

MATIC Oil

360 16/24 A

360 16/24 Z



Oil up to 360°C

Heating capacity **16 kW, 24 kW**

Cooling capacity
90 kW @ 360°C indirect

Cooling system indirect (shell & tube)

Robust Mechanical Design

- Triple bearing high temperature pump, developed and produced by Tool-Temp
- Inverted, limescale-free spiral tube Heat exchanger
- Fully immersed heaters made of high-temperature corrosion-free Nickel alloy (Incoloy 800)
- Maintenance-free flow meter
- Stainless-steel solid piping

Features

- IRIS control system
- Pt100 temperature sensors in feed and return lines
- Heater control by solid-state relays
- Variable-speed pump with automatic eco-mode
- Time limited water refill
- Mould evacuation
- Leakstop operating mode

Predictive Maintenance

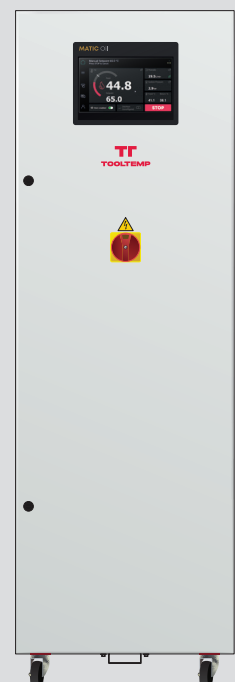
- Continuous monitoring and self-diagnosis of the system
- Clear indication and description of errors
- Condition monitoring of the heat-transfer fluid (oil)
- Condition monitoring of the pump (coming soon)

Safety

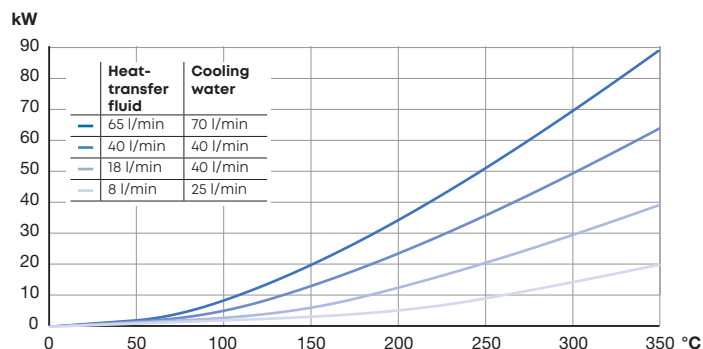
- Multiply redundant, mechanical temperature limiter
- Pump motor monitored by the variable-frequency drive
- Configurable safeguard limits and corresponding reactions
- Configurable audible alarm

Operation

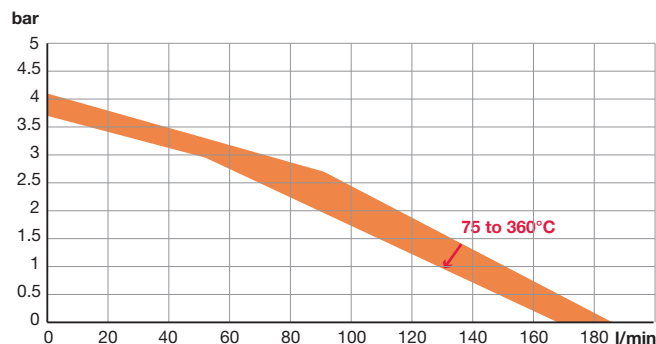
- Industrial-grade, tiltable 7" IPS touch-screen
- Intuitive user interface for commissioning and operation
- Broad range of connectivity features including external temperature sensor
- Automatic actions for common operations
- User-defined time-resolved recipes



Cooling capacity



Pump capacity



All data with TOOL-THERM SH-3, in-unit, with bypass

Provisional data

Technical specifications

	Oil	
Maximum temperature	360 °C (with heat transfer oil TOOL-THERM SH-3)	
Heating capacity	16 kW	24 kW
Filling volume (heat-transfer fluid)	15 Liter	21 Liter
Pump (Shaft coupling)		
Type A	Hermetically sealed magnetic coupling	
Type Z	Fixed, with mechanical seal	
Maximum pressure	5.5 bar @ 50 Hz (standalone pump, operated with Marlotherm SH)	
Maximum flow rate	100 l/min @ 50 Hz (standalone pump, operated with Marlotherm SH)	
Motor rated power	1.5 kW	
Control system	IRIS	
Temperature measurement	3-wire Pt-100 (F0.15 acc. IEC 60751), feed and return	
Pump-pressure measurement	Piezoresistive pressure transmitter	
Flow measurement (heat-transfer fluid)	0-100 l/min, paddle-wheel sensor with inductive pickup	
Dimensions (L x W x H)	1240 x 480 x 1400 mm, incl. castors, approximate	
Connections		
Heat-transfer fluid (feed and return)	¾" BS female thread	
Cooling water inlet	With water filter 1" BS female thread	
Cooling water outlet	1" BS external thread	
Weight	205 kg empty	215 kg empty
Colour	RAL 7035	
Environment		
Temperature range	5-40 °C	
Relative humidity	40-80 % RH (non-condensing, no icing)	
Continuous noise level	< 70 dB (A)	
Power supply	200-240 V and 380-480 V, 50 and 60 Hz	
Ingress protection code	IP44, IP54 optional	
Marking	CE, UL-ready	