

**Dosing
system**

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Chemical dosing system

Optimal for Water Maid™ AquaFloc™, FlexKarb, Nodora AirMist™ or Ozonotech RENA Vivo water treatment systems, Mellifiq offers integrated or stand-alone automatic dosing systems.

Mellifiq offers fine-tuned PID controlled pH and chemical dosing systems for flocculation, active pH control and precipitation processes. The systems offer integrated dosing pumps, chemical tanks and sensors for reliable results.

Dosing Pumps

Integrated into each individual dosing station are dosing pumps with high accuracy and precision to facilitate fine-tuned pH levels or chemical concentrations.

Pumps are built to last, with materials selections suitable for pH ranges between 2-14, corrosion resistant to comply with industrial grade equipment requirements.



FEATURES

- Multiple dosing stations connected to a single controller for complex treatment tasks
- Automatic dosing rates based on target pH, ORP or chemical levels
- Manual and automatic operation
- Industrial-grade components
- Multiple chemical storage volumes available to adapt to every application and need



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Technical Specifications

Feature	Acid	Base	Flocculant	Dimensions (HxWxD)
Chemical container volume*	100 L	100 L	100 L	Diameter: Ø460 mm Height: 840 mm
Dosing pump*	High pressure Grundfos DDE	High pressure Grundfos DDE	High pressure Grundfos DDE	Chemical container + dosing pump height: 1041 mm
pH range	Max 12	Min 2	-	-
Sensor	PH sensor	PH sensor	Flow meter	-
Controller	PID control	PID control	Linear flow regulated	120x140x77 mm
	Option: touch and colour display	Option: touch and colour display	Option: touch and colour display	96x96x131 mm
Chemical*	Sulfuric acid	Sodium hydroxide	PAX 60	-
Electrical and controller cabinet	Optional	Optional	Optional	400x400x300 mm
Accessories	Multifunction valve	Multifunction valve	Multifunction valve	92x139x90 mm
Accessories	Suction lance with empty and low-level signal	Suction lance with empty and low-level signal	Suction lance with empty and low-level signal	-
Accessories	5 m Teflon hose	5 m Teflon hose	5 m Teflon hose	-

*Standard configuration only

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Automation

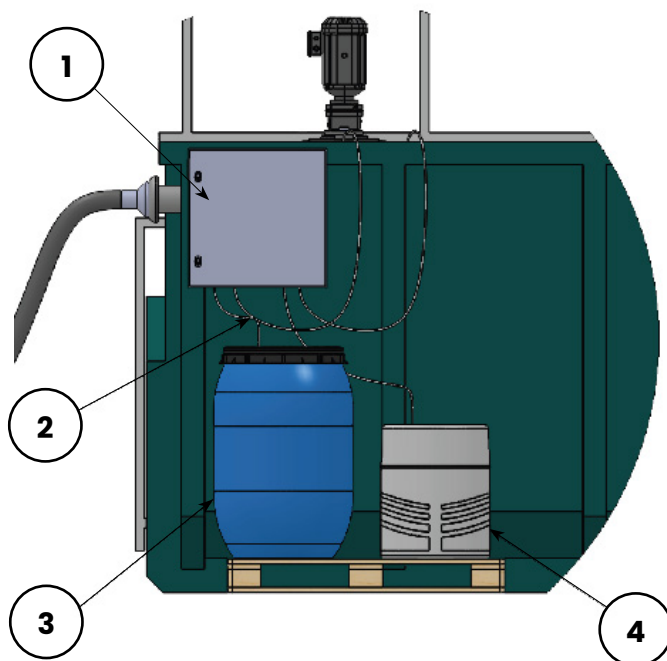
Multiple dosing stations can be connected to a single power and controller unit. The dosing system can regulate both pH levels and chemical concentrations using easily programmable PLC with PID control functions. The controllers are delivered with color displays and touch panels upon request.

pH Sensor

Depending on the type of dosing chemical and application, the dosing systems are equipped with pH sensors or ORP sensors for active and automatic operation. All sensors are selected based on target liquid type and contamination levels.

General arrangement drawing

1. Controller, dosing pump cabinet, dosing pumps
2. Dosing pump hose
3. Chemical dosing tank
4. Acid or caustic dosing tank for pH control



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