

Refrigerated Heating Bath with air-cooled refrigerating unit and MPC-Controller. Consisting of isolated cooling bath made of stainless steel with immersion thermostat. Powerful pressure and suction pump made of industrial plastic material. Wetted parts made from stainless steel or high-resistant plastics. With adjustable overtemperature protection according to DIN 12876.

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 glysantin or ethylene glycol for freeze protection. A more resistant plastic is available on request at an additional cost.

MPC-Controller:

Modern and easy to use microprocessor controller with a large temperature display.

Limited to essential functions only:

- \* Simple operation using only 3 keys
- \* Large temperature display, actual temperature and set point
- \* LED indicators for pump, cooling and heating
- \* RS232/serial with the LAI commands G,v,L; (SpyLight compatible)

### Technical data according to DIN 12876

Operating temperature range	-25...200 °C
Temperature stability at 70°C	0,05 K
Temperature adjustment	digital
Temperature indication	digital
Absolute accuracy	setup for calibration
Internal temperature sensor	Pt100
Safety classification	Class III / FL
Heating power	2 kW
Cooling power	
at 20°C	0,2 kW
at 0°C	0,15 kW
at -10°C	0,1 kW
at -20°C	0,05 kW
Refrigeration machine	air-cooled, natural refrigerant
Refrigerant	R290
Refrigerant quantity	0,047 kg
Gas warning sensor	without
max. delivery	20 l/min
max. delivery pressure	0.2 bar
Suction pump	yes
max. delivery (suction)	17 l/min
max. delivery pressure (suction)	0,18 bar
Pump connection	M16x1 male
Pump connection	NW8/12
Bath volume	4,5 l
Width bath opening WxD	140x120 mm
Bath depth	150 mm
Height of bath opening	376 mm
Overall dimensions WxDxH **	210x400x546 mm
Net weight	25 kg
Power supply requirement	230V 1~ 50/60Hz
max. current refrigerated bath	1,35 A
max. current immersion thermostat	10 A
min. Fuse (1 phase)	10A
max. Fuse (1 phase)	16A
min. ambient temperature	5 °C
max. ambient temperature	40 °C



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**from Serial-No.: 130591**

**1.1/13**

Technical details and dimensions are subject to change. No liability is accepted for errors or omissions.

## Technical data according to DIN 12876

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Accessories and periphery: , Hose connector NW 12 #6087\* , blank plug #6088\* , nut #6089\* , bath cover #14451\* , data cable #9472

\* , drain valve , PS level regulator #9580

\* standard equipment

Output data valid for: Room temperature 20° C

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

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