



## Dry & Dry/Liquid Polymer Preparation Systems

### WSDP-105 Series

This system is a low cost, automated dry polymer feed system designed for applications that require less than 12 lbs/hr dry polymer. This system is ideal where maximum polymer performance and simplicity is needed. The 105 series uses two mixing routines within the same system. This patented design allows the water to be drawn in from the top of the tank creating a vortex in the polymer interface chamber. The vortex carries the dry polymer into the mixing impeller where it is exposed to a high shear agitation. The high shear ensures proper activation and prevents agglomeration. The second stage mix is a longer, low shear mix. The reduced mixer speed causes the entire solution to be recirculated through the mixer resulting in a uniform blend. This ensures total tank exposure thus no polymer waste by eliminating agglomerations and broken polymer chains.

- 120VAC, 3PH, 60Hz, 20A
- 3/4" water inlet (30 gpm) and solution outlet
- 75 US gallon FRP mixing tank with 304 stainless steel mixing impeller
- 1 to 12 lbs/hr dry polymer @ 0.25% 30-minute batch cycles
- 90 VDC, 3/4 HP mixer motor
- Fire retardant polyethylene tank & cover
- Polypropylene skid
- PVC piping and vertical tube
- Carbon ceramic faces
- 15-gpm progressive cavity solution transfer pump and NEMA 4X control panel with fused power disconnect
- Allen-Bradley Micrologix 1000 PLC and touch screen operator interface



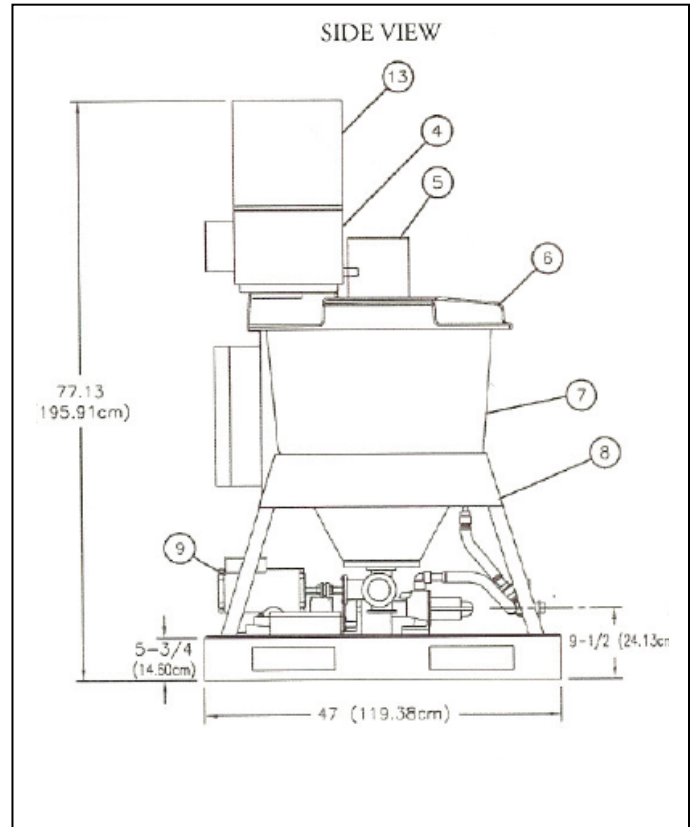
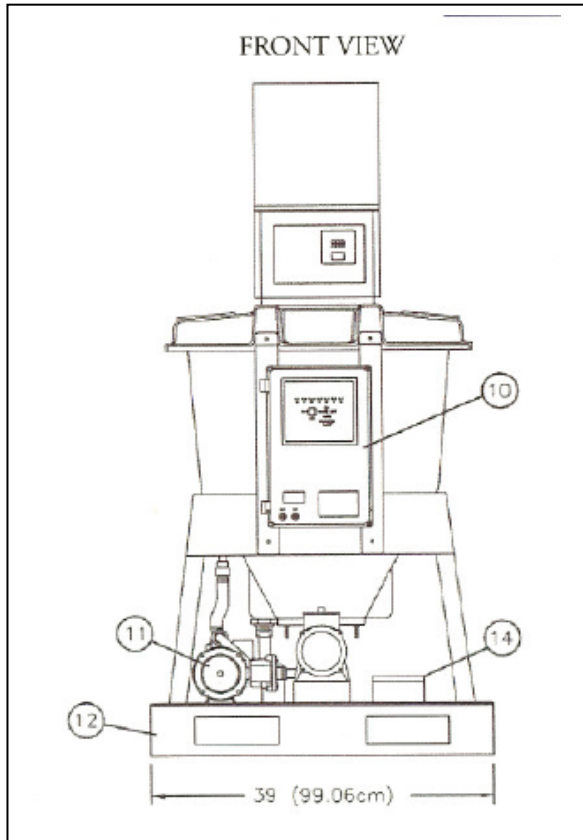
### System Features:

- Reliable Performance
- Reduced Polymer Consumption
- Fully Automated Operation
- Easy To Operate
- Improved Safety Features
- Field Proven

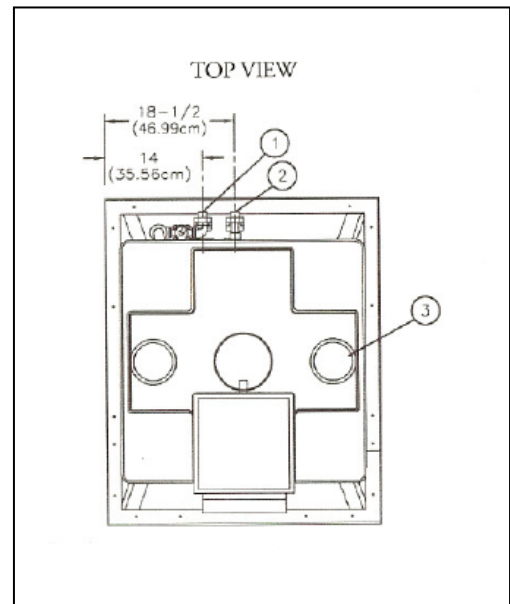
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KEY	DESCRIPTION
1	Water Inlet, 3/4" (F)NPT
2	Solution Discharge, 3/4" (F)NPT
3	Clear Acrylic View Port, (Qty. 2)
4	Dry Powder Feeder, .33cu/ft
5	Polymer Inlet Interface Bowl w/Cover
6	Cover, Fiberglass
7	Mixing Tank, Fiberglass
8	Tank Stand, SS
9	Mixing Motor Assembly
10	Control Panel
**11	Progressive Cavity Transfer Pump Assembly (OPTION)
12	Skid, Poly, 47" x 39" x 5 3/4"
**13	Hopper, 1.0 cu/ft, SS (OPTION)



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