

# TT-510 X

## Oil temperature control unit

Heating and cooling device for large consumers



Oil from 80°C to 300°C

Heating capacity **96 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 to or °F and l/min or gal/min
- Digital flow display and monitoring
- Automatic temperature control
- Heating switchable in stages
- Heaters with cascade connection
- Pressure display

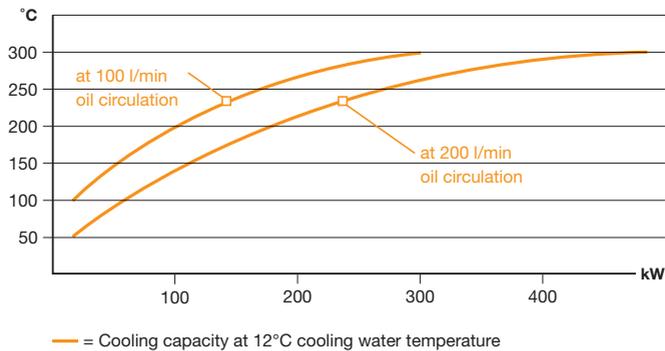
## Construction

- 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

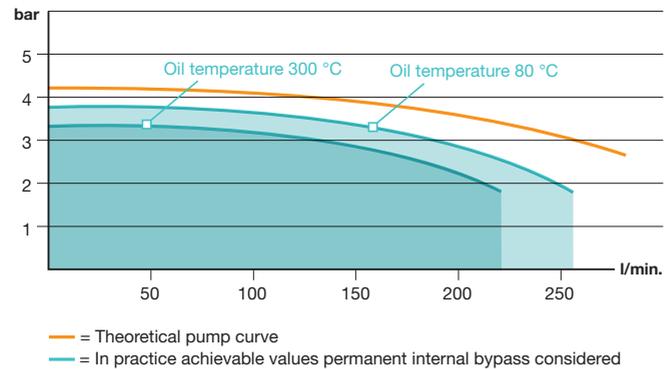
## Safety features

- 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



## Technical data

Produkt attribute	Einh.	TT-510 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	<b>96 kW</b>
Switchable in stages		16/16/16/16/16/16 Automatic switching of the required heating power
Cooling capacity		Max. <b>480 kW</b> - 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		130 litres
Filling amount		125 litres
Expansion volume		100 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		1½" BS female thread (required water pressure 1.5 - 4 bar)
Dimensions (LxWxH)	mm	2'150x1'300x1'950 mm, incl. adjustable feet
Weight	kg	Approx. 845 kg empty
Colour		Silvergrey RAL 7001