

PolyBlend® Liquid Polymer Batch System M Series

The PolyBlend® M Series liquid polymer batch system is the best product available to handle your liquid/solid separation needs. The M Series combines proven motorized mixing technology with precise controls to provide superior polymer preparation. In addition, the M Series can be configured with a variety of pump offerings, variable speed mixing and automatic dosage control with constant solution strength to meet a wide range of polymer feed application requirements. Liquid polymer solution pumps are all designed for viscous polymer solutions.

The M Series is engineered for quick, easy service and is built to last. The open-frame design permits easy maintenance and is engineered to handle the harshest environments.

The M Series is designed to handle new polymer developments, ultra-high molecular weights, different charge densities, and even totally new chemistries. A constant speed motor is standard and optional variable speed drives are available to accommodate application or technology changes. Optional advanced controls provide precise and consistent solution strength. Polymer and dilution water are kept at the same ratio as the output volume is adjusted to the batch tank.

Polymer solution pumps can be adjusted locally or remotely via 4-20 mA signal and remote or local start/stop control.

Float-type level controls are standard for reliable automation of the batching process.

A variety of models are available. Choose between diaphragm or progressive cavity polymer pumps for your application.

Key Benefits

- Improved polymer efficiency
- Open-frame design for easy access
- Direct drive mixing
- Optional advanced controls
- Pump interchangeability
- Optional post dilution

Specifications

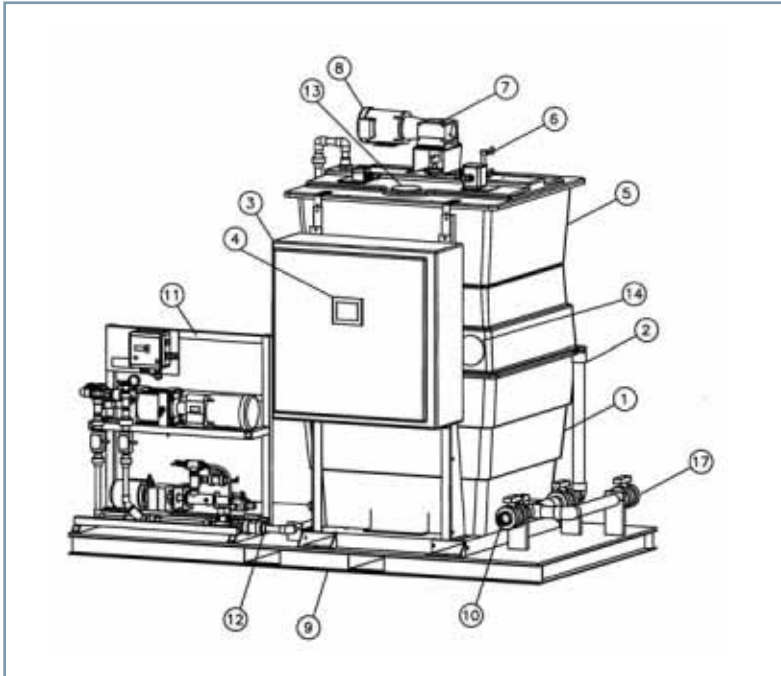
| | |
|------------------------|--|
| Power | 115-230 VAC / 60 Hz / 1 Phase 230-460 VAC / 60 Hz / 1 Phase |
| Dimensions (W x H x D) | 1219.3 x 1066.8 x 1219.2 mm 48" x 42" x 48" |
| Polymer pump | Diaphragm |
| Material | 304 SS Frame / PVC |
| Controls | Microprocessor-based REM-1E |



