

# TT-508 X Oil temperature

# control unit

Heating and cooling device for large consumers



Oil from 80°C to 300°C

Heating capacity 24 kW | 48 kW

Cooling capacity 480 kW

Cooling system indirect

Applications: rollers, plates, large consumers



#### **Functions**

- Self-optimizing temperature controller with temperature display 1/10°C – steps
- Display in °C or °F and I/min or gal/min
- Digital flow display and monitoring
- Automatic temperature control
- Heating switchable in stages
- Heaters with cascade connection
- Pressure display

#### Construction

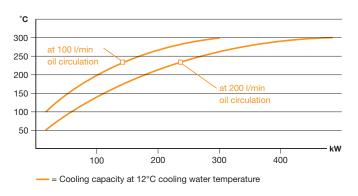
- High-performance centrifugal pump
- Hot oil circuit with bypass, which ensures the internal oil circulation when the valves are closed
- Limescale free heat exchanger
- No cracking of the oil thanks to special heating construction
- Expansion tank with drip pan
- Unit on adjustable feet

## Safety features

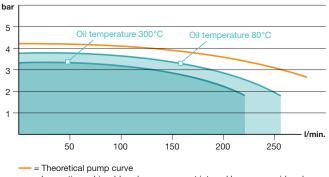
- Level control for dry run protection
- Expansion vessel with safety shut-off in case of overflow
- Electronic temperature limitation and monitoring in the controller
- Mechanical safety thermostats
- Visual and acoustic fault indications
- Integrated circuit breakers
- Main switch, transformer and motor protection switch



# **Cooling capacity**



## **Pump capacity**



---- = In practice achievable values permanent internal bypass considered

# **Technical data**

Product attribute	Unit	TT-508 X	
Temperature range	°C	Up to 300°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	kW	24 kW	48 kW
Switchable in stages		8/8/8	8/8/8/8/8
		Automatic switching of the required heating power	
Cooling capacity		Max. 480 kW - see diagram	
Cooling water consumption		110 l/min (minimum 40 l/min, but leads to strong reduction of cooling capacity)	
Pump capacity			
Motor	kW	4 kW	
Pressure mode		Max. 4 bar / max. 260 l/min – see diagram	
Expansion tank capacity		96 litres	
Filling amount		75 litres	
Expansion volume		75 litres	
Connections			
Oil circuit		Flange connection DN 32, flange outside Ø 140 mm, with 4 holes Ø 18 mm on a screw hole circle of 100 mm, recommended sealing: 80 x 42 x 2 mm	
Cooling water		11/2" BSP female thread (required water pressure 1.5 - 4 bar)	
Dimensions (L×W×H)	mm	1'710×790×1'540 mm, incl. adjustable feet	
Weight	kg	Approx. 520 kg empty	
Colour		Silvergrey RAL 7001	