Water chiller

TT-14'500 H

Air cooled water chiller with integrated heating capability for the water circuit
Mobile unit for individual machine or multi-machine application

For water temperatures from +10°C up to +40°C,
at ambient temperatures up to +45°C

- **Closed water circuit**
- **No useless water consumption**

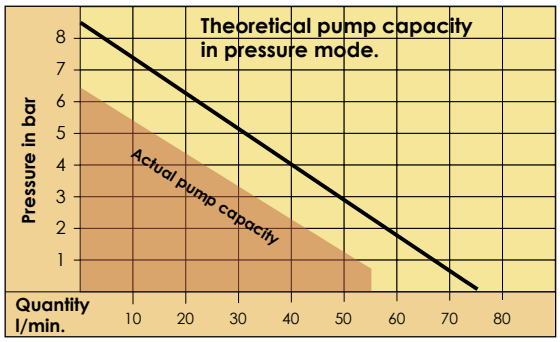
Electronic flow control with digital readout

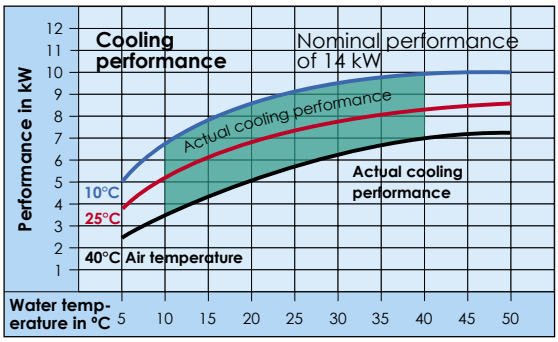
Operating principle

The unit is equipped with a 50 l corrosion resistant water tank. The cooling compressor cools the water content to the required temperature. The resultant heat generated leaves the unit through the side panels. Should the water temperature be too low, the heating element will be activated automatically. The sealless corrosion free bronze-pump ensures years of problem-free use.

- All components are made of corrosion resistant stainless steel or bronze.
- Digital flow indication with control of the minimum flow rates in l/m, or English/American gal./m.
- Self-optimizing microprocessor controller with digital display of the set and actual value. Indication in 1/10°C range. Temperature display can be set to readout °C or °F.
- Long life expectancy due to the electronic control of the compressors operating time.
- If the water in the system does not reach the required temperature, the built-in heating will be activated automatically.
- Automatic or manual water refill.
- Automatic level control with pre-warning at low water level.
- Audible alarm and visual indication in case of failure.
- Castors.

OZONE FRIENDLY TOOL-TEMP FCKW/CFC free





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Technical Data

Temperature control	Self-optimizing microprocessor controller MP-888 with digital display of the set and actual value. Automatic temperature monitoring.
Cooling capacity	
Nominal capacity	**14 kW – see diagram**
Temperature range	
Circulating water	+10°C bis +40°C
Air temperature	+2°C bis +45°C
Heating	6 kW, manual setting
Content water tank	approx. 50 l
Coolant	R-134a
Pump capacity	max. 8,5 bar / max. 75 l/min – see pump diagram
Compressor	Hermetically sealed
Condenser	Air cooled, air inlet located at the front, blow out located on the side/rear
Air volume	2'850 m3/h
Power consumption	**approx. 8 kW** (heating mode approx. 8 kW, cooling mode approx. 5 kW)
Connections	
TO-/FROM mould	3/4" BSP female thread
Automatic water refill	3/8" BSP female thread
Dimensions	Length: 980 mm x Width: 660 mm x Height: 1'300 mm incl. castors
Noise level (in 3 m distance)	68 dBA
Weight	190 kg empty
Colour	Silver grey RAL 7001 Option: Stainless steel case, not varnished

TT-14'500 H/WK:
The same model is also available as water cooled version.
Required cooling water: minimum 1,5 bar water pressure.
With cooling tower water (approx. 30°C) approx. 20 - 40 l/min cooling water consumption
With tap water (approx. 10 - 15°C) approx. 10 - 20 l/min cooling water consumption

Electronic temperature controller MP-888

The electronic controller can be adjusted to indicate °C or °F. The higher turning on point and lower turning off point (hysteresis) of the temperature band can be adapted. Due to this, the time range between the start and stop point of the compressor is wider and the compressor has a longer lifetime.

Set temperature (required temperature)
Adjustable in $^{1}/_{10}$° range

Actual temperature (effective temperature) displayed in $^{1}/_{10}$° range

Indication of flow rate in different units, possible are litres per minute with $^{1}/_{10}$ litres display. Switchable from English to American gallons. As soon as the flow falls below a minimum, the alarm is activated.

Flow control with automatic or manual pre-adjusted mode:
Automatic: The electronic flow control measures the actual flow, generates automatically a minimum flow and as soon as the flow falls below this value, the alarm will be activated.
Manual: The minimum flow can be adjusted manually. As soon as the flow falls below this value, the alarm will be activated.

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