

POLYBLEND® DP-800

Dry/Liquid Polymer Feed System



The DP-800 System Features:

- Reliable Performance
- Field Proven
- Reduced Polymer Consumption
- Fully Automated Operation
- Operator Interface Controls
- Improved Safety Features
- Easy to Operate

Description:

The PolyBlend DP-800 is a member of the family of reliable dry polymer feed systems for use in water and wastewater applications. The DP-800 is an integrated equipment package capable of automatically preparing a homogeneous polymer solution.

The DP-800 consists of the DD-4 dry polymer disperser, a stainless steel mix tank, and a gravity fed stainless steel hold tank.

The DP-800 is specifically designed to provide uniform mixing. Dry polymer and water are initially mixed in the DD-4 polymer disperser exposing the solution to a high shear agitation via mechanical mixing. The high shear agitation ensures proper activation of the polymer and prevents unwanted agglomerations. After brief exposure, the solution exits the high shear mixer and flows into the mix tank.

The second stage mix is a longer, low shear mix. The rotating impeller in the secondary mix tank is a patented “hollow-wing” design and covers over half the width of the tank. The low shear mixing continuously and uniformly moves the solution vertically and horizontally resulting in no agglomerations or broken polymer chains.

When a low level is sensed in the hold tank, a valve is automatically opened and the prepared solution is gravity fed into the holding tank. From the holding tank, the homogenous polymer solution can be transferred to the process with an optional feed pump skid.

The DP-800 is controlled through an easy-to-use microprocessor-based operator interface. The LCD display enables complete operation of all functions including dosage rates, solution

General Specifications

Electrical: 208VAC/ 50-60 Hz/ 1 Ph
 240VAC/ 50-60 Hz/ 1 Ph
 480VAC/ 50-60 Hz/ 3 Ph
 575VAC/ 50-60 Hz/ 3 Ph

Water Supply: 20-30 GPM

Tank Size: 360 USG (standard)

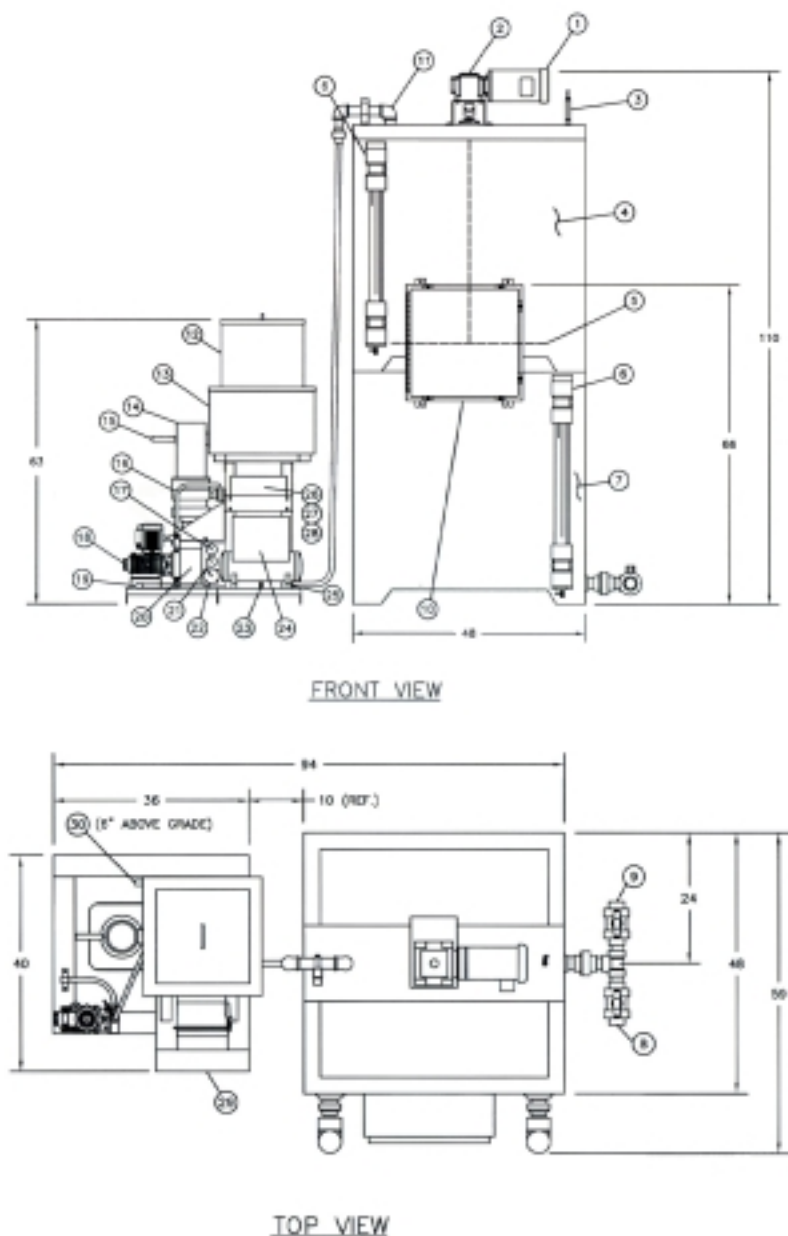
***Polymer Feed:** Up to 45 lbs/hr dry polymer based on a .75% solution and two (2) batches per hour

Control Panel: NEMA 4X PLC Based

Options: See Back

**Note: Consult USFilter Stranco Products with regards to dosing amount and your application.*

DRY POLYMER
 FEED SYSTEM



KEY	DESCRIPTION
1	Motor, Tank Mixer, 1725 RPM, TEFC
2	Speed Reducer
3	Pneumatic Cylinder, Dump Valve Actuator
4	Mix Tank, 360 USG
5	Impeller, Mix Tank
6	Level Indicator
7	Hold Tank, 360 USG
8	Hold Tank Drain, 1-1/2" NPT
9	Hold Tank Discharge, 1-1/2" NPT
10	Control Panel
11	Solution Inlet, Mix Tank, 1-1/2" NPT
12	Hopper, 2.5 cu ft
13	Powder Feeder
14	Wetting Bowl
15	Pneumatic Cylinder, Isolation Plunger Actuator
16	Wetting Impeller Housing
17	Pressure Gauge, Compressed Air
18	Neat Liquid Polymer Pump
19	Emulsion Polymer Inlet, 1/2" NPT
20	Motor, Impeller, 1.0 HP, 3450 RPM
21	Pressure Gauge, Water Supply
22	Differential Pressure Gauge with Switch
23	Condensate Drain
24	Air Compressor with Tank
25	Solution Discharge, Wetting Device, 1-1/2" NPT
26	Pressure Switch, Air
27	Pressure Switch, Supply Water
28	Junction Box
29	Support Frame, Base
30	Supply Water Inlet, 1-1/2" NPT

****NOTE:** Drawings are shown with optional liquid polymer pump and 2.5 cu ft hopper. Contact USFilter Stranco Products to select proper options to meet your process requirements.

Available Options

- Diaphragm Metering Pump
- Progressing Cavity Metering Pump
- SS Gear Metering Pump
- Batch Tanks/ Single or Tandem
- Integral Compressor
- 2.5 ft³ Hopper
- 20 ft³ Hopper
- Bulk Bag Frame
- Bulk Bag Frame with Hoist
- Bag Dump Hopper
- Low Powder Level Indication
- Over-Sized Feeder Screw Auger
- Supply Water Pressure Reducing Valve
- Final Feed Pumps
- Final Feed Post Dilution
- Large Hold Tanks
- Transfer Pumps

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