

Temperature Control Unit

TT-142 N

Robust, powerful pressurised water unit with 12 kW heating capacity

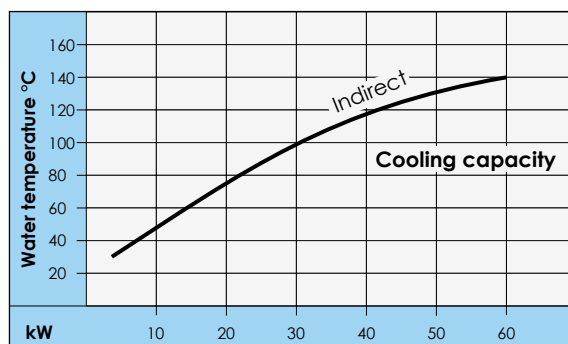
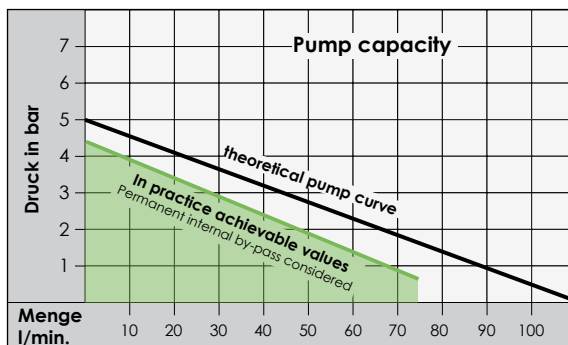
Operational use:

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.



TOOL-TEMP[®]

Technical data

Temperature range <i>water</i>	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 <i>Switchable in stages</i>	12 kW 6/6
Cooling capacity <i>Indirect</i>	approx. 60 kW at 140°C
Pump capacity <i>Pressure mode</i> <i>Vacuum mode</i>	motor 1.8 kW max. 5 bar / max. 110 l/min. vacuum max. 8 mH ₂ O
Pressure increasing pump	no
Temperature measurement at the mould	no
Pressure discharge	yes
Leakstopper and mould drain	no
Filling	automatic
Connections <i>Medium</i> <i>Cooling water</i>	¾" BSP female thread 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



Analog interfaces

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

Digital interface controller MP-988 (Optional)



Analog interfaces

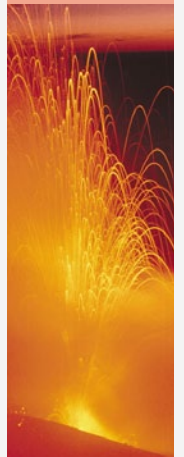
- 0 - 5 V, 0 - 10 V, 4 - 20 mA

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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