

Water Chiller

TT-29'800 WK

Water cooled unit for low temperatures with water-glycol mixture
Mobile unit for individual machines or multi-machine applications

Operational use: with water-glycol from -25°C up to $+25^{\circ}\text{C}$
Application range: max. $+45^{\circ}\text{C}$

No unnecessary water consumption due to a closed water-glycol circuit

Electronic flow control with digital display

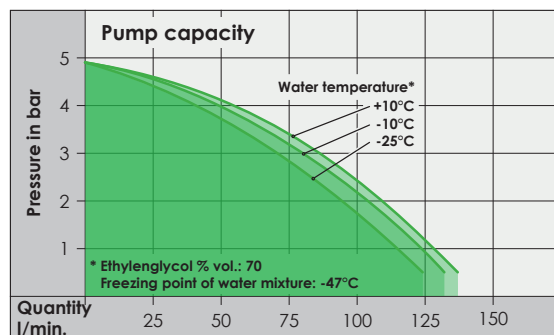
Operating principle

The unit is equipped with a corrosion free water tank with a content of approx. 150 litres. Once the water has cooled down to the required temperature, the compressor cuts out. It switches on again after the temperature has increased. The switch-on-point can be adjusted on the digital microprocessor controller. The circulation pump is running continuously.

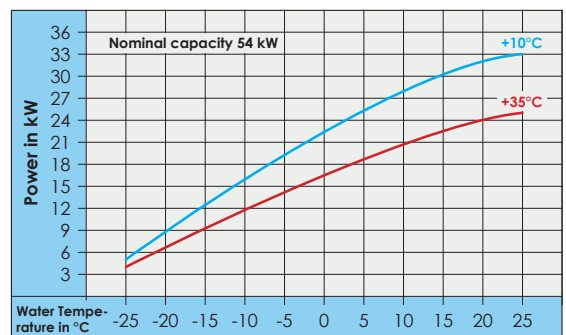
- Self-optimizing microprocessor controller with digital display of the set and actual temperature. With high precision regulation in $1/10^{\circ}$ range; can be adjusted to read $^{\circ}\text{C}$ or $^{\circ}\text{F}$.
- Digital flow indication with control of the minimum flow.
- All components in contact with water are made of corrosion resistant stainless steel or bronze.
- Long life expectancy due to the electronic control of the compressors operating time.
- Automatic or manual water refill.
- Automatic level control with prewarning at low water level.
- Horn in case of failure.
- All failures are visually indicated.
- Unit on castors.



Pump capacity



Cooling capacity



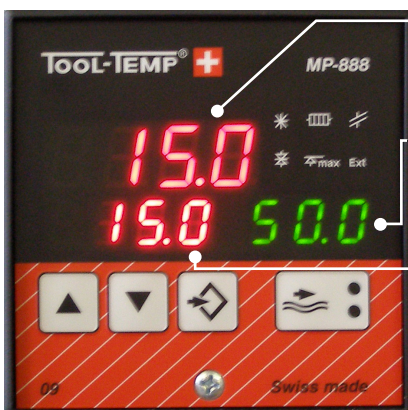
TOOL-TEMP®

Technical data

Temperature control	self-optimizing, electronic microprocessor controller MP-888 with digital display of the set and actual value. Automatic temperature monitoring.
Flow control	electronically, with digital display and automatic control of the minimum flow.
Cooling capacity	54 kW - see diagram
Temperature range	-25°C up to +25°C
Content water tank	min. 120 liters, max. 170 liters
Refrigerating agent	R-404a
Pump capacity	max. 4.8 bar / max. 140 l/min - see pump diagram
Compressor	hermetically sealed
Condenser	water cooled
Required water amount	approx. 60 - 90 l/min with cooling tower water at max. 35°C approx. 40 - 50 l/min with tap water at 10-15°C
Power consumption	approx. 15 kW
Connections	
<i>To mould</i>	1" BS female thread
<i>From mould</i>	2" BS female thread
<i>cooling water inlet</i>	1" BS female thread
<i>cooling water outlet</i>	1" BS female thread
<i>Drain</i>	½" BS female thread
Dimensions (L×B×H)	1'100 × 790 × 1'660 mm, inclusive castors
Noise Level (in 3 m distance)	66 dBA
Weight	approx. 390 kg empty
Colour	Silvergrey RAL 7001

Electronic temperature controller MP-888

The electronic controller can be adjusted to indicate °C or °F. The upper 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 life expectancy.



Set temperature / required temperature
Adjustable in 1/10° range

Actual temperature (effective temperature) displayed in 1/10° range

Indication of flow with 1/10 display. Switchable from liter to English or 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.