

# Temperature Control Unit

# TT-180

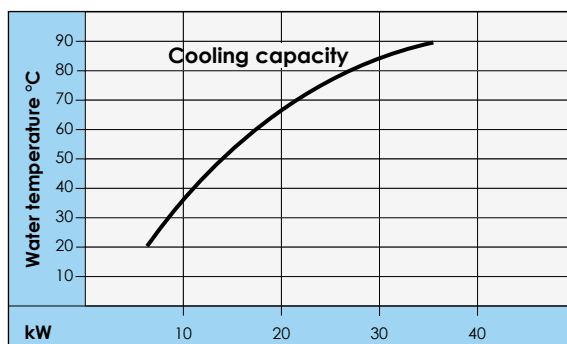
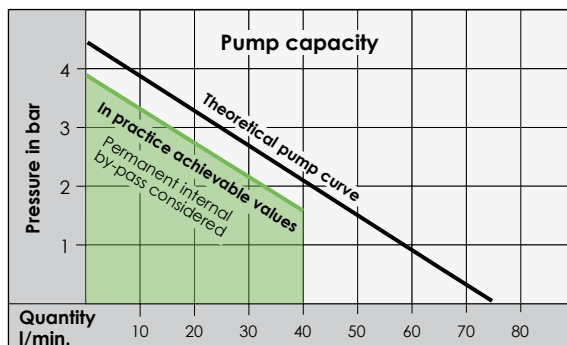
Universal small temperature control unit with remarkable cost/performance ratio

Operational use: with water up to 90°C      mould weight up to 600 kg  
with oil      up to 150°C      mould weight up to 300 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  $^\circ\text{C}$  or  $^\circ\text{F}$ .
- 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 or manual refill.
- Lime scale free heat exchanger.
- Corrosion resistant unit (longevity).
- All components in contact with water are made of corrosion resistant stainless steel or bronze.
- Heating switchable in stages.
- Safety devices:
  - 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.



**TOOL-TEMP**<sup>®</sup>

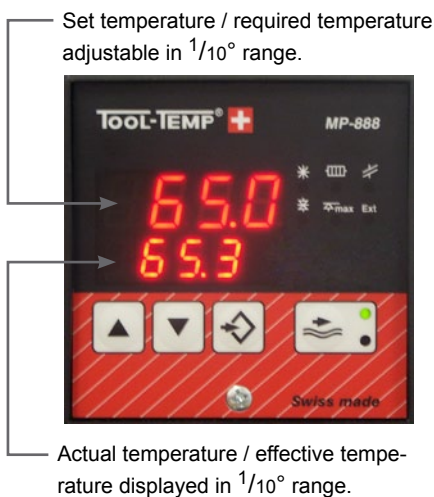
## Technical Data

<b>Temperature range</b>	with water up to 90°C	with oil up to 150°C
<b>Temperature control</b>	self-optimizing, electronic microprocessor controller MP-888 with digital display of the set and actual value. Automatic temperature monitoring.	
<b>Heating capacity</b> <i>Switchable in stages</i>	<b>9 kW water operation</b> 3 / 6	<b>3 kW oil operation</b> none
<b>Cooling capacity</b>	35 kW at 90°C - see diagram	
<b>Pump capacity</b> <i>Pressure mode</i>	motor 0,75 kW max. 4,5 bar / max. 75 l/min.	
<b>Content of unit</b>	min. 5 litres, max. 7 litres	
<b>Connections</b>		
<i>Medium</i>	1/2" BSP female thread	
<i>Cooling water</i>	3/8" BSP male thread, inlet with water filter 3/8" BSP female thread	
<b>Dimensions (L×W×H)</b>	670 × 260 × 650 mm, incl. castors	
<b>Weight</b>	approx. 55 kg empty	
<b>Colour</b>	silvergrey RAL 7001	

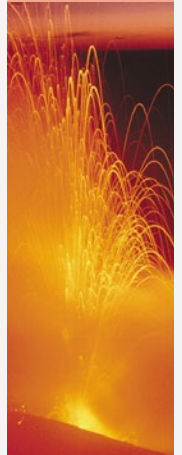
All possible voltages are available from 3 x 200 V to 3 x 600 V and 50/60 Hz. The units are available conform to UL/CSA specifications. For the USA market the units are equipped with NPT-thread connections and the controller is adjusted to indicate °F.

## 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**.



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.



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