Temperature Control Unit

TT-118 K

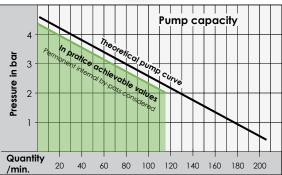
Temperature control unit with very high cooling capacity over the entire operation range

Operational use: with water from 25°C up to 90°C

- Rollers
- Plates
- Double walled vessels
- Other large consumers







Features included

- Self-optimizing temperature controller with digital display of the set and actual temperature. With high precision regulation in ¹/₁₀° range; can be adjusted to read °C or °F.
- Automatic temperature control difference between set and actual temperature activates an alarm.
- Submersible seal less pump manufactured of bronze.
- · Pressure is indicated by manometer.
- Automatic water filling.
- Lime scale free heat exchanger.
- Corrosion resistant unit (longevity).
- All components in contact with water are made of stainless steel or bronze.
- Heating switchable in stages the unnecessary heating capacity will switch off automatically once the required temperature has been reached, meaning it only regulates with the needed heating power.
- · 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 in case of failure.
- All failures are visually indicated.
- · Unit on castors.

Unit equipped with 2 heat exchangers:

- Standard heat exchanger from 50°C up to 90°C
- Plate heat exchanger below 50°C

Standard heat exchange 80 70 temperature temperature 60 50 Plate heat exchange Water Cooling capacity 20 kW 150 50 100 200 250 300 350 400

Particularities

- Digital flow indication with control of the minimum flow.
- Reversing switch for temperature regulation at the mould
- · Time-limited water refill.
- Leakstopper device unit can be used in pressure or vacuum mode. No water is lost at leaking tools, therefore ensuring continuous production.
- Optional with digital interface controller MP-988.

HEADQUARTERS & MANUFACTURER

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OOL-IEMP

Technical data: There are 4 different models available

Temperature control	self-optimizing, electronic microproce	ssor 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.

18 kW 27 kW Heating capacity 36 kW 45 kW

Switchable in stages 9/9 9/9/9 9/9/9/9 9/9/9/18 Autom. switch off nο yes yes yes

increased cooling capacity by switching to the plate heat exchanger Cooling capacity

> standard heat exchanger: 200 kW at 90°C plate heat exchanger: 400 kW at 90°C

at cooling water temperature approx. 12°C

Pump capacity motor 2,2 kW

Pressure mode max. 4,5 bar / max. 200 l/min.

Vacuum mode vacuum max. 8 mH₂O

Filling amount min. 26 litres, max. 40 litres

Connections

Medium 1" BSP male thread

Cooling water 1" BSP male thread, inlet with water filter 1" BSP female thread

Dimensions (L×W×H) 1'240 × 480 × 1'400 mm, incl. castors

Weight approx. 180 kg empty

silvergrey RAL 7001 Colour

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

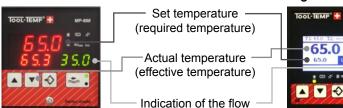
The electronic controllers MP-888 and MP-988 can be operated to read °C or °F. The analog interfaces 0-5 V, 0-10 V and 4-20 mA are standard included in the controllers - without additional costs.

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



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

Analog interfaces

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

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