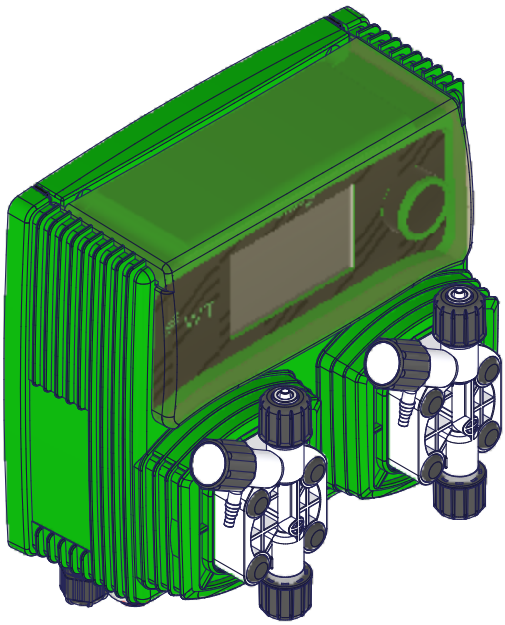
"WT Solenoid"



WT Solenoid is a complete, advanced solution for the control and dosing of chemicals (biocide and inhibitor) in evaporative cooling towers. The system accurately monitors and regulates water conductivity, a key parameter for maintaining system efficiency and preventing scaling and corrosion.

It features two diaphragm pumps for dosing the biocide and inhibitor, which are essential for water treatment and disinfection as they prevent the growth of bacteria and algae. Advanced chemical activation allows for safe and optimized dispensing based on programmed cycles or detected conditions. The system also integrates corrosion and scaling inhibitor dosing, ensuring continuous protection of metal surfaces and piping.

WT Solenoid automatically purges water based on the detected conductivity value, preventing the accumulation of dissolved salts and ensuring optimal chemical balance in the cooling water circuit.

Fully controllable remotely.

ENCODER

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030626

Main Features

- Large LCD display with backlighting that adapts to the device's operation
- Encoder knob for instrument control
- 2 solenoid magnetic dosing pumps
- PC+ABS enclosure
- Flow control input
- Conductivity reading
- 0 / 10000 µS (ECD)
- 0 / 3000 µS, 0 / 30000 µS (ECDIND)
- Temperature reading
- Alarms: level, no flow
- Digital inputs selectable as N.O. or N.C.
- Delayed dosing start (max 60 minutes)
- Permanent data storage with system log viewable on the display
- Bluetooth LE / 2.4GHz WiFi connection for APP and remote control
- Firmware upgradeable (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)
- Power supply: 230Vac (190 ÷ 270) 50/60Hz | 115Vac (90 ÷ 135) 50/60Hz

Inputs:

- Conductivity Probe
- Incoming Water Meter
- Levels 1 and 2
- Flow Sensor
- Standby

Outputs:

- Alarm (free contact relay)
- MODBUS RTU port
- Pump 1 and 2
- Vac out 1 5A (solenoid valve / other)

Programming Mode Biocide
Biocide 1 & 2 (weekly 1, 2, 3, 4)
Daily (7 programs)
Dosing with water meter (time based)
Programming Mode Inhibitor
Feed and Bleed
Feed as a % of bleed
Feed as a % of time
Dosing with water meter (time based)
Dosing with water meter (constant ppm)

Via Donatori di Sangue, 1 - 02100 Rieti (Italy)
+39 074622841 | emecpumps.com

Specifications subject to change without notice | R2025

emec SIMPLE AS WATER

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

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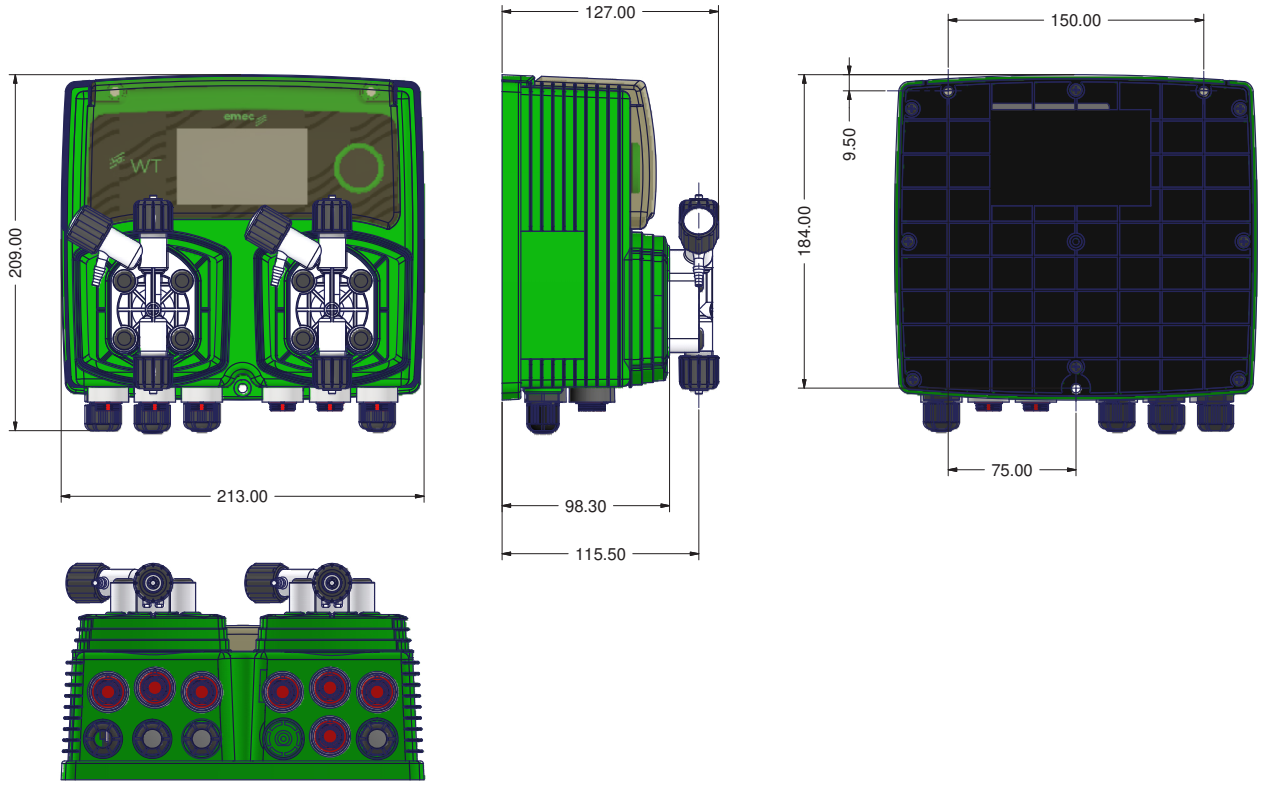
Models

bar	l/h	cc/s	Hose		Pump Head		
			injection	suction	model	Ø mag.	fitting
7	6	0,56	4x6	4x6	K	60	3/8”

Dimensions (mm)



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