



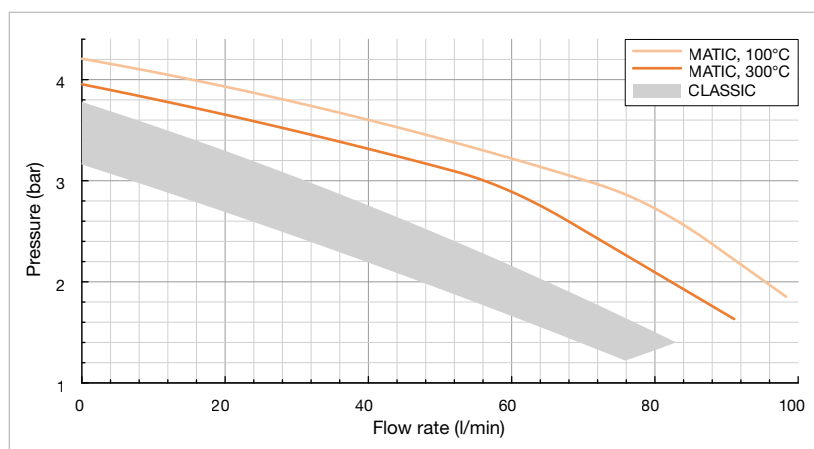
MATIC Oil

360 16 A
360 24 A
360 32 A
360 16 Z
360 24 Z
360 32 Z

- Energy-efficient and ecological
- Modular and easy to expand
- Predefined actions
- Configurable recipes
- Intelligent Connectivity
- Predictive Maintenance

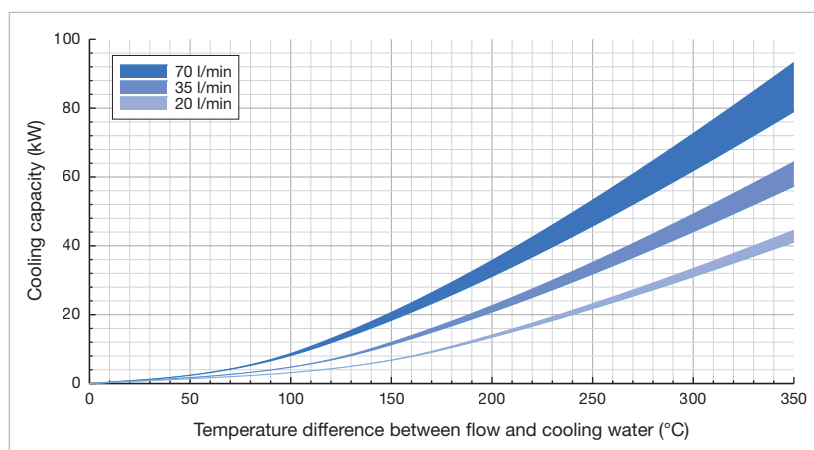


Pump characteristic curve



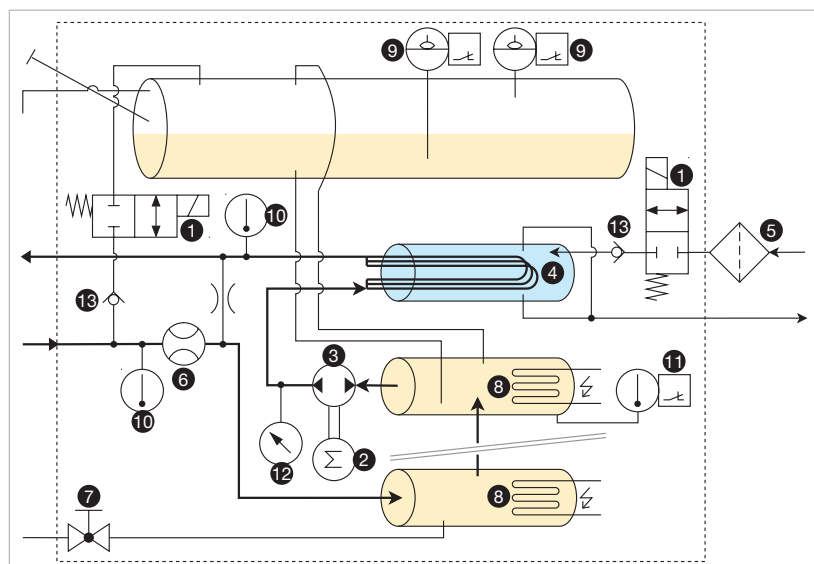
Performance data with Tool-Therm SH3 heat transfer oil

