

# Water chiller

# TT-5'500 E

Air cooled Water Chiller, with integrated heating capability in the water circuit.

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

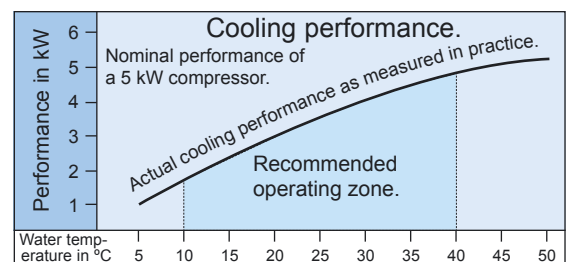
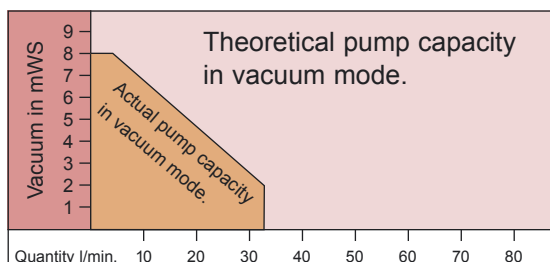
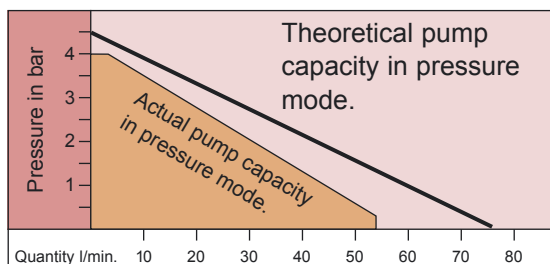
- Closed water circuit
- No useless water consumption
- With "leak stopper" device
- Electronic flow control with digital readout



## Operating Principle

The unit is equipped with a 25 l corrosion resistant water tank, which is cooled with the aid of a compressor 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 is automatically activated. The sealless bronze corrosion free 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.
- Temperature display can be set to indicate °C or °F.
- The electronic check of the length of time that the compressor stays on enhances its longevity.
- When the water in the system does not reach the required temperature, the built-in heating will activate automatically.
- Filling the water system can be done automatically or manually.
- Automatic low water level control/detection is achieved through a series of early warning signals.
- Audible alarm in case of failure. The early warning of low level is communicated by a continuous sound. All other alarms are communicated by an intermittent sound.



TOOL-TEMP®

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## Technical data

<b>Temperature control</b>	Self-optimising MP-888 microprocessor controller with digital display set and actual temperatures
<b>Cooling capacity</b>	Nominal 5 kW (see diagram)
<b>Heating capacity</b>	5 kW, manual setting
<b>Temperature range</b>	
<i>Water in system</i>	+10°C up to +40°C
<i>Ambient temperature</i>	+2°C up to +45°C
<b>Water tank capacity</b>	Approx. 25 l
<b>Coolant</b>	R-134a
<b>Pump capacity</b>	
<i>Pressure mode</i>	Max. 4,5 bar / max. 75 l/min.
<i>Vacuum mode</i>	Max. 8 mH <sub>2</sub> O (water column)
<b>Compressor</b>	Hermetically sealed
<b>Condensator</b>	air cooled, air inlet located on the rear, blow out located on the side.
<b>Air volume</b>	1'700 m <sup>3</sup> /h
<b>Power consumption</b>	<b>Approx. 8 kW up to 10 kW</b>
<b>Connections</b>	
<i>To/From Mould</i>	3/4" female thread
<i>Automatic water refill</i>	3/8" female thread
<b>Dimensions</b>	Length: 950 x Width: 365 x Height: 740 mm, incl. castors
<b>Noise level</b>	66 DbA (at a distance of 3 m)
<b>Weight</b>	Approx. 115 kg (empty)
<b>Colour</b>	Silver grey RAL 7001, <b>Optional:</b> stainless steel case (not varnished)

## Electronic temperature controller MP-888

The electronic controller can be adjusted to indicate °C or °F. The analogue interfaces 0 – 5 V, 0 – 10 V and 4 – 20 mA are standard included in the controller – there is **no additional price** for them.

The self-optimizing feature on this controller allows a very high regulating accuracy even at high temperatures and adheres to the set temperatures independently of the consumer.



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.

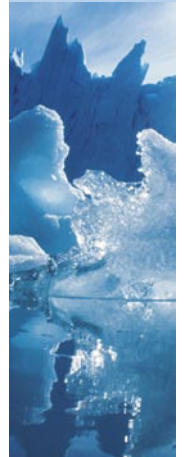
### Flow control with automatic or manual pre-adjusted mode:

**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.

## TOOL-TEMP product range

Temperature control units	approx. 60 models for the plastic industry, for the die casting industry, for the pharma industry and the chemistry - from 3 kW up to 144 kW heating capacity
Water chillers	from 5 kW up to 500 kW cooling capacity
Conditioning baths	for polyamide parts



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