/min
max. delivery pressure (suction)	0,4 bar
Pump connection	M16x1 male
Cooling water connection	G1/2 male
max. cooling water pressure	6 bar
min. filling capacity	2,8 l
expansion tank	2,2 l
Overall dimensions WxDxH **	280x490x414 mm
Net weight	36 kg
sound pressure level	58 dB(A)
Power supply requirement	230V 1~ 50Hz
max. current	3,5 A
min. Fuse (1 phase)	10A



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max. Fuse (1 phase)	16A
Degree of Protection	IP20
min. ambient temperature	5 °C
max. ambient temperature	40 °C

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**from Serial-No.:** **310084** **1.0/18**

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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 NW8 #6086, 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 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-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

\*\* Please respect space requirements. See operating conditions at [www.huber-online.com](http://www.huber-online.com)