

TT-390/2

Oil temperature control unit

High temperature unit for large consumers such as moulds, plates, rollers, double-walled containers



Oil up to 360°C

Heating capacity **2 x 16 kW** | **2 x 24 kW**

Cooling capacity **2 x 90 kW @ 360°C**

Cooling system indirect

Applications: moulds, rollers, plates



Functions

- Self-optimizing temperature controller with temperature display 1/10°C – steps
- Display in °C or °F and l/min or gal/min
- Digital flow display and monitoring
- Automatic temperature control
- Switchover for temperature control on the mould
- Heating switchable in stages
- Heaters with cascade connection (only 24 kW)
- Pressure display
- Automatic mould drainage
- Leakstopper device – operation in pressure and vacuum mode possible

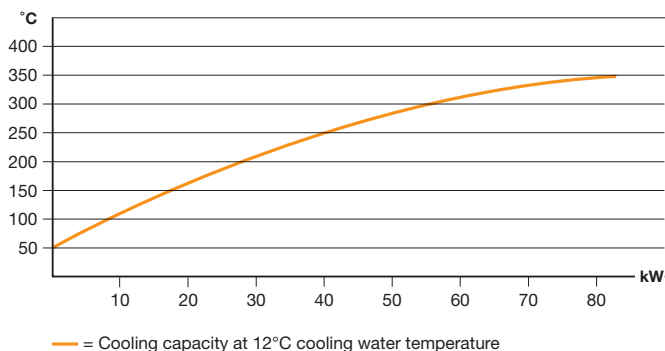
Construction

- High temperature pump with mechanical seal or magnetic coupling
- 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 castors

Safety features

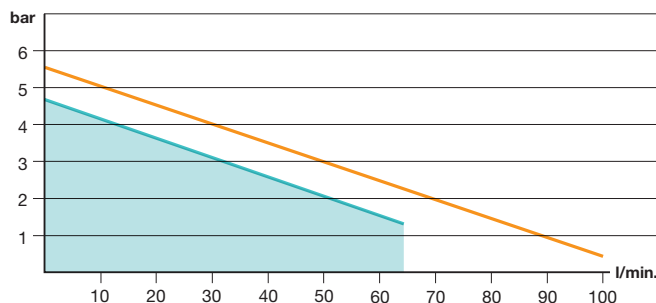
- Level control for dry run protection
- Expansion vessel with safety shut-off in case of overflow
- Electronic temperature limitation and monitoring in the controller
- Mechanical safety thermostats
- Visual and acoustic fault indications
- Integrated circuit breakers
- Main switch, transformer and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

Cooling capacity



— = Cooling capacity at 12°C cooling water temperature

Pump capacity



— = Theoretical pump curve

— = In practice achievable values permanent internal bypass considered

Technical data

Product attribute	Unit	TT-390/2	
Temperature range	°C	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	kW	2 x 16 kW	2 x 24 kW
Switchable in stages		2 x 8/8	2 x 8/16
		Automatic switching of the required heating power	
Cooling capacity		2 x 90 kW at 360°C circulating temperature – see diagram	
Pump capacity	kW	Motor 1,8 kW	
Pressure mode		Max. 5,5 bar / max. 100 l/min. – see diagram	
Vacuum mode		Vacuum max 8 mH ₂ O	
Model Z		Pump with axial face seal and triple bearing system	
Model A		Pump with seal less magnetic drive	
Temperature measurement at the mould		Yes	Yes
Leakstopper and mould drainage		Yes	Yes
Expansion tank capacity		46 litres	46 litres
Filling amount		30 litres	42 litres
Expansion volume		36 litres	36 litres
Connections		¾" BSP female thread	
Oil circuit		¾" BSP female thread	
Cooling water		¾" BSP female thread	
Inlet		With water filter 1" BS male thread	
Outlet		1" BS male thread	
Dimensions (LxWxH)	mm	1'240x720x1'400 mm, incl. castors	
Weight	kg	Approx. 335 kg empty	Approx. 375 kg empty
Colour		Silvergrey RAL 7001	