

Temperature Control Unit

TT-388 32 / 48 kW

High temperature oil unit for temperatures up to 360°C
Heating capacity: 32 kW or 48 kW

Operational use:
moulds in the die casting industry, small rollers and plates

Model Z pump with axial face seal
Model A pump with seal less magnetic drive

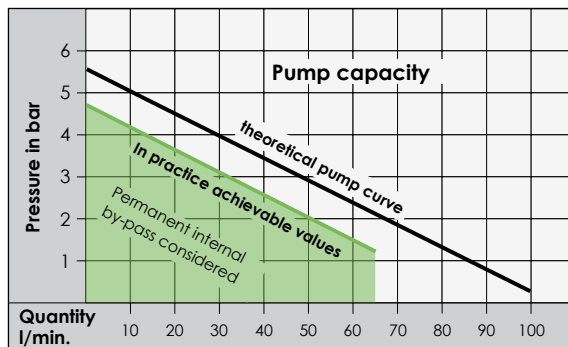
TT-388 / 32 kW

TT-388 / 48 kW



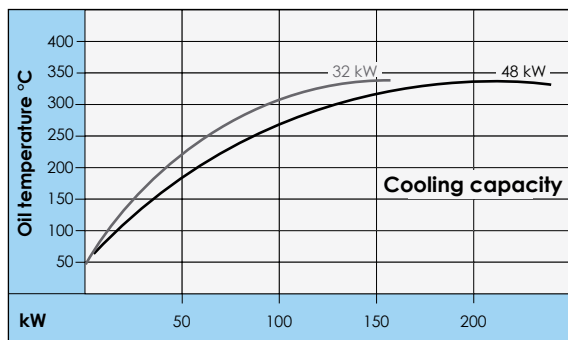
Features included

- 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.
- Digital flow indication with control of the minimum flow.
- Indication of the pump pressure.
- Lime scale free heat exchanger.
- Leak free high temperature pump with axial face seal.
- Hot oil circuit with by-pass, which ensures internal circulation if valves are closed.
- Expansion tank with a drip pan.
- No oil cracking because of special construction of the heating elements.
- 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.



Particularities 32 kW version

- Reversing switch for temperature controlling at the mould.
- Leakstopper device – unit can be used in pressure or vacuum mode. No medium is lost on leaking tools, therefore ensuring continued production.
- Automatic mould drain.



Options

- Equipped with the controller MP-988 allows over 30 different digital interfaces: RS-232, RS-485, Current Loop 20mA, CAN-bus, Profibus etc.
- Leak free high temperature pump with magnetic drive.
- Digital clock timer.
- External command of the controller.
- Collective alarm.
- With regulation of pressure.



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Technical data

TT-388 Z or A (32 kW)

TT-388 Z or A (48 kW)

Temperature range	up to 360°C with heat transfer oil TOOL-THERM SH-3	
Temperature control	self-optimizing, electronic microprocessor controller MP-888 with digital display of the set and actual value. Automatic temperature monitoring.	
Flow control	electronically, with digital display and automatic control of the minimum flow.	
Heating capacity	32 kW	48 kW
<i>Switchable in stages</i>	8/24	8/8/16/16
Cooling capacity	150 kW at 360°C	230 kW at 360°C
Pump capacity	motor 1,8 kW	
<i>Pressure mode</i>	max. 5,5 bar / max. 100 l/min	
<i>Vacuum mode</i>	vacuum max. 8 mH ₂ O	
<i>Model Z</i>	pump with axial face seal and triple bearing system	
<i>Model A</i>	pump with seal less magnetic drive	
Temperature measurement at the mould	yes	no
Leakstopper and mould drain	yes	no
Expansion tank capacity	46 litres	46 litres
Filling amount	27 litres	70 litres
Expansion volume	36 litres	36 litres
Connections		
<i>Oil circuit</i>	¾" BSP female thread	1" BSP female thread
<i>Cooling water</i>	inlet water filter outlet non-return valve	1" BSP female thread 1" BSP female thread
Dimensions (LxWxH)	1'240 x 480 x 1'500 mm	1'240 x 720 x 1'500 mm (incl. castors)
Weight	approx. 235 kg empty	approx. 335 kg empty
Colour	silvergrey RAL 7001	

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 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.

Standard controller MP-888



Analog interfaces

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

Digital interface controller MP-988 (Optional)



Analog interfaces

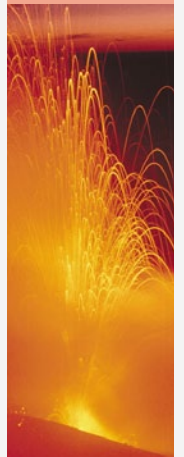
- 0 - 5 V, 0 - 10 V, 4 - 20 mA

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



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