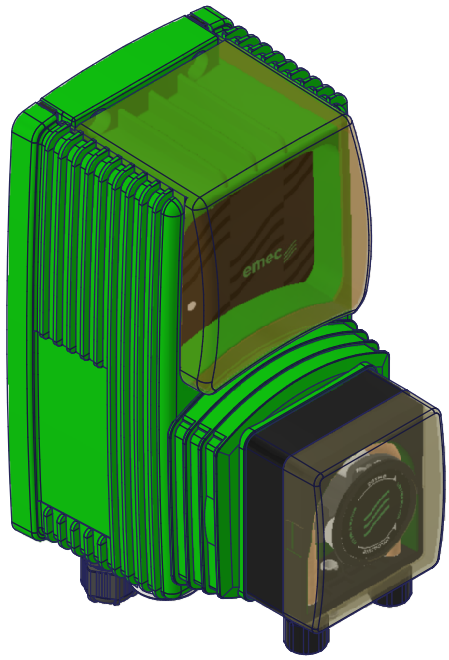
“VELON PM”



VELON PM is the model in the range designed for integration into complex and centralized systems. Thanks to its architecture, it not only ensures precise and reliable dosing but also becomes an active part of industrial automation systems, communicating with PLCs and supervision platforms.

Navigation
Unlike other models, the PM does not focus on an advanced local user interface. Control is managed via MODBUS RTU protocol, allowing the pump to be directly integrated into the plant’s management and supervision systems. Status LEDs and an ON/OFF button complete the basic local functions.

Dosing
It guarantees consistent and accurate dosing, commanded by external systems. The stepper motor ensures stability and precision, while MODBUS control allows the pump to be synchronized with complex, centralized process logics.

Additional Functions
It includes tank level management for safety and operational continuity. Its compact and robust design also facilitates integration in limited spaces.

Connectivity and Services
Its distinctive feature is communication via MODBUS RTU, enabling management and monitoring of the pump as part of a larger system. It does not include WiFi, as it is intended for industrial environments where wired and centralized automation prevails.

Main Features

- ON/OFF button
- Pump Status LED
- Inputs: MODBUS RTU, level
- Function management via MODBUS RTU
- PC + ABS box
- Operating ambient temperature: 10 to 45°C (55 to 113°F)
- Additive temperature: 0 to 50°C (32 to 122°F)
- Transport and storage temperature: -10 to 50°C (14 to 122°F)
- Installation class II (IEC / EN 61010-1)
- Pollution level 2 (IEC / EN 61010-1 and IEC 60664-1)
- Protection IP 65 (IEC / EN 60529)
- RH% operation: 85% with T<=40°C; 70% with T=50°C (NC)
- Power supply: wide-range 100 to 240VAC, 12VDC, 24VDC

MODE	DESCRIPTION
EXTERNAL CONTROL	The pump doses the chemical via command received via MODBUS RTU

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

“VELON PM”

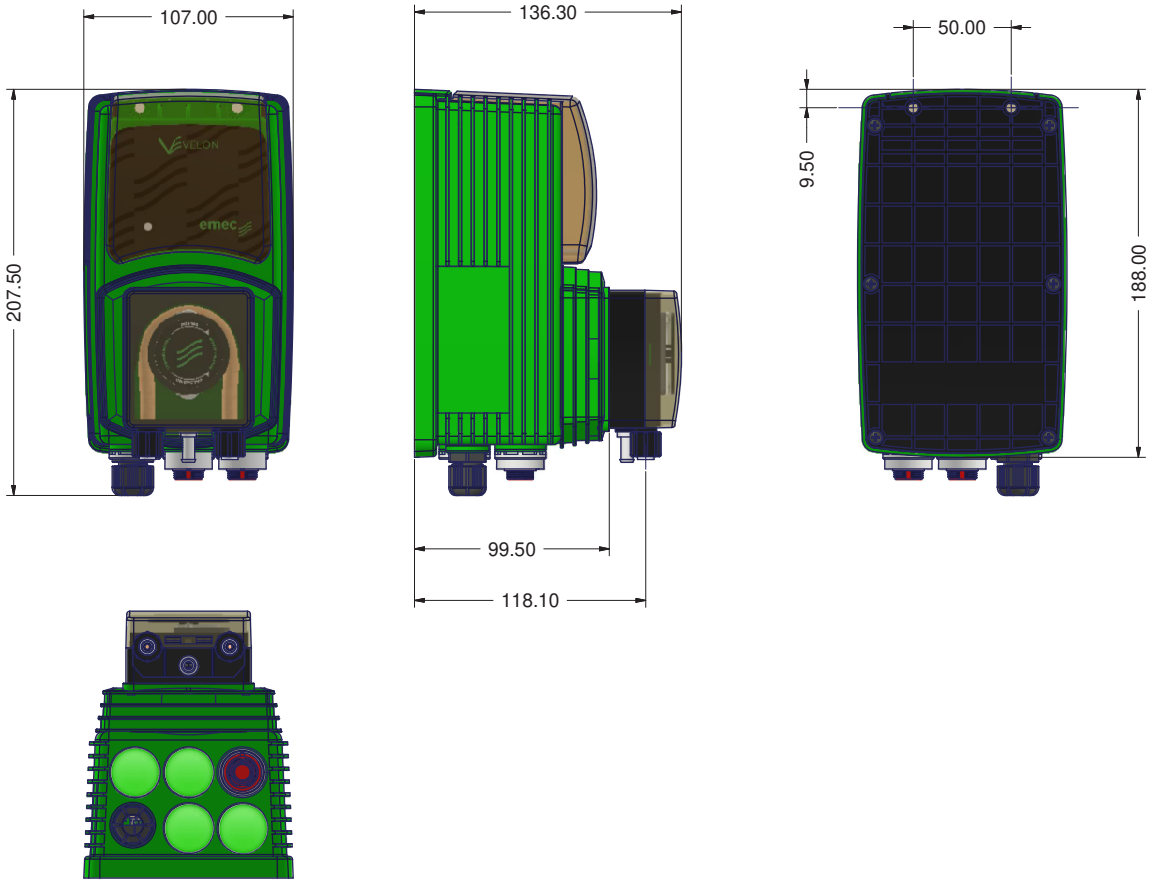
Peristaltic Features

DOSING CAPACITY			
Pressure	**RPM Range**	**Flow Range** (Tubo **Ø1,6x1,6**)	**Flow Range** (Tubo **Ø4,8x1,6**)
bar (psi)	rPM	l/h (gal/h)	l/h (gal/h)
2 (29)	1 to 100	0,018 to 1,8 l/h | 0,0047 to 0,47 gal/h	0,12 to 12 l/h | 0,0317 to 3,17 gal/h

INTERFACE	POSITION
POWER SUPPLY INPUT	down / left
MODBUS PM485	up / center
LEVEL INPUT	up / right

CONSTRUCTION MATERIALS	
ELEMENT	**MATERIAL**
Pump’s body	PC / ABS
Cover	PC
Dust Cover Bushing	PEEK / PPS
Hose Clamp Hose Connector Hose Vent	PVDF
Peristaltic Roller	POM DELRIN
Peristaltic Hose (Long Lasting)	TPV

Dimensions (mm)



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