

Fluoride AquaDOSE

HFA Fluoride Dosing System

FILTEC
Making Water Safer

The Compliant and Cost-Effective Solution for Your Community's Drinking Water

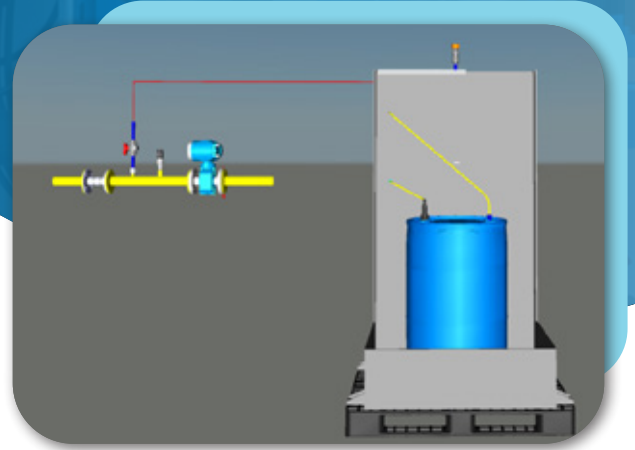
The FILTEC Fluoride AquaDOSE offers a dependable and cost-efficient way to add fluoride to drinking water, while fully complying with the New Zealand drinking water and fluoride dosing code of practice.

One size fits all for this system, allowing it to cater to populations of up to 10,000 people (3MLD) using Hydrofluorosilicic acid (HFA).

Every component of the FILTEC Fluoride AquaDOSE has been designed with safety as the top priority and is fully compatible with HFA.

The FILTEC Fluoride AquaDOSE utilises a flow-paced dosing method to accurately maintain the desired fluoride levels in the drinking water. The fluoride analyser continuously monitors the fluoride levels, serving as an independent check to ensure compliance with the code of practice.

Additionally, the pump is calibrated using a closed loop calibration cylinder to ensure precise dosing of HFA into the drinking water.



For safe chemical storage, the 300L chemical base tank is situated within a bund that complies with HSNO standards.

It features a level transmitter for real time level monitoring, a suction lance to control emissions and a monitoring and alert system that notifies personnel of the chemical level and alarms if it is low.

The chemical bund also includes a dividing wall to separate the bulk chemical from the chemical dosing board and analyser. The chemical dosing board is covered with a splash shield, offering maximum protection to personnel against any potential chemical spray.

The FILTEC Fluoride AquaDOSE is supplied with a drum pump that is compatible with HFA and designed to transfer and manage this product. The entire system is built and mounted to make it easy locate and maintain with minimal manual handling or chemical contact, providing a safe and efficient solution.

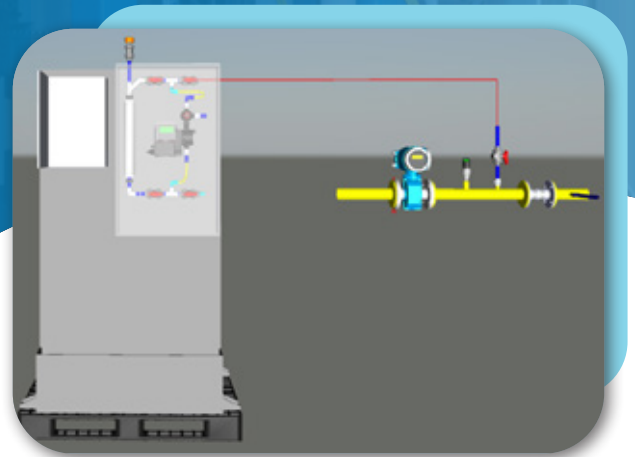
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Materials of Construction

- Pumps: PVDF or other HFA resistant material
- All Piping: HDPE
- Bund: HDPE



System Equipment

1. 300L bulk tank and containment bund to meet compliance standards.
2. Radar Level sensor mounted to the top of the tank compatible with HFA.
3. Rigid suction lance with emission protection kit inside the 300L tank.
4. Dosing board with suitable pump and multi-function valve, with relief valve component piped back to 300L tank.
5. Optional - Alarm module, that compares the 4-20mA outputs from the dosing pump and the flowmeters and sends SMS alarm if a significant deviation.
6. Drum pump to transfer HFA from delivery drum to the bulk tank

For Customers Water Line

1. Plastic injection quill and static mixer to dose into the customers water line.
2. Electronic water meter, that measures the customer's flow rate and signals 4-20mA back to dosing pump (option).
3. Sample point for water analysis and the fluoride analyser.

Fluoride Analyser

1. This can be mounted to the partition on the system equipment or near the sample point for the water line.

Specifications	One size fits all		
Water Treatment Plant Flow (m ³ /day)	150	1,500	3,000
Population Served based on 300L/p/d	500	5,000	10,000
HFA Usage (L/day)	0.51	5.1	10.2

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