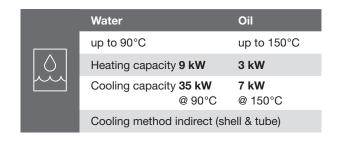


# **MATIC** Duo 90/150 9 E



### **Robust Mechanical Design**

- Tin-bronze submersible pump
- Calcification-free 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
- Automatic filling (when operated with water)
- 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

- Redundant, mechanical temperature limiter
- Pump motor monitored by the variablefrequency drive
- Configurable safeguard limits and corresponding reactions
- Configurable audible alarm

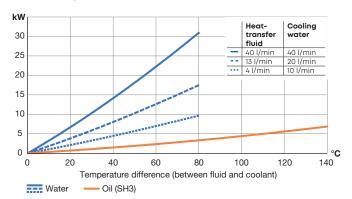
#### **Operation**

- 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

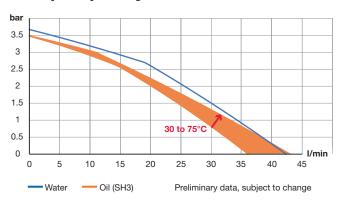




## **Cooling capacity**



## **Pump capacity**



## **Technical specifications**

	Water	Oil
Maximum temperature	90 °C	150 °C
Heating capacity	9 kW	3 kW
Filling volume (heat-transfer fluid)	Maximum 7 litres	Minimum 5 litres
Pump		
Pump type	E	
Maximum pressure	4.0 bar @ 50 Hz (standalone pump, operated with water)	
Maximum flow rate	60 l/min @ 50 Hz (standalone pump, operated with water)	
Motor rated power	0.75 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)	0-60 l/min, paddle-wheel sensor with inductive pickup	
Dimensions (L x W x H)	628 x 255 x 648 mm, incl. castors, approximate	
Connections		
Heat-transfer fluid (feed and return)	½" BS female thread	
Cooling water inlet	%" BS female thread, with water filter	
Cooling water outlet	%" BS external thread	
Weight	55 kg	
Colour	RAL 7035	
Environment		
Temperature range	5-40 °C	
Relative humidity	35-85 % RH (non-condensing)	
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	