

# Temperature Control Unit

# TT-1358 W

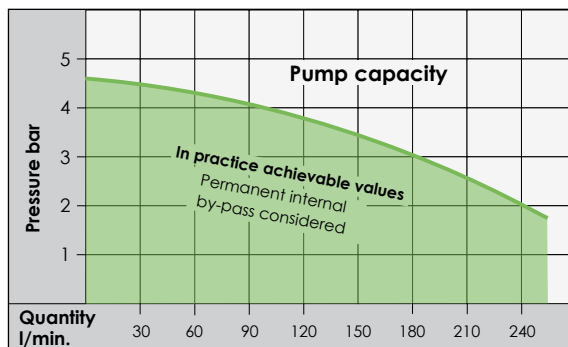
Powerfull pressurised water unit with very high cooling capacity for temperature up to 130°C

Operational use:  
rollers, plates and other heavy duty use



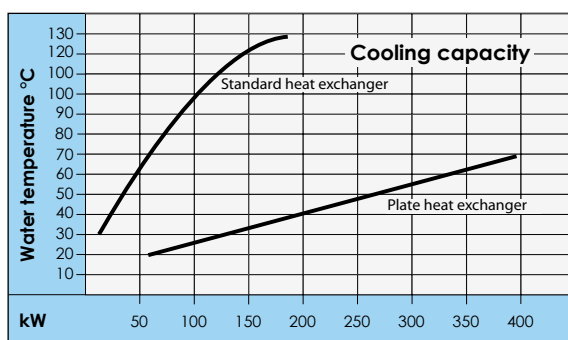
## Features included

- 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.
- Digital flow indication with control of the minimum flow.
- Indication of the pressure to the mould and of the system pressure.
- Automatic pressure discharge, aeration and water filling.
- Lime scale free heat exchanger.
- 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.



## Unit equipped with 2 heat exchangers:

- Standard heat exchanger from 80°C up to 130°C
- Plate heat exchanger below 80°C



## Options

- Equipped with the controller MP-988 allows over 30 different digital interfaces: RS-232, RS-485, Current Loop 20mA, CAN-bus, Profibus etc.
- Digital clock timer.
- External command of the controller.
- Collective alarm.

## HEADQUARTERS & MANUFACTURER

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## Technical data

<b>Temperature range</b>	up to 130°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 automatic shut down of the heating capacity which is not required.
<b>Cooling capacity</b>	increased cooling capacity by switching to the plate heat exchanger standard heat exchanger approx. 180 kW at 130°C plate heat exchanger approx. 400 kW at 70°C
<b>Pump capacity</b>	motor 4 kW max. 4,5 bar / max. 250 l/min
<b>Filling</b>	automatic
<b>Connections</b> <i>Medium</i> <i>Cooling water</i>	female thread flange DN-25 1½" BSP female thread
<b>Dimensions (L×W×H)</b>	1'710 × 790 × 1'540 mm
<b>Weight (empty)</b>	approx. 650 kg
<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 controllers

The electronic controllers MP-888 and MP-988 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 controllers - **without additional costs**.

The self-optimizing feature on these controllers 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.

### Standard controller MP-888



#### Analog interfaces

- 0 - 5 V, 0 - 10 V, 4 - 20 mA

### Digital interface controller MP-988 (Optional)



#### Analog interfaces

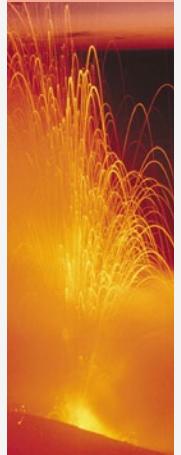
- 0 - 5 V, 0 - 10 V, 4 - 20 mA

#### Digital interface

- RS-485, RS-232, Current Loop 20 mA, CAN-bus, Profibus
- Incl. all existing machine protocols

#### Temperature difference monitoring

Indication of up to three temperatures



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