



Temperature Control Unit

TT-380 ATEX

High temperature control unit designed for the appropriate use in explosion-hazardous areas

The unit is constructed under ATEX-Directive 94/9/EG and is suitable for permanent temperatures up to maximum +350°C with heat transfer oil.

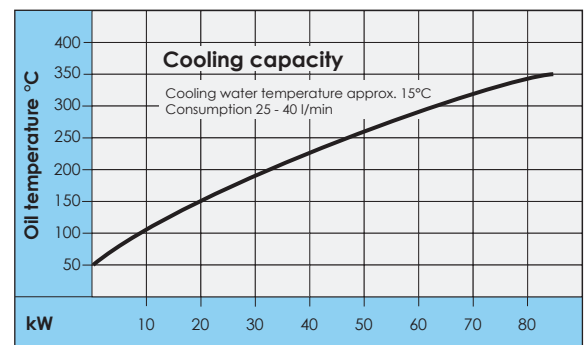
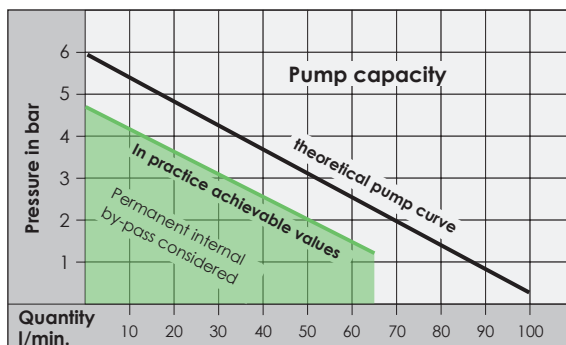


Features included

- With the set value transmitter the self-optimizing temperature controller can be adjusted. The actual value display shows the current temperature in 1/10°-range.
- Automatic temperature control.
- Heating switchable in stages.
- Lime scale free heat exchanger made of stainless steel.
- High temperature pump with axial face seal and triple bearing system.
- Hot oil circuit with by-pass, which ensures internal circulation if valves are closed.
- No oil cracking because of special construction of the heating elements.
- Automatic level control for dry run protection.
- Fault indicator.
- Automatic cut-outs in the pressure resistant encapsulated room.
- Electronic temperature limiter in the controller.
- Mechanical temperature limiter with safety thermostat.
- Additional safety thermostat for each heating element.

Optional

- Equipped with the controller MP-988: External control via Profibus.
- Steam condenser at the outlet of the cooling water. This avoids an outburst of steam at the cooling water outlet.



Available temperature classes

Temperature classes

T1
T2
T3
T4
T5 + T6

max. surface temperature according T-class

450°C
300°C
200°C
135°C

The responding temperature of the safety thermostat is 40°C below the max. surface temperature.

max. temperature of the heat transfer oil

350°C
260°C
160°C
95°C
not available

All versions are allowed for Zone 1 and 2

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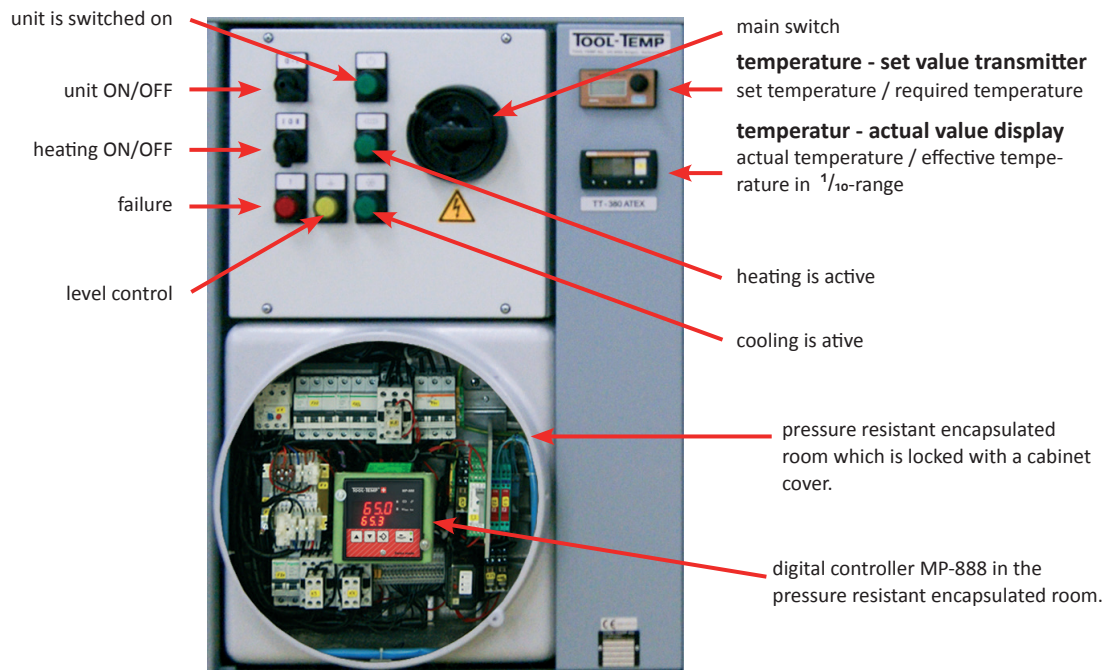


TOOL-TEMP®

Technical Data

| | | |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Temperature range | approx. 350°C (depending on the ATEX requirements) | |
| Temperature control | self-optimizing microprocessor controller MP-888 with digital display of the set and actual value. The controller is adjusted by the set value transmitter. Automatic temperature monitoring on the actual value display. | |
| ATEX-identification (94/9/EG) | equipment group II, category 2 G (IIC Tx) | |
| Heating capacity | 9 kW | 18 kW |
| <i>Switchable in stages</i> | - | 9/9 |
| Cooling capacity | approx. 40 kW at 220°C - see diagram | |
| Pump capacity | motor 2,2 kW | |
| <i>Pressure mode</i> | max. 6 bar / max. 100 l/min. | |
| Expansion tank capacity | 46 Liter | |
| Filling amount | min. 25 litres (heat transfer oil up to 250°C, synthetic heat transfer oil up to 350°C) | |
| Expansion volume | approx. 36 litres | |
| Connections | | |
| <i>Oil circuit</i> | ¾" BSP female thread | |
| <i>Cooling water</i> | inlet | water filter 1" BSP female thread |
| | outlet | 1" BSP male thread |
| Dimensions (LxWxH) | 1'650 x 790 x 1'540 mm, incl. feets | |
| Weight | approx. 430 kg empty | |
| Colour | silvergrey RAL 7001 | |

Front view



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.

