

PROBATCH MAX

Dry Polymer Activation

The VeloDyne ProBatch Max Dry Polymer Activation System is designed for medium flow applications. The ProBatch Max comes in various loading and size configurations to fit your unique application and plant layout.



KEY FEATURES

- Accurate Dispensing of Dry Polymer
- Superior Polymer Activation
- Custom Designs and Configurations
- Integrated Controls

The VeloDyne ProBatch Max dry polymer activation system is for direct wetting of dry polymer. This is done through a two-stage hydration method. The first stage is primary hydration; which takes place in VeloDyne's Wetting Bowl. The wetting bowl's water inlet is designed to produce a cyclone effect inside the bowl to properly initiate the hydration process of the dry polymer. The wetted polymer is then transferred to a mix/age tank via an eductor for further hydration and aging of the polymer in a low intensity environment. VeloDyne provides a final solution pump skid to meter the polymer solution to the process.

PROBATCH MAX SYSTEM

- Volumetric Feeder Accurate dispensing of polymer
- Wetting Bowl:
 - Direct wetting of dry polymer
 - Isolation Cylinder – Prevent Moisture in Feeder Discharge Spout
 - Initial wetting and hydration
- Eductor – Transfers wetted polymer to mix/age tanks
- Mix/Age Tanks – Further polymer hydration and aging
- Solution Metering Pump System – Meters polymer solution to point of application

VEL  DYNE



PROBATCH MAX

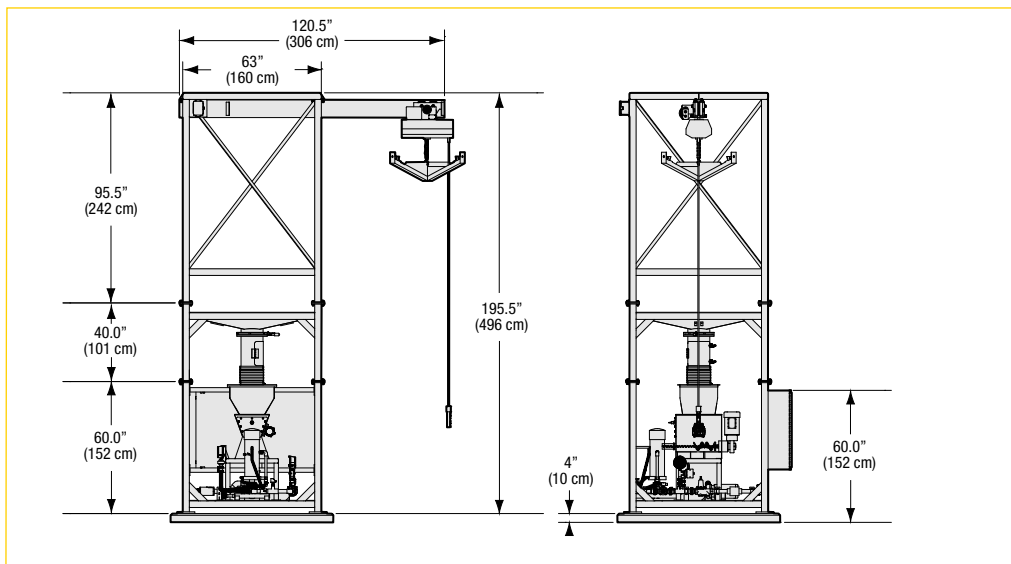
Dry Polymer Activation



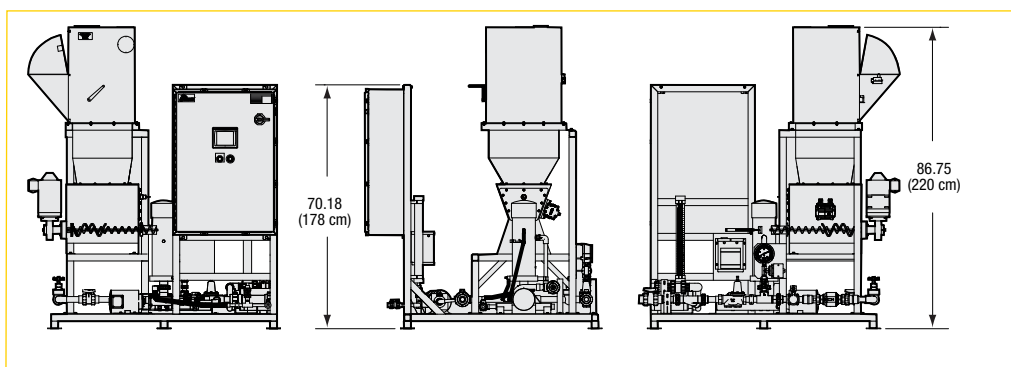
POLYMER STORAGE, METERING & WETTING SKID

- Bulk Bag or Manual Unloading
- Volumetric Feeder
- Wetting Bowl
- Eductor
- Optional Dust Collector
- PLC Controls with HMI Touchscreen

BULK BAG FRAME DIMENSIONS



FEED AND WETTING SKID DIMENSIONS



Mix/Age Tank Configurations:

