PolyBlend® Dry Polymer Feed System
Model DP110

The PolyBlend® DP110 system is a reliable dry polymer feed system for use in water and wastewater applications. The DP110 is an integrated sequential batch, continuous feed system design.

The DP110 is specifically designed to provide uniform mixing. Dry polymer and water are mixed in the vortex created by the rotating tank impeller. The unique mixing process provides maximum polymer preparation and activation. The system is designed for polymer solution concentrations up to 0.3% by weight with a maximum dry polymer feed rate up to 1.9 lbs/hr (0.86 kgs/hr).

The DP110 is controlled through an easy-to-use microprocessor-based touch screen operator interface. The LCD display enables complete operation of all functions including dosage rates, solution concentration, run and flow totalizers and alarm conditions.

The DP110 can be supplied with a number of polymer solution transfer pump options and controls options.

Key Benefits
- Consistent and reliable performance
- Reduced polymer consumption
- Operator interface controls provide fully automated operation
- Easy to operate system with improved safety features

Specifications

| Electrical                  | 120 VAC/ 50-60 Hz/ 1 Ph |
|                           | 240 VAC/ 50-60 Hz/ 1 Ph |
|                           | 240 VAC/ 50-60 Hz/ 3 Ph |
|                           | 380 VAC / 50-60 Hz/ 3 Ph |
|                           | 480 VAC/ 50-60 Hz/ 3 Ph |
|                           | 575 VAC/ 50-60 Hz/ 3 Ph |
| Water Supply               | 37.85 LPM (10 GPM) |
| *Polymer Feed              | Up to 0.86 kg (1.9 lbs)/hr |
| Control Panel              | NEMA 4X PLC based with color touch screen |
| Options                    | Solution transfer pumps |
|                           | Control options |

*Note: Consult UGSI Chemical Feed, Inc. with regards to dosing amount and your application.
General Layout

Key | Description
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1 | Chamber Assembly, Acrylic
2 | Motor, Channel Mount
3 | Cover, Clear Acrylic
4 | Cover, 3.175 mm (1/8"), 304SS
5 | Cover, Tank, 304SS
6 | Volumetric Feeder, SS
7 | Hopper, 1 cu. ft.
8 | Level Assembly, Sight Gauge
9 | Motor, 1 HP, WD
10 | Gear Reducer, Baldor, 15:1
11 | Switch Assembly, Sensor
12 | Switch Assembly, Float
13 | Tank, 567.8 L (150 US GAL), 304SS
14 | Valve, Ball, PVC, 38.1 mm (1-1/2"")
15 | Valve Assembly, Solenoid, 12.7 mm (1/2")
16 | Mix Tank Mixer
17 | Hold Tank Mixer
18 | Baffle Separating Mix & Hold Tanks

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