

ProMinent® Promix Polymer Preparation System

ProMinent®

Australian designed and manufactured the **ProMix** is a Powder Polyelectrolyte Preparation System for continuous production of a constant quality polymer solution.

Polymer preparation is by automatic batch with solution concentration manually adjusted to suit plant requirements.

TWO TANK DESIGN

The **ProMix** polymer preparation system features a two-tank design. The Mixing tank is mounted above the Dosing tank and has sufficient capacity to ensure that the polymer is properly prepared.

The Mixing tank is filled by a hydraulic transfer system. This eliminates the need for large service platforms.

COMPACT SKID MOUNT

The **ProMix** polymer system has been designed to allow for easy installation & transportation by mounting all components on a common galvanised skid. Site installation requires only the connection of process water and electrics.

WETTING ASSEMBLY

The heart of the **ProMix** polymer system is the Australian designed & built 316 SS wetting assembly. The wide throat cone has a fixed, evenly distributed water flow to wash the powder into the eye of the eductor. At this point the powder is intensively mixed and pre-wetted by the eductor and hydraulically transferred to the mixing tank.



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MAKE-UP WATER SYSTEM

The make-up water supply system comprises, a shut off valve, a solenoid valve for automatic control of service water, and a flow switch (to shut down the Polymer unit if water supply fails): mounted before the wetting assembly.

POWDER FEEDER

Powder is accurately delivered to the wetting assembly by the **ProMinent® Profeed** Dry Chemical Feeder. This 316SS feeder is set by the operator to deliver the precise amount of powder to make up the desired solution strength.

SYSTEM CAPACITY

With polyelectrolyte requiring an ageing time of 30 minutes system capacity is 600 l/h of up to 0.5% solution strength.

Alternate package with 1200 litres capacity available.

EASY FIT OPTIONS

Secondary Dilution

Secondary dilution may be fitted as an optional extra.

Metering Pumps

The standard skid has room for mounting of the correct selection of ProMinent Metering Pump.

Bag Loader

A ProMinent® **ProLoad** Bag Loader may be fitted to the top of the Dry Materials Feeder Hopper. This allows loading of the polymer with standard bags with minimum dusting.

SPECIFICATION

Each system includes:

- ◆ 1 x Galvanised Skid – approx size 2.8m H x 1.2m W x 2.0m L
- ◆ 1 x Standard ProMinent Control Panel for Polymer System
- ◆ 1 x Dry Powder Feeder, 0.18kW
- ◆ 1 x Storage Hopper 80 litres
- ◆ 1 x ProMinent® **ProWet** Wetting Assembly
- ◆ 1 x Low Speed Stirrer, 0.18 kW, IP56
- ◆ 1 x Mixing Tank, approximately 500 litre, polypropylene (alternate 1000 litre)
- ◆ 1 x Motorised Dump Valve
- ◆ 1 x Dosing Tank, approx 500 litre, polyethylene (alternate 1000 litre)
- ◆ 1 x set of over flow and drain pipework.

CUSTOMISATION

ProMinent are happy to produce variations including tank by tank system to suit particular client needs.

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