Temperature Control Unit

TT-188

Universal small temperature control unit with remarkable cost/performance ratio

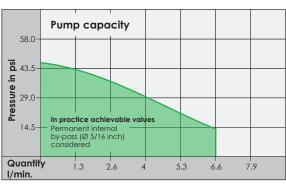
Operational use: with water up to 194°F

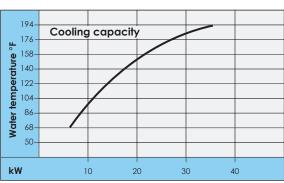
with oil up to 302°F

mould weight up to 1322 lb mould weight up to 661 lb









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 from bronze.
- · Pressure is indicated by manometer.
- · Automatic or manual refill.
- Lime scale free heat exchanger.
- · Corrosion resistant unit (longevity).
- All components in contact with water are made of corrosion resistant 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 in case of failure.
- All failures are visually indicated.
- · Unit on castors.

Tel.: +41 (0)71 644 77 77 Fax: +41 (0)71 644 77 00 E-Mail: info@tool-temp.ch Internet: www.tool-temp.ch

Technical Data

Temperature range	with water up to 194°F	with oil up to 302°F
Temperature control	self-optimizing, electronic microprocessor controller MP-888 with digital display of the set and actual value. Automatic temperature monitoring.	
Heating capacity Switchable in stages	9 kW water operation 3 / 6	3 kW oil operation none
Cooling capacity	35 kW at 194°F - see diagram	
Pump capacity Pressure mode Vacuum mode	motor 1 hp max. 58 psi / max. 15.85 gal/min. vacuum max. 8 mH ₂ O	
Filling amount	min. 1,3 gallons, max. 1,9 gallons	
Connections Medium Cooling water	½" NPT female thread ¾" NPT male thread, inlet with water filter ¾" NPT female thread	
Dimensions (L×W×H)	26,4 × 10,2 × 25,6 inches, incl. castors	
Weight	approx. 121,3 lb empty	
Colour	silvergrey RAL 7001	

All possible voltages are available from 3 x 200 V to 3 x 600 V and 50/60 Hz. For the USA market the units are equipped with NPT-thread connections and the controller is adjusted to indicate °F.

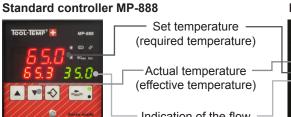
Electronic temperature controllers

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.



Digital interface controller MP-988 (Optional) Digital interface

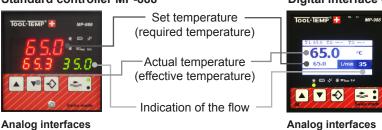
- RS-485, RS-232, Current Loop 20 mA, CAN-bus, Profibus
- · Incl. all existing machine protocols

Temperature difference monitoring

Indication of up to three temperatures

Analog interfaces

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



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

TOOL-TEMP AG Industriestrasse 30

CH-8583 Sulgen Schweiz - Suisse - Switzerland

Tel.: +41 (0)71 644 77 77 Fax: +41 (0)71 644 77 00 E-Mail: info@tool-temp.ch Internet: www.tool-temp.ch

