

Mini-Temperature Control Unit

TT-170 L

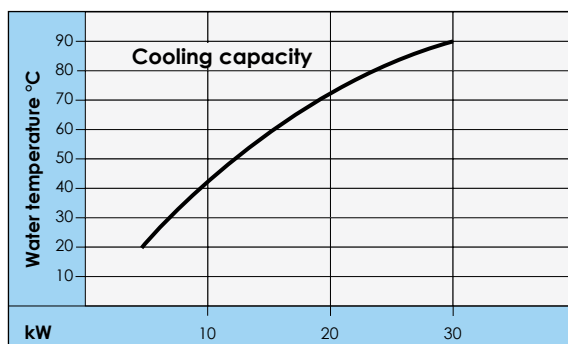
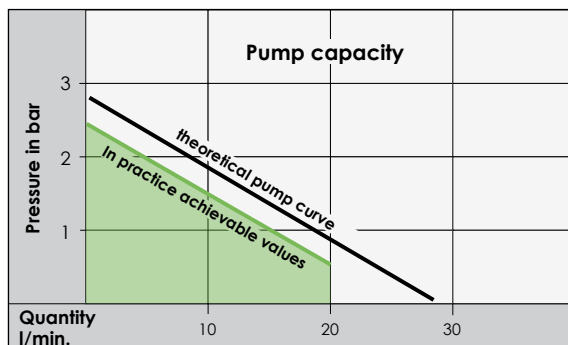
Compact temperature control unit for small injection moulds and rollers

- Operational use: with water up to 90°C
- Mould weight from 1 - 50 kg
 - Rollers up to Ø 80 mm, length 300 mm
 - Application in laboratory



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.
- Submersible seal less pump manufactured from bronze.
- Automatic water filling.
- Lime scale free heat exchanger.
- Corrosion resistant unit (longevity).
- All components in contact with water are made of corrosion resistant stainless steel or bronze.
- 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.



Particularities

- Small and compact
Length: 640 mm x Width: 200 mm x Height: 490 mm, incl. castors
- Robust construction.
- Suitable for placing on a rack with 6 or 8 units.



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Technical Data

Temperature range	with water up to 90°C
Temperature control	self-optimizing, electronic microprocessor controller MP-888 with digital display of the set and actual value. Automatic temperature monitoring.
Heating capacity	3 kW
Cooling capacity	30 kW at 90°C - see diagram
Pump capacity	motor 0,27 kW max. 2,8 bar / max. 28 l/min.
Filling amount	min. 3,5 litres, max. 5 litres
Connections	
<i>Medium</i>	3/8" BSP female thread
<i>Cooling water</i>	3/8" BSP female thread, inlet with water filter 3/8" BSP female thread
Dimensions (LxWxH)	640 x 200 x 490 mm, incl. castors
Weight	approx. 36 kg empty
Colour	silvergrey RAL 7001

All possible voltages are available from 3 x 200 V to 3 x 480 V and 50/60 Hz. The units are available conform to UL specifications. For the USA market the units are equipped with NPT-thread connections and the controller is adjusted to indicate °F.

Electronic temperature controller MP-888

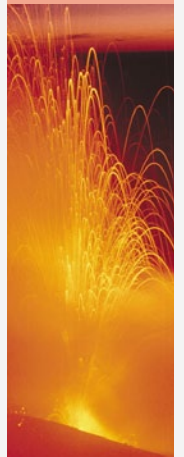
The electronic controller MP-888 can be operated to read °C or °F. The analog interfaces 0-5 V, 0-10 V and 4-20 mA are standard included in the controller - **without additional costs**.

Set temperature / required temperature adjustable in 1/10° range.



Actual temperature / effective temperature displayed in 1/10° range.

The self-optimizing feature on this controller allows a very high regulating accuracy even at high temperatures and adheres to the set temperatures independently of the consumer size.



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