Product Sheet

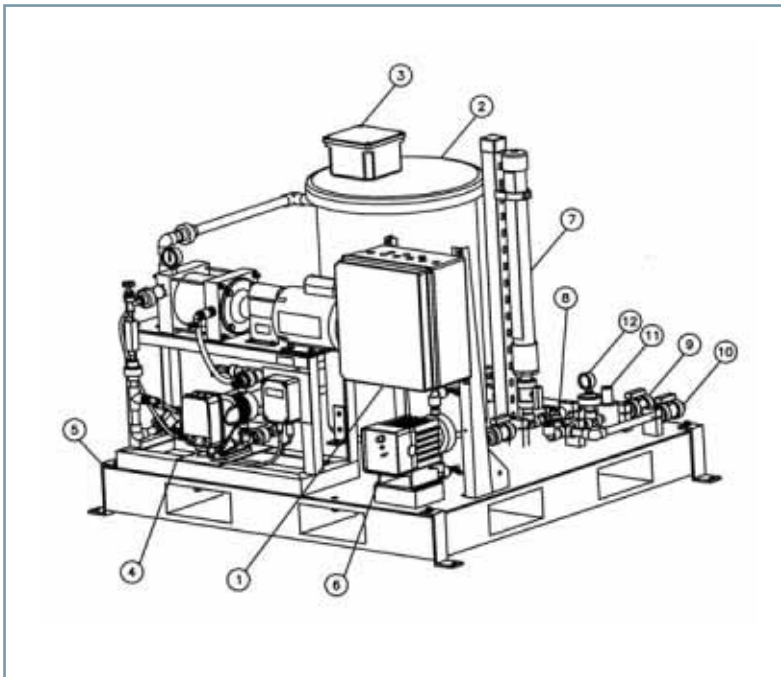
General Layout

Batching System with Stacked Tanks



| Key Description | |
|-----------------|---|
| 1 | Hold Tank, 605.7 L (160 USG), Fiberglass |
| 2 | Sit Tube, Clear PVC |
| 3 | System Control Panel |
| 4 | Operator Interface |
| 5 | Mix Tank, 605.7 L (160 USG), Fiberglass |
| 6 | Dump Valley Actuator |
| 7 | Speed Reducer, 15:1 |
| 8 | Mixer Motor, 1.5 HP, 1740 RPM, TEFC |
| 9 | Skid with Fork Truck Cut Outs |
| 10 | Discharge, 50.8 mm (F)NPT (2") |
| 11 | Polymer Polymer Mixer |
| 12 | Dilution Water Inlet, 25.4 mm (F)NPT (1") |
| 13 | Inspection Port, Mix Tank |
| 14 | Inspection Port, Hold Tank |

Low Volume Batching System



| Key Description | |
|-----------------|---|
| 1 | Control Panel, NEMA 4X, FRP |
| 2 | Tank, PE, 113.6 L (30 G) |
| 3 | Level Assembly |
| 4 | PolyBlend, Polymer Mixer |
| 5 | Skid, PE, 1219.2 x 1219.2 mm (48" x 48") |
| 6 | Polymer Solution Metering Pump |
| 7 | Calibration Cylinder, PVC |
| 8 | "Y" Strainer, 12.7 mm (1/2"), PVC |
| 9 | Solution Discharge, 12.7 mm (F)NPT (1/2") |
| 10 | Discharge Bleed, 12.7 mm (F)NPT (1/2") |
| 11 | Backpressure Valve, 12.7 mm (F)NPT (1/2") |
| 12 | Discharge Pressure Gauge with Seal |

Siemens
Water Technologies

Germany
+49 8221 9040
wtger.water@siemens.com

United Kingdom
+44 1732 771777
wtuk.water@siemens.com

USA
+1 800 245 3006
dewatering.water@siemens.com

© 2008 Siemens Water Technologies Corp.
Literature No.: EP.480.320.MMO.IE.PS.1108
Subject to change without prior notice.

PolyBlend and Hydroforce trademarks of Siemens, its subsidiaries or affiliates. NEMA is a trademark of the National Electrical Manufacturers Association. Protected by U.S. patents 5061456, 5164429, 5018871, 5252635, 5316031 and 5135968.

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 the contract.