

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.



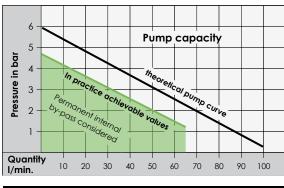


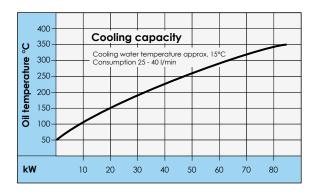
Optional

- 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.

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.





Available temperature classes

Temperature classes

T1 T2 T3 T4 T5 + T6

max. surface temperature according T-class

450°C The 300°C safe 200°C ma 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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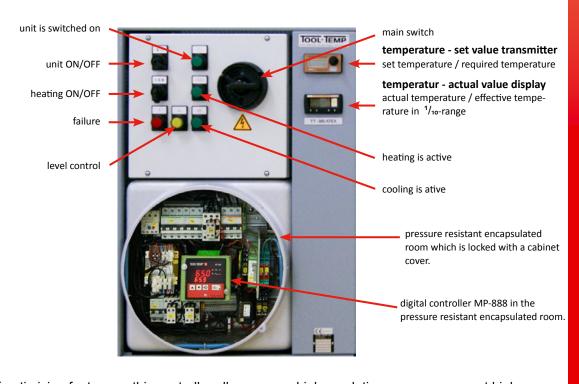
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Technical Data			
Temperature range	approx. 35	50°C (depending on the ATEX requirements)	
Temperature control	self-optimizing microprocessor controller MP-888 with digital display of the set and actual value. The controller is adjusted by the set value transmitter. Automatic temperature monitoring on the actual value display.		
ATEX-identification (94/9/EG)	equipment group II, category 2 G (IIC Tx)		
Heating capacity Switchable in stages	9 kW -	18 kW 9/9	
Cooling capacity	approx. 40 kW at 220°C - see diagram		
Pump capacity Pressure mode	motor 2,2 kW 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 Oil circuit Cooling water	3/4" BSP female thread 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		
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silvergrey RAL 7001

Front view

Colour



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.

