

# CLASSIC PRODUCT RANGE

Our CLASSIC temperature control and cooling units are perfect as stand-alone solutions. They are both robust and easy to maintain. The use of proven technologies guarantees the durability of this product group.

Our CLASSIC range of temperature control units comes with digital networking capabilities. Units from our CLASSIC range are ideal solutions for applications in which your temperature control unit's main function is to control the temperature of the circulation medium.

### Features and benefits of the CLASSIC range

- Service-friendly
- Robust and reliable
- User-friendly thanks to a minimalist user interface

### Standard controller MP-888

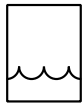
Your temperature control unit contains a digital temperature controller. This ensures precise temperature control even at high temperatures. It displays the current and target temperature. The controller monitors the circulation of the medium and triggers an alarm if the flow rate drops. The digital temperature controller can be operated in °F or °C units and features analogue interfaces of 0–5 V, 0–10 V and 4–20 mA as standard.

### Digital interface controller MP-988

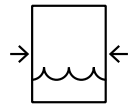
In addition to the standard digital controller we also offer a digital interface controller with RS-485, RS-232, 20 mA current loop, CAN-bus, Profibus and Profinet interfaces. These interfaces are accessible without having to insert any additional cards. Also included is a temperature difference display and over 30 integrated machine protocols.



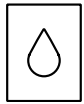
- 1** Universal temperature control units  
**CLASSIC** Duo, Heat transfer medium water and oil  
up to 90°C/150°C



- 2** Water temperature control units  
**CLASSIC** Water, Heat transfer medium water  
up to 90°C



- 3** Pressurised water temperature control units  
**CLASSIC** Water, Heat transfer medium water  
up to 160°C



- 4** Oil temperature control units  
**CLASSIC** Oil, Heat transfer medium oil  
up to 360°C



- 5** Cooling units  
**CLASSIC** Cool  
from -25°C up to +40°C

# MATIC PRODUCT RANGE

The MATIC range of temperature control units covers all the needs of production environments leveraging industrial networks. The entire MATIC product range is equipped with the new and in-house developed IRIS controller, offering a broad range of connectivity features. It covers the time-tested serial and digital/analogue interfaces, classical fieldbus protocols, as well as current state-of-the-art industrial ethernet (Profinet, EtherNet/IP).

The MATIC temperature control units put your economic goals into practice. The energy-saving eco mode leverages the latest-generation variable-frequency drive installed in every MATIC unit. More intelligent look-ahead temperature control prevents unnecessary energy expenses for heating and cooling. All the while our proven immersed heaters offer a 100% conversion efficiency. In short, MATIC brings the energy consumption of your temperature control process, as well as downtimes, to a minimum.

### Features and benefits of the MATIC temperature control units

- OPC-UA interface (coming soon)
- Web interface (LAN cable, WLAN coming soon)
- Intuitive user interface - quick to learn
- Precise and robust control
- Designed for energy efficiency and precision
- Economic thanks to new ECO mode
- Easily configured behaviour
- Fully-automated sub-steps and formula memory
- Information available at any time
- Constant data monitoring and validation
- Electronically accessible process documentation: optimum support for meeting ISO requirements



- 1** Universal temperature control units  
**MATIC** Duo, Heat transfer medium water or oil  
up to 90°C/150°C



- 2** Water temperature control units  
**MATIC** Water, Heat transfer medium water  
up to 90°C



- 3** Pressurized water temperature control units  
**MATIC** Water, Heat transfer medium water  
up to 160°C



- 4** Oil temperature control units  
**MATIC** Oil, Heat transfer medium oil  
up to 360°C

1 Universal temperature control units

CLASSIC Duo, MATIC Duo, Heat transfer medium water and oil up to 90°C/150°C

Product	°C	°C	l	kW	kW	l/min.	bar		kW	°C	mWS		Temperature sensor		Flow control	Leakstopper device	Mould drain	Temperature regulation at the consumer	Time-limited water refill	Automatic refill	Level control	Visual fault indications	Acoustic warning	Pressure regulation		0-10 V input/output	4-20 mA input	4-20 mA output	RS-232, RS-485, Current-Loop, CAN	Profibus interface	Profinet interface	Ethernet/IP	OPC-UA interface	Web interface (LAN cable, WiFi)	
	Max. Temperature Water	Max. Temperature Oil	Max. Filling amount	Heating capacity Water	Heating capacity Oil	Pump capacity	Pump pressure	Cooling system	Tubular heat exchanger	At flow temperature	Suction capacity vacuum	Controller																							
CLASSIC Duo TT-181	90	150	7	9	3	60	4	Indirect	35	90	8	MP-888	FeKo Typ J		-	■	■	-	-	■	■	■	■	-		■	■	□	-	-	-	-	-	-	
CLASSIC Duo TT-188	90	150	7	9	3	60	4		35	90	8				■	■	■	-	-	■	■	■	■	-		■	■	□	-	-	-	-	-	-	
CLASSIC Duo TT-168 E	90	150	20	12	6*	60	4		45	90	8				■	■	■	■	■	■	■	■	-		■	■	□	-	-	-	-	-	-	-	
CLASSIC Duo TT-168 H	90	150	20	12	6*	60	7		45	90	8				■	■	■	■	■	■	■	■	-		■	■	□	-	-	-	-	-	-	-	
MATIC Duo 90/150 9 E	90	150	7	9	3*	60	4	Indirect	35	90	8	IRIS	Pt-100		■	■	■	□ <sup>3</sup>	■	■	■	■	■	■		□ <sup>3</sup>	□ <sup>3</sup>	□ <sup>3</sup>	□ <sup>1</sup>	□ <sup>2</sup>	□ <sup>2</sup>	□ <sup>2</sup>	■	■ up)	
MATIC Duo 90/150 18 E	90	150	20	18	6*	60	4		45	90	8				■	■	■	□ <sup>3</sup>	■	■	■	■	■	■	■		□ <sup>3</sup>	□ <sup>3</sup>	□ <sup>3</sup>	□ <sup>1</sup>	□ <sup>2</sup>	□ <sup>2</sup>	□ <sup>2</sup>	■	■ up)
MATIC Duo 90/150 18 H	90	150	20	18	6*	60	7		45	90	8				■	■	■	□ <sup>3</sup>	■	■	■	■	■	■	■		□ <sup>3</sup>	□ <sup>3</sup>	□ <sup>3</sup>	□ <sup>1</sup>	□ <sup>2</sup>	□ <sup>2</sup>	□ <sup>2</sup>	■	■ up)

\* with booster function and when using Tool-Therm SH3 up to 3 times the capacity

■ standard, □ optional, - not possible

I/O Modul 1, Manufacturer protocols (RS-232, RS-485, CAN, Current-Loop)

I/O Modul 2, Profinet, EtherNet/IP, Profibus

I/O Modul 3, 3 x Digital output (changeover switch), 2 x Digital input (on/off), 2 x Analog output, 2 x Analog input, 1 x ext. Temperature sensor

<sup>1</sup> included in I/O module 1, <sup>2</sup> included in I/O module 2, <sup>3</sup> included in I/O module 3

<sup>up)</sup> Update available per Q2/2024