

Section 28

Polymer Systems

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Polymer System

EMEC Poly-Preparator: Compact, Automatic, and Highly Efficient

TetraMix is a modular, fully automatic system engineered for continuous polyelectrolyte preparation from dry polymers. Built for seamless scalability, it maximizes efficiency in civil and industrial wastewater treatment plants.

By utilizing advanced technologies—like high-performance brushless motors—and rugged, corrosion-resistant materials (HDPE, PPH, PVC, and AISI 304 stainless steel), TetraMix guarantees superior results in sedimentation, clarification, and sludge dewatering operations.



EXPANDABLE
MODULAR
SYSTEM

Applications:

- Civil and industrial purification plants
- Sludge and wastewater treatment
- Food and beverage sector
- Chemical and pharmaceutical industry
- Processes with: flotation units, decanters, filter presses

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

TetraMix Poly-Preparator

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Standard Features:

- Modular and Expandable System
- Fully Automatic for Continuous Preparation
- Tank Dimension 1400 x 1400 x 1200mm
- PPH Powder Dosing Unit
- Radar Level Controller
- 4 Blade Propeller Mixer Agitator with brushless motor
- Electrical Control Panel with Ethernet communication
- Alarms for Flow, Level & Emergency Stop

PROCESS



1 | MIXING
Initial dosing and homogenisation of reagents



2 | MATURATION
Reaction and stabilisation of the mixture



3 | STOCKING
Controlled storage awaiting use



4 | WITHDRAWAL
Precise and regular dispensing of the solution



emec
SIMPLE AS WATER

The TetraMix system combines robust material construction with smart automation to deliver reliable, high-efficiency polymer processing:

Maximum Operator Safety: Features a hermetically sealed, expandable hopper container housing a plastic-coated screw conveyor, completely isolating hazardous dry polymer dust.

Premium Chemical Resistance: Built with heavy-duty HDPE tanks and a PPH powder dosing unit for long-term industrial durability.

Energy-Efficient Mixing: Driven by an advanced brushless motor, the four-blade propeller agitator provides ultra-precise speed control while drastically cutting power consumption.

Intelligent Automation: Outfitted with non-contact radar level probes, integrated safety overrides, and a complete hydraulic circuit (meter, solenoid, and control valves) for seamless, autonomous operation.

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