The PolyBlend® DP800 system is a reliable dry polymer feed system for use in water and wastewater applications. The DP800 is an integrated equipment package capable of automatically preparing a homogeneous polymer solution.

The DP800 consists of the DD4 dry polymer disperser, a stainless steel mix tank, and a gravity fed stainless steel hold tank.

The DP800 is specifically designed to provide uniform mixing. Dry polymer and water are initially mixed in the DD4 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 U.S. 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 DP800 is controlled through an easy-to-use microprocessor-based operator interface. The LCD display enables complete operation of all functions including dosage rates, solution concentration, and alarm conditions.

### Key Benefits:
- Reliable performance
- Field proven
- Reduced polymer consumption
- Fully automated operation
- Operator interface controls
- Improved safety features
- Easy to operate

### 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** | 75.7-113.6 L (20-30 GPM) |
| **Tank Size** | 1362.8 L (360 USG) |
| *Polymer Feed** | Up to 20.4 kg (45 lbs)/hr dry polymer based on a 0.75% solution and two (2) batches per hour |
| **Control Panel** | NEMA 4X PLC based with colour touch screen |
| **Options** | See back |

*Note: Consult Water Process Solutions, Ltd. with regards to dosing amount and your application.*
General Layout

Available Options:
- Diaphragm metering Pump
- Progressive cavity metering pump
- SS gear metering pump
- Batch tanks / single or tandem
- Integral compressor
- 0.07 m³ (2.5 ft³) hopper
- 0.57 m³ (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

Polyblend® is a trademark of UGSI Chemical Feed, Inc.

The information provided in this literature contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of a written contract.