

Temperature Control Unit

TT-1398

Small, powerful pressurised water unit for small injection moulds

Operational use: with water up to 140°C

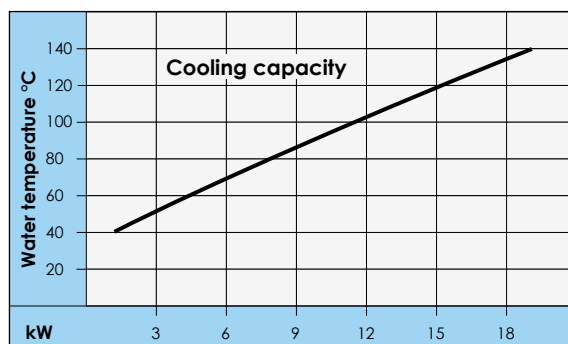
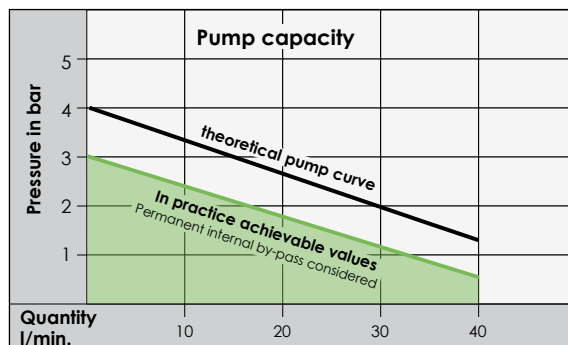
Standard unit with controller MP-888

Unit with digital interface controller MP-988



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 system pressure.
- Pressure discharge, aeration and water filling.
- Lime scale free heat exchanger.
- Standard pump with axial face seal.
- All components in contact with water are made of 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 as failure indication.
- All failures are also indicated visually.
- Unit on castors.



Optional

Equipped with the controller MP-988 allows over 30 different digital interfaces: RS-232, RS-485, Current Loop 20mA, CAN-bus, Profibus etc.

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TOOL-TEMP®

Technical data

Temperature range

water up to 140°C

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 monitoring of the minimal flow.

Heating capacity

Switchable in stages **6 kW**
3/3

Cooling capacity

approx. 20 kW at 140°C

Pump capacity

motor 1,3 kW
max. 4 bar / max. 40 l/min.

Filling

automatic

Connections

Medium ½" BSP female thread
Cooling water ¾" BSP female thread, inlet with water filter ¾" female thread

Dimensions (L×W×H)

680 × 305 × 760 mm, incl. castors

Weight

approx. 70 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 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



Set temperature
(required temperature)

Actual temperature
(effective temperature)

Indication of the flow

Analog interfaces

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

Digital interface controller MP-988 (Optional)



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

Analog interfaces

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