Cooling capacity



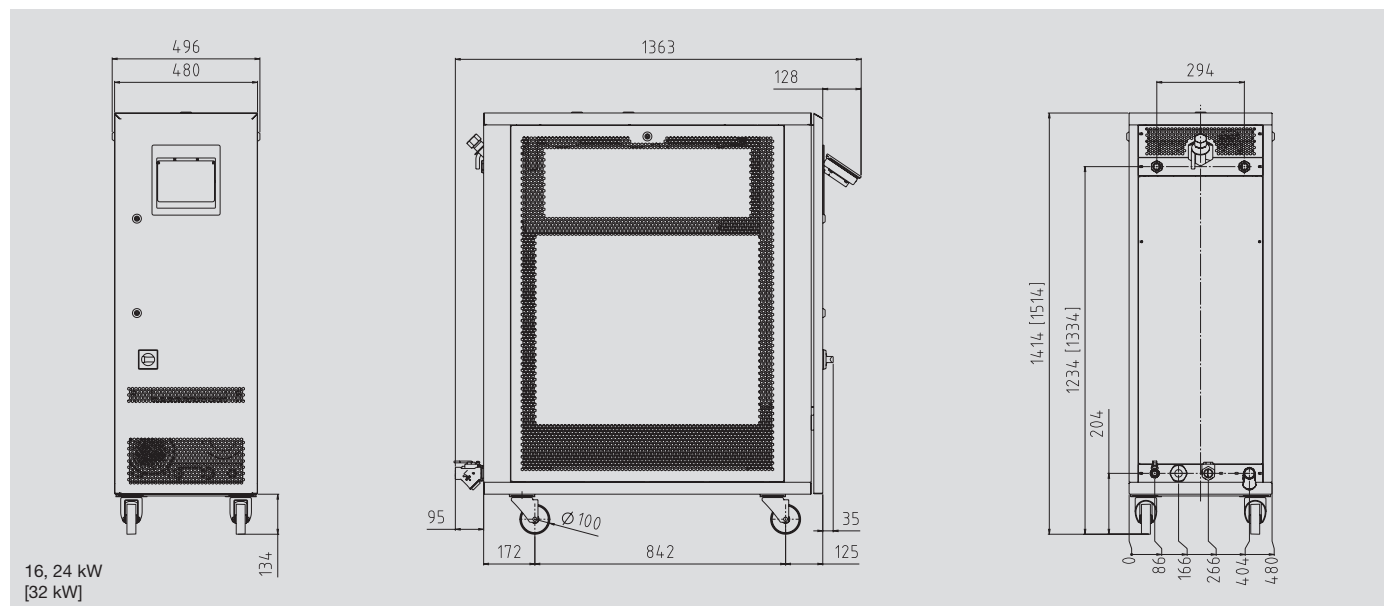
Performance data min. at 30 l/min @ 1.5 bar; max. at 72 l/min @ 8 bar cooling water

Fluidic diagram



1 2-2 way valve (normally closed), 2 Pump motor, 3 Pump with reversible pumping direction, 4 Shell and tube heat exchanger, 5 Filter, 6 Flow sensor, 7 Ball valve, 8 Heating element, 9 Level sensor, 10 Temperature sensor, 11 Safety temperature limiter, 12 Pressure sensor, 13 Non-return valve

Technical data



	Öl		
Maximum temperature	360 °C (with TOOL-THERM SH-3 heat transfer oil)		
Heat output	16 kW (2 x 8 kW)	24 kW (3 x 8 kW)	32 kW (4 x 8 kW)
Cooling capacity	See diagram		
Filling volume (heat transfer fluid)	min. 15 Liter	min. 21 Liter	min. 27 Liter
Expansion volume	36 liters		
Pump	Type A or Z		
Pressure and flow rate	See diagram		
Rated power of the motor	1.5 kW		
Control system	IRIS		
Temperature measurement	3-wire Pt100 (F0.15 to IEC 60751), flow and return		
Pump pressure measurement	Piezoresistive pressure transmitter		
Flow measurement (heat transfer medium)	Impeller wheel sensor with inductive pick-up		
Languages	DE, EN, ES, FR, IT, NL (expandable)		
Interfaces	Module IO1: RS232, RS485, CL 20 mA, CAN (accessories)		
OPC-UA (Standard)	Module IO2: Profibus, Profinet, EtherNet/IP (accessories)		
	Module IO3: 0-10 V, 0/4-20 mA, external measurement (accessories)		
Number of extension module slots	2	2	2
Connections	¾" BSPP (G¾) internal thread		
Heat transfer medium (flow and return)	1" BSPP (G1) internal thread, with water filter		
Cooling water, inlet	1" BSPP (G1) internal thread		
Cooling water, outlet			
Empty weight	210 kg	220 kg	240 kg
Color	RAL 7035 light gray		
Surroundings	5-40 °C		
Temperature range	40-80 % RH (non-condensing, no ice formation)		
Relative humidity			
Installation	Inside, ventilation openings must be at least 10 cm clear		
Continuous sound pressure level	< 70 dB (A)		
Power supply	380-480 V, 50/60 Hz or alternatively 200-240 V, 50/60 Hz		
	16 kW version	24 kW version	32 kW version
Connected load	18 kW	26 kW	34 kW
Conductor cross-section of connection cable	200-240 V		
200-240 V	16 mm²	25 mm²	–
380-480 V	10 mm²	16 mm²	25 mm²
Protection class device	IP44, IP54 optional		
Labeling	CE, UL-ready		