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# EZBlend

## Polymer Hydro-Mixing System



- ◆ **Reliable and Economical Polymer Solution Dosing**
- ◆ **Dual Stage HydroKinetic Mixing**
- ◆ **Simple Manual Control of Polymer Feed and Dilution Water Flow**
- ◆ **Rapid, Uniform Polymer Activation**
- ◆ **Easy to Install and Operate**
- ◆ **Operator Friendly & Easy to Maintain**
- ◆ **Rapid Delivery**

The EZBlend Series is designed to prepare liquid polymer solutions with final solution concentrations ranging between 0.02 % and 1.0 % and neat polymer usage up to 12 gallons per hour.

The polymer mixing system includes one high viscosity metering pump mounted on a SS shelf, one polymer piping header, one dilution header with dual stage mixing with dilution flow control and one solution discharge header. All components are pre-assembled, and mounted to a rigid 36" x 36" PVC backboard with unistrut wall mounting brackets.

The operation is simple. The operator manually sets the neat polymer flow with easy to use pump controls and the use of a calibrating draw down assembly. Next, the dilution water flow is set via an on board PVC globe valve and displayed on an easy view, reliable mechanical rotometer for a dilution water range of 2–20 gpm.

Neat polymer is dosed via metering pump into the inlet of a customized, purpose built hydrokinetic mixing tee which provides the proper type and magnitude of mixing energy at the critical moment of initial wetting or the primary mixing stage.

Secondary tapered mixing continues in a multi-element static mixer. This assures complete hydration of the polymer solution for optimized performance results.

The system can also be modified to supply "neat" product to any application.

System includes

- P&ID Drawing
- General Arrangement Drawing
- Functional and Hydrostatic testing
- Packaging for domestic ground freight

Ask about installation and start up!

## EZBlend Polymer Hydro-Mixing System

### Neat Polymer Inlet - Suction Header

- Chemical Inlet Connection: One (1) ½" PVC True Union Ball Valve - Viton Seals
- One (1) 500mL PVC Calibration Cylinder with Isolation Valve
- One (1) ½" PVC True Union Pump Isolation Valve - Viton Seals
- One (1) solenoid diaphragm, or servo motor metering pump with high viscosity head,
- Pump will be controlled manually.
- Note: Any suitable pump with maximum output of 7-8 gph can be substituted.
- Miscellaneous PVC Piping

### Dilution Water Inlet Header

- Dilution Inlet Connection: One (1) 1" PVC True Union Ball Valve - Viton Seals
- Dilution Rate Control: One (1) 1" PVC Globe Valve - Viton Seals
- One (1) 2-20 GPM Rotameter
- One (1) 1" PVC True Union Spring Loaded Check Valve – Viton Seals
- Note a minimum of 35psi inlet water is required.
- Miscellaneous Fittings

### Neat Polymer Discharge Header

- One (1) 1/2" PVC True Union Isolation Valve
- One (1) ½" PVC True Union Spring Loaded Check Valve - Viton Seals
- Miscellaneous PVC Piping

### Primary Mixing Module

- One (1) EZ View Clear Tempest Hydro-Kinetic Disperser Tee- Primary Mixing
- Neat Chemical inlet
- Dilution Water Inlet

### Solution Discharge Header (from Primary Mixing Module)

- One (1) – PVC body Pressure Gauge with PTFE Diaphragm Seal 0-160 psi
- One (1) ¾" PVC Koflo – 6 element static mixer- Secondary mixing
- One (1) 1" PVC True Union Ball Valve, Discharge Connection
- Miscellaneous PVC Piping

### Back Panel

- One (1) PVC Backplane, Approximate Dimensions: 36" x 35" with Unistrut wall mounting brackets.
- SS / PVC Pump Shelf

