

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**

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
- Mould evacuation
- Leakstop operating mode

Predictive Maintenance

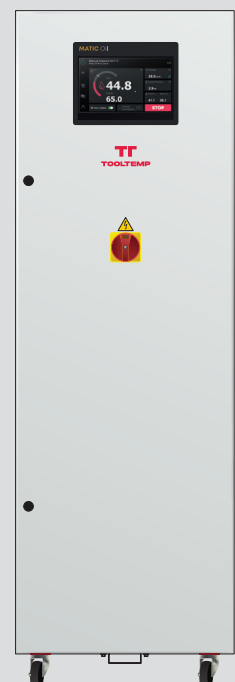
- Continuous monitoring and self-diagnosis of the system
- Clear indication and description of errors
- Condition monitoring of the heat-transfer fluid
- Condition monitoring of the pump (coming soon)

Safety

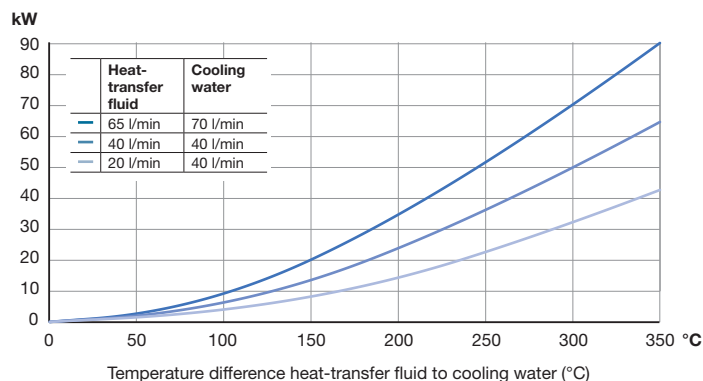
- Multiply redundant, mechanical temperature limiter
- Pump motor monitored by the variable-frequency drive
- Configurable safeguard limits and corresponding reactions
- Configurable audible alarm

Operation

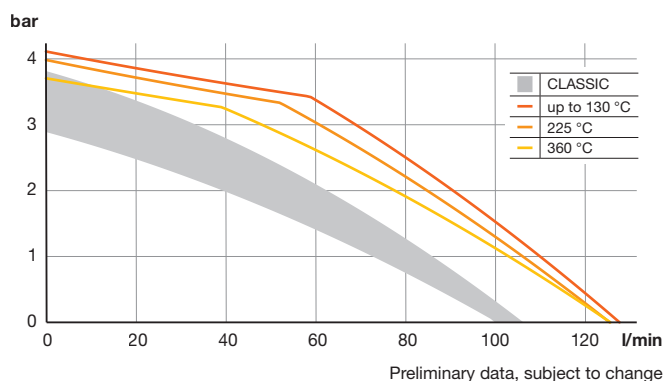
- Industrial-grade, tiltable 7" IPS touch-screen
- Intuitive user interface for commissioning and operation
- Broad range of connectivity features including external temperature sensor
- Automatic actions for common operations
- User-defined time-resolved recipes



Cooling capacity



Pump capacity



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 litres	21 litres	
Expansion volume	16 litres	16 litres	
Pump			
Type A	Hermetically sealed magnetic coupling		
Type Z	Gear coupling, with mechanical seal		
Pressure and flow rate	See diagram		
Motor rated power	1.5 kW		
Control system	IRIS		
Temperature measurement	3-wire Pt100 (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. Provisional dates, subject to change		
Connections			
Heat-transfer fluid (feed and return)	¾" BS female thread		
Cooling water inlet	1" BS female thread, with water filter		
Cooling water outlet	1" BS external thread		
Empty weight	205 kg	215 kg	
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		