Huber LCS 80

Chiller with air-cooled refrigerating unit and circulation pump (stainless steel). Housing, atmospheric open tank and copper soldered evaporator made of stainless steel. With digital level indicator. Condenser in air-cooled design, performance-optimized by a built-in high-efficiency fan motor. Powerful feed pump with integrated overtemperature protection. The flow rate can be adjusted via the manual bypass valve on the backside of the chiller.

Control unit B400 / RB400:
Capacitive operating interface with OLED display and multi-coloured status notification for instant identification of the current operating status. Choice of eight different system languages (DE, EN, ES, FR, IT, PT, RU, TR). Separate operating option for the feed pump and the cooling unit with convenient adjustment of the desired setpoint. Operating of the system can be evaluated on a PC or notebook via an integrated RS232 interface.

Special Version:
- 100% of rated cooling power up to +35°C environmental temperature
- Reduction of cooling power above +35°C environmental temperature
- Suitable for outside mounting (min. environmental temperature -20°C)
- Delivered with remote control: operating panel connected via 20m cable
- Protection classification of the electrical components IP54
- max. ambient temperature +50°C

Technical data according to DIN 12876

Operating temperature range	-45...15 °C
temperature set point / display	colour LED Touchscreen
Internal temperature sensor	Pt100
Temperaturkonstanz bei -40°C	2 K
Interface digital	RS232
Safety classification	I / NFL
Cooling power at ambient temperature 20°C	.
at 15°C	20 kW
bei -15°C	20 kW
at -20°C	18 kW
at -25°C	16 kW
at -30°C	12 kW
at -40°C	8,5 kW
Kälteleistung bei Umgebungstemperatur 35°C	.
at 15°C	20 kW
bei -15°C	20 kW
at -20°C	18 kW
at -25°C	16 kW
at -30°C	12 kW
at -40°C	8,5 kW
Kälteleistung bei Umgebungstemperatur 40°C	.
at -40°C	8 kW
Refrigeration machine	air-cooled, CFC- and HCFC-free
Refrigerant (ASHRAE, GHS)	R-449A (A1, H280)
Refrigerant quantity	16 kg
Circulation pump:	
max. delivery	53 l/min
max. delivery pressure	4,7 bar
Pump connection	G1 male
min. filling capacity	40 l
Bath volume advance warning	75 l
max. filling capacity	105 l
Overall dimensions WxDxH **	2015x1100x2000 mm
Net weight	880 kg
sound pressure level +/- 4 dB(A)	77 dB(A)
Power supply (3 Phase)	460V 3~ 60Hz
max. current (3 Phase)	50 A
Fuse (3 phase)	3x60A
min. ambient temperature	-20 °C
max. ambient temperature	50 °C

Order-No.: VDH32100163

from Serial-No.: **1.1/21**

Technical data according to DIN 12876

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

Included Accessories:
2pcs Hose nozzles Ø25 mm, bath cover, Bypass valve

Optional accessories:
overpressure Bypass valve, drain valve, RS232 cable, temperature control / - connection hoses, thermofluids, further accessories, etc.: see catalog

Output data valid for: Room temperature 20°C to 50°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

Recommended thermofluid: Temper -55 (Heat Transfer Fluid)

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