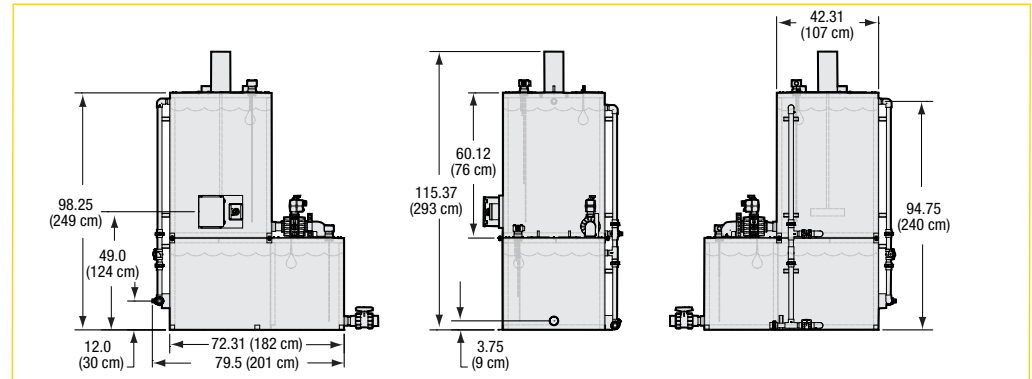
- Stacked Tanks
- Side by Side Tanks

HYDRATION

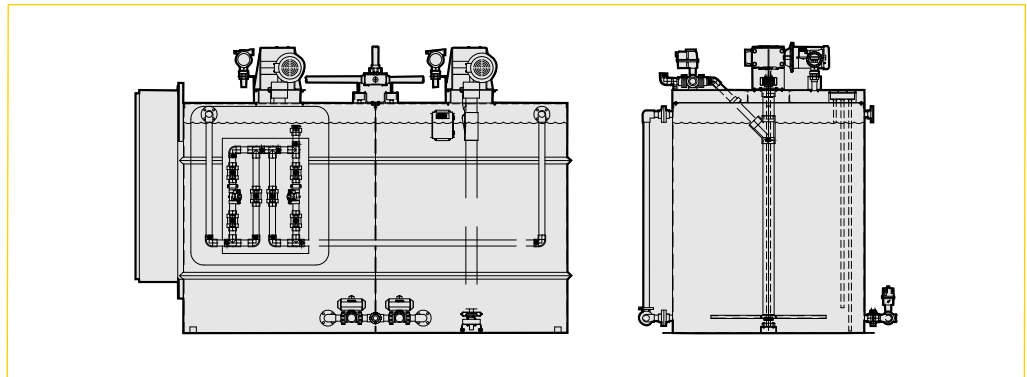
Mix tanks can be supplied in two different configurations, stacked or side by side. The polymer solution is mixed in one tank for a set period of time and then aged before final solution is used. Typical equipment included: Mixers, dump valve, piping and junction box.



STACKED MIX/AGE TANK DIMENSIONS



SIDE BY SIDE TANK



SOLUTION DELIVERY

Once the Polymer is properly activated a pump skid is used to transfer the solution to the desired process point. The system comes complete with local controls, pumps, pressure gauges and static mixers.

SOLUTION METERING PUMP SYSTEMS

Solution Pump Skid

- Pumps
- Static Mixers
- Relay Logics Controls
- Calibration Column





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PROBATCH MAX SYSTEM SELECTION GUIDE

STORAGE HOPPER CAPACITY	
3.5 CUBIC FT EXTENSION HOPPER	
10 CUBIC FT EXTENSION HOPPER	
2,000 lb. BULK BAG SUPPORT FRAME W/ HOIST	
2,000 lb. BULK BAG SUPPORT FRAME (FORKLIFT)	
DUST COLLECTION	
BAG LOADING STATION W/ INTEGRAL DUST COLLECTOR	
FLOOR MOUNTED DUST COLLECTOR	
FEEDER SELECTION	
BARRACUDA 1500A : 0-12 CUBIC FEET/HR	
BARRACUDA 3000A: 12-100 CUBIC FEET/HR	
TANK CAPACITIES	
OVER/UNDER 200 GAL. MIX / 250 GAL. FEED (8.6#/HR, 0.5% SOL'N CONC. 45 MIN. AGING)	
OVER/UNDER 400 GAL. MIX / 430 GAL. FEED (15#/HR, 0.5% SOL'N CONC., 45 MIN. AGING)	
SIDE X SIDE 750 GALLON MIX/AGE/FEED (X2) (29.8#/HR, 0.5% SOL'N CONC., 45 MIN. AGING)	
CONTROL SYSTEM	
ALLEN BRADLEY (MICROLOGIX)	
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MODICON (M340)	
MODICON (QUANTUM)	
SEIMENS (SEMANTIC)	
POWER OPTIONS	
380VAC, 3PHASE, 50HERTZ	
460VAC, 3PHASE, 60HERTZ	
600VAC, 3PHASE, 60HERTZ	
NO CONTROLS	
EMULSION POLYMER PUMP OPTION	
24GPH PROGRESSIVE CAVITY PUMP	
48 GPH PROGRESSIVE CAVITY PUMP	



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