WT

5 YEARS WARRANTY

MADE IN ITALY

WT

Cod. 20211120

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emec®
SIMPLE AS WATER

WT

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WT

The WT pump is the complete advanced solution for controlling and dosing biocides and inhibitors, which are essential for treating and disinfecting water, preventing the proliferation of bacteria and algae inside evaporative towers. The WT also integrates a corrosion and scale inhibitor dosing function, ensuring continuous protection of metal surfaces and pipes. Dosing of the biocide and inhibitor is managed proportionally on make-up water (both continuous and one-shot), timer or in proportion to the discharge time. The Lockout function ensures the utmost efficiency in chemical management, while the Safety Timer on the discharge solenoid valve guarantees that the system is always safe.

Remote management via NIMBUS/MYEMEC App ensures maximum flexibility and optimisation in system management.

PERISTALTIC WT (STEPPER)

Dual stepper motor technology combined with two long-life, low-permeability peristaltic tubes, ideal for maximum safety and precision in the dosing of biocides and inhibitors. The inverter function allows advanced chemical management in complete safety for the operator. The scheduled maintenance function minimises system downtime. Automatic water draining is managed based on the conductivity value detected, preventing the accumulation of dissolved salts and ensuring optimal chemical balance in the cooling water circuit.

DIAPHRAGM WT (SOLENOID)

The diaphragm version is an advanced solution for an extremely wide range of chemical dosing applications in evaporative towers thanks to its wide flow/pressure range. It is equipped with solenoid-operated diaphragm movement with hydraulic parts in PVDF with high chemical resistance. Integrated functions include manual or automatic bleed, standby mode, and delayed start of dosing.

IQNET CERTIFIED MANAGEMENT SYSTEM · qualityaustria SYSTEM CERTIFIED ISO 9001:2015 No.07728/0 · ISO 14001:2015 No.00997/0 · ISO 45001:2018 No.01121/0

FEATURES

- Large LCD display with backlighting that adapts to device operation
- Encoder knob for instrument control
- PC+ABS box
- Flow control input
- Conductivity reading
  - 0/3 mS - 0/30 mS (ECDINDPT)
  - 0/10 mS (ECDSINDPT)
  - 0/10 mS (ECDCCPT)
- Temperature reading: 0 to 100°C
- Independent dosing of biocide and inhibitor
- Multiple dosing modes: proportional in ppm, daily/weekly timer
- Lockout function
- Safety timer
- Alarms: level, no flow
- Digital inputs can be set to N.O. or N.C.
- Delayed start of dosing
- Permanent data storage with system log viewable on display
- Bluetooth LE / 2.4Ghz WiFi connection for APP and Remote Control
- Upgradable firmware (via OTA)
- Installation class II (IEC/EN 61010-1)
- Pollution level 2 (IEC/EN 61010-1 and IEC 60664-1)
- IP 65 protection (IEC/EN 60529)
- Manual or automatic bleed
- Built-in MODBUS
- Vertical installation

MOTOR AND ACCESSORIES

PERISTALTIC WT (STEPPER)

- 2 stepper motors continuously adjustable between 1 and 25 rpm
- Long-life peristaltic tubes (TPV)

DIAPHRAGM WT (SOLENOID)

- Double magnet with 45 pulses/min, continuously adjustable (1% - 100%)
- Valves with double ball
- Standard hydraulic parts in PVDF

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POWER SUPPLY

PERISTALTIC WT (STEPPER)

100 to 240 VAC

DIAPHRAGM WT (SOLENOID)

115 VAC
230 VAC

INPUTS

Conductivity probe, Water meter input, Level 1 and 2, Flow sensor, Standby

OUTPUTS

Alarm (free contact relay)
MODBUS RTU port, Pump 1 and 2
Bleed (water drain)

PERFORMANCE

	Hose	Pressure	Capacity range		RPM range
		bar (psi)	*l/h*	*gal/h*	*rpm*
PERISTALTIC WT (STEPPER)	Ø 1.6x1.6	2 (29)	0 - 1,8	0 - 0.48	1 - 100
	Ø 4.8x1.6	2 (29)	up to 12	up to 3,17	1 - 100

	Pressure	Capacity range		Number of strokes
	bar (psi)	*l/h*	*gal/h*	*strokes/min*
DIAPHRAGM WT (SOLENOID)	up to 7 bar	up to 6 l/h	up to 1,58 gal/h	180

LCD DISPLAY

DOSING
Green

STAND-BY
White

WARNING
Yellow

ALARM
Red