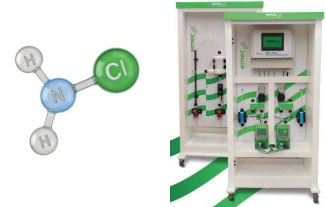


## Section 16

Monochloramine Dosing Systems

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Monochloramine Dosing Systems—Features

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Monochloramine Dosing Systems—Technical Specifications

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## Chloramine Generator

### Standard Features:

- Homogeneous Continuous Dosing
- Chemical Concentration Selection (%)
- Dosing Mode:
  - Automatic calculation of the two reagents
  - Concentration setting in %
  - Proportional dosing setting via flow meter Signal
  - Manual dosing setting
- Integrated Dosing Flow Measurement
- Chemical Flow Control System
- Automatic Dilution System
- Dosing Pump Calibration Mode
- Chemical Setting (ammonia, ammonium sulphate, ammonium bicarbonate)
- Configurable Alarm Outputs
- Modbus TCP-IP Ethernet Communication Port

**emec**  
SIMPLE AS WATER



### DOSING PUMPS

The MDS is equipped with two Prisma series volumetric reciprocating pumps with accurate volume control, providing precise control of flow dynamics. The flow rate or pump volume is controlled by adjusting the diaphragm stroke speed.

### PRESSURE GAUGE

The pressure gauge with isolating diaphragm enables accurate monitoring of the pump's working pressure when corrosive liquids are present.

### BACK PRESSURE VALVE

The back pressure valve prevents spontaneous liquid flow (siphoning) when the suction tank level is higher than the discharge level.

### ULTRASONIC FLOW METER (Control Flow)

Equipped with feedback control, the ultrasonic flow meter ensures accurate and fully automatic adjustment of the dosing process.

\* Please refer to 'Aqua Products Limited' terms and conditions of sale for complete warranty conditions.

## Section 16

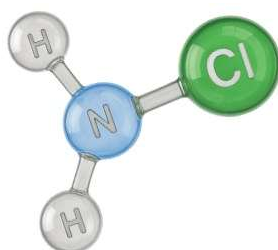
### Monochloramine Dosing Systems

## Chloramine Generator

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### Technical Specifications:

- HDPE Box Diameter 750x1500 Depth 560mm
- 7 inch Colour Touchscreen HMI Controller
- NH<sub>2</sub>Cl Production: from 50 to 5000 g/h
- 2 Self-Priming Electronic Dosing Pumps with Diaphragm, Stepper Motor Controlled by Electronic Control System and Dosing Head with PTFE Diaphragm and PVDF Valves
- 2 Pressure Gauges for Reading Pump Operating Pressure with Diaphragm Separator
- Reagent Minimum Level Sensors
- Leak Collection Tank
- Safety Cover Doors
- PVDF Reactor



**MDS NH<sub>2</sub>Cl** is a compact, automatic system designed for the production of monochloramine in aqueous solution for water treatment purposes.

**MDS NH<sub>2</sub>Cl** simultaneously doses two chemicals, ammonia (at a known percentage) and sodium hypochlorite (at a known percentage), into the water inside the reactor. Generation is monitored by the HMI and can be adjusted by a flow meter with the main water flow.

The system includes three protections:

- A protection for the NH<sub>3</sub> dosing pump
- A protection for the NaClO dosing pump
- A protection from the minimum flow reading of the dilution water meter

The generation of NH<sub>2</sub>Cl occurs inside a reactor with external water flow to protect the reactor. Inside the reactor, the two reagents react with the dilution water at a concentration of approx. 2 g/l (2000 ppm).

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