



“

*This is a product  
manufactured  
in Switzerland*

”

## Temperature control unit

# TT-181

**Small powerful temperature control unit**

**Operational use**

**With water up to 90°C**

**With oil up to 150°C**

**mould weight up to 600 kg**

**mould weight up to 300 kg**

### Features included

- Automatic temperature control - difference between set and actual temperature activates an alarm.
- Submersible seal-less pump manufactured from bronze.
- The pump pressure is indicated by a manometer.
- Self-optimizing temperature control unit with digital display of the set and actual temperature. With high precision regulation in  $\frac{1}{10}^{\circ}$  range. Can be adjusted to indicate °C or °F.
- Automatic mould drain.
- Leakstopper device - unit can be used in pressure or vacuum mode. No medium is lost at leaking tools, therefore ensuring continuous production.
- Automatic water- or manual oil refill.
- Lime scale free heat exchanger.
- Corrosion free unit with a long life span.
- All components in contact with water are made of stainless steel or bronze.
- Heating switchable in stages.
- Safety devices:
  - The pre-warning indicates a low level. The unit continues to operate. If the level continues to drop, the unit switches off.
  - Separate mechanical safety thermostat and electronic temperature limiter installed in the controller.
  - Main switch, automatic cutout, transformer and motor protection switch.
  - Horn in case of failure: The level pre-warning is indicated with a continuous sound. All other alarms are indicated by an intermittent sound.
- All failures are visually indicated.
- Castors.



# TOOL-TEMP®

# Technical data

## Temperature range

Up to 90°C with water  
Up to 150°C with oil

## Temperature control

Self-optimizing, electronic microprocessor controller MP-888 with digital display of the set and actual value.

Automatic temperature monitoring.

## Heating capacity (switchable)

9 kW for water operation switchable in stages 3 / 6 / 9 kW  
3 kW for oil operation

## Cooling capacity

35 kW at 90°C

## Pump capacity

Motor 0,75 kW  
Pressure mode max. 4,5 bar / max. 75 l/min.  
Vacuum mode Vacuum max. 8 mH<sub>2</sub>O

## Content of unit

Min. 5 litres, max. 7 litres

## Connections

Medium 1/2" BS female thread  
Cooling water 3/8" BS male thread  
Inlet with water filter 3/8" BS female thread

## Dimensions

Length: 670 mm x Width: 260 mm x Height: 650 mm, incl. castors

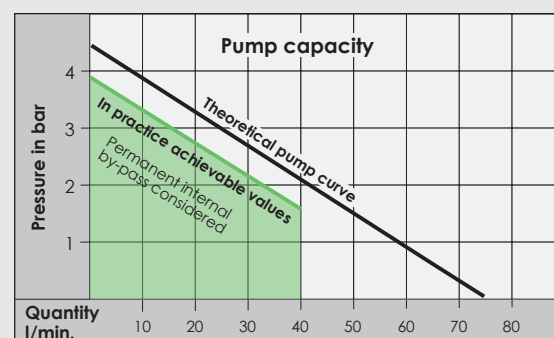
## Weight

Approx. 55 kg empty

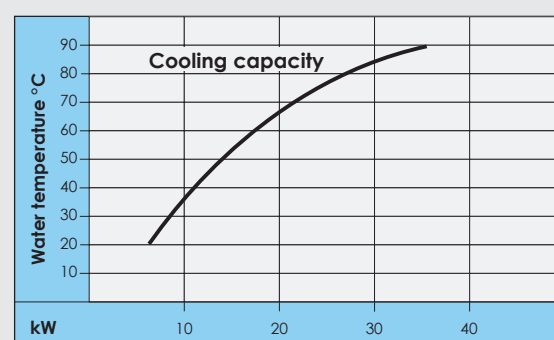
## Colour

Silvergrey RAL 7001

## Pump diagram



## Cooling diagram



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 read °F and american gallons.

## Electronic temperature controller MP-888

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



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

The electronic controller 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 – there is no additional price for them.

The self-optimizing temperature controller MP-888 belongs to the serial equipment of all TOOL-TEMP units. The self-optimizing feature on this controller allows a very high regulating accuracy even at high temperatures independently to the size of the consumer.

