

# Temperature Control Unit

# TT-1500 W

For temperatures from 20°C up to 90°C with direct cooling  
(enormous cooling capacity)

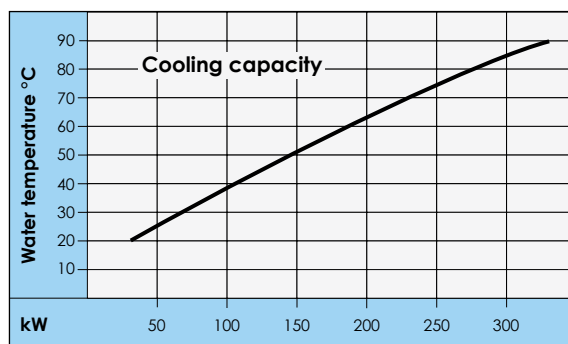
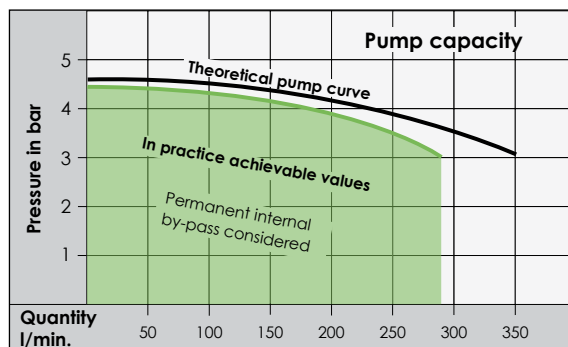
## Operational use:

rollers, plates, double walled vessels and other heavy duty use



## 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.
- Indication of the pump pressure.
- Automatic water filling.
- Automatic aeration.
- All components in contact with water are made from stainless steel.
- 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 feet.



## Particularities

- Digital flow indication with control of the minimum flow.
- Mould drain by compressed air ensures complete emptying of the consumer.

## 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 cooling water outlet.



# TOOL-TEMP®

## Technical data

<b>Temperature range</b>	20°C up to 90°C with water
<b>Temperature control</b>	self-optimizing, electronic microprocessor controller MP-888 with digital display of the set and actual value. Automatic temperature monitoring.
<b>Flow control</b>	electronically, with digital display and automatic control of the minimum flow.
<b>Heating capacity</b> <i>Switchable in stages</i>	<b>48 kW</b> 8/8/8/8/8/8
<b>Cooling capacity</b>	285 kW at 80°C
<b>Pump capacity</b>	motor 4 kW max. 4,6 bar / max. 350 l/min
<b>Filling amount</b>	75 litres
<b>Filling</b>	automatic
<b>Mould drain</b>	with compressed-air
<b>Connections</b>	
<i>Medium</i>	flange DN32/PN16
<i>Cooling water</i>	1" BSP female thread
<i>Compressed-air</i>	¼" BSP female thread
<b>Dimensions (LxWxH)</b>	1'600 x 800 x 1'550 mm
<b>Weight</b>	approx. 430 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**.

Set temperature / required temperature adjustable in  $\frac{1}{10}^\circ$  range.

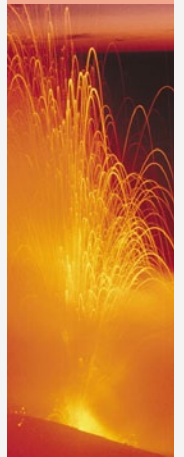


Actual temperature / effective temperature displayed in  $\frac{1}{10}^\circ$  range.

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.



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