

Temperature Control Unit

TT-108 E

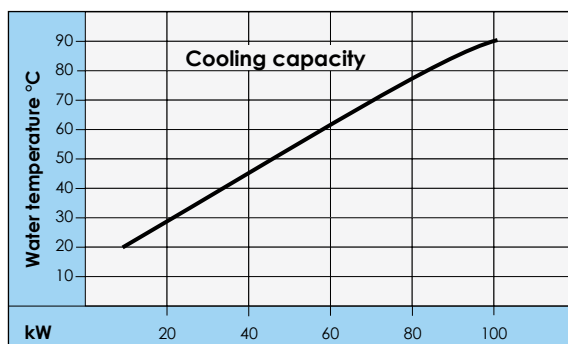
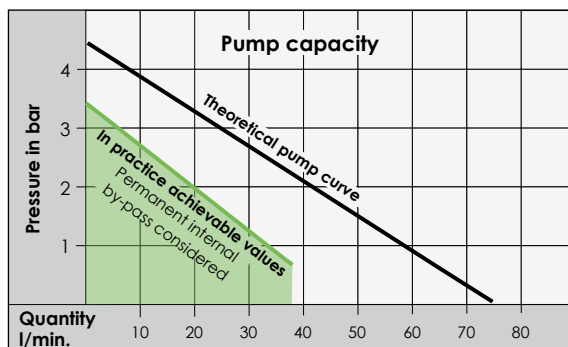
Powerful water temperature control unit with direct cooling
(enormous cooling capacity)

Operational use: with water up to 90°C mould weight up to 1'200 kg



Features included

- Self-optimizing temperature controller with digital display of the set and actual temperature. With high precision regulation in $1/10^{\circ}$ range; can be adjusted to read °C or °F.
- Automatic temperature control - difference between set and actual temperature activates an alarm.
- Submersible seal less pump manufactured from bronze.
- Pressure is indicated by manometer.
- Automatic water filling.
- Corrosion resistant unit (longevity).
- All components in contact with water are made from stainless steel or bronze.
- Heating switchable in stages.
- Safety devices:
 - Automatic level control for dry run protection.
 - Electronic temperature limiter in the controller and separate mechanical safety thermostat.
 - Main switch, transformer and motor protection switch.
 - Horn in case of failure.
- All failures are visually indicated.
- Unit on castors.



Particularities

- Digital flow indication with control of the minimum flow.
- Reversing switch for temperature regulation at the mould.
- Automatic mould drain.
- Leakstopper device - unit can be used in pressure or vacuum mode. No medium is lost on leaking tools, therefore ensuring continued production.

Operating principle

This model has only a direct cooling. Once the cooling starts, cooling water is pumped into the tank of the unit. The excess water in the tank leaves the temperature control unit through the overflow tube. It is important that the backflow has no counter pressure.



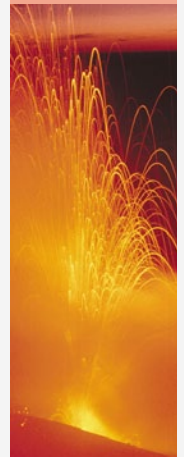
TOOL-TEMP®

Technical data:

There are 3 different models available

Temperature range	up to 90°C with water		
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.		
Heating capacity	6 kW	12 kW	18 kW
<i>Switchable in stages</i>	3/3	3/9	9/9
Cooling capacity	approx. 100 kW at 90°C		
Pump capacity	motor 0,75 kW		
<i>Pressure mode</i>	max. 4,5 bar / max. 75 l/min		
<i>Vacuum mode</i>	vacuum max. 8 mH ₂ O		
Filling amount	20 litres		
Filling	automatic		
Connections			
<i>Medium</i>	½" BSP female thread		
<i>Cooling water</i>	inlet	water filter ¾" BSP female thread	
	outlet	1" BSP male thread	
Dimensions (LxWxH)	710 x 325 x 785 mm, incl. castors and handles		
Weight	approx. 67 kg empty		
Colour	silvergrey RAL 7001		

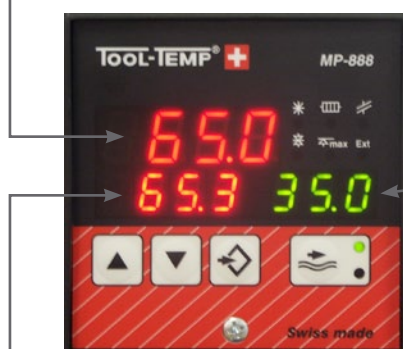
All possible voltages are available from 3 x 200 V to 3 x 600 V and 50/60 Hz. The units are available conform to UL/CSA specifications. For the USA market the units are equipped with NPT-thread connections and the controller is adjusted to indicate °F.



Electronic temperature controller MP-888

The electronic controller MP-888 can be operated to read °C or °F. The analog interfaces 0-5 V, 0-10 V and 4-20 mA are standard included in the controller - **without additional costs**.

Set temperature / required temperature adjustable in 1/10° range.



Actual temperature / effective temperature displayed in 1/10° range.

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 size.

Flow control:

The indication of the flow rate is possible in litres or gallons per minute. As soon as the flow falls below a minimum, the alarm is activated.