

Temperature Control Unit

TT-142 N

Robust, powerful pressurised water unit with 12 kW heating capacity

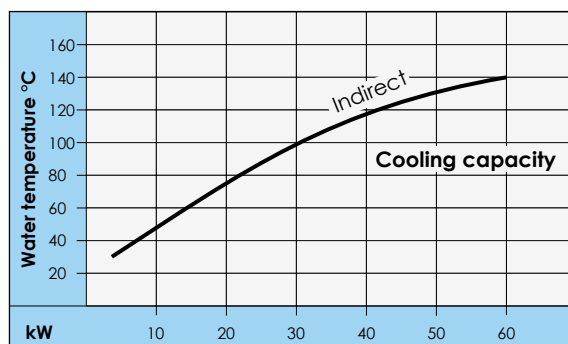
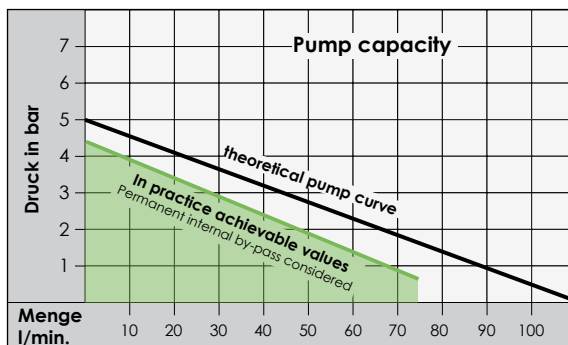
Operational use:

Model N with water up to 140°C pump with axial face seal



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.
- Indication of the pressure to the mould and 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:
 - 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.
- Optional with digital interface controller MP-988.

HEADQUARTERS & MANUFACTURER

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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 control of the minimum flow.

Heating capacity

12 kW

Switchable in stages 6/6

Cooling capacity

Indirect approx. 60 kW at 140°C

Pump capacity

motor 1,8 kW

Pressure mode max. 5 bar / max. 110 l/min.

Vacuum mode vacuum max. 8 mH₂O

Pressure increasing pump

no

Temperature measurement at the mould

no

Pressure discharge and mould drain

yes

Leakstopper

no

Filling

automatic

Connections

Medium ¾" BSP female thread

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

Dimensions (L×W×H)

870 × 360 × 915 mm, incl. castors

Weight

approx. 107 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

