Water Technologies

PolyBlend® M Series Polymer Feed System

Product Sheet

SIEMENS

The PolyBlend® M Series liquid polymer feed 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. The M Series units are also available for classified area environments including Class 1, Division 1 and Class 1, Division 2 areas.

The M Series is engineered for quick easy service and is built to last. The open frame design permits quick and easy maintenance and the M Series 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 on the M Series and optional variable speed drives are available to accommodate application or technology. Optional advanced controls provide precise and consistent solution strength. Whether you adjust the M Series output remotely via 4-20 mA signal or right at the unit, water flow and polymer feed increase or decrease together. Primary and secondary dilution water are also kept at the same ratio as the output is adjusted.

A variety of models are available covering output ranges from 0.1 to 200 USGPM (0.4 to 757.9 LPM) Choose between diaphragm, gear, or progressive cavity polymer pumps for your application.

Specifications

Power	115-230VAC / 60 Hz / 1 Phase 230-460VAC / 60 Hz / 3 Phase
Dimensions	36"W (914.4mm) x 41" H (1041.4mm) x 20" D (508mm)
Polymer Pump	Diaphragm, Gear, or Progressive Cavity
Material	304 SS Frame / PVC
Controls	PolyBlend® A, B, or C

Benefits of the PolyBlend® M Series:

- Improved Polymer Efficiency Providing Maximum Polymer Activation
- Open-Frame Design for Easy Access
- Reliable and Consistent Direct Drive Mixing
- Optional Advanced Controls to Meet Your Application Need

M Series Model Numbering Guide

The model numbers for the M-Series can be generated as follows:

EXAMPLE: M 2400 - P - 10 A B – V

Water Flow Rate in GPH (LPH)

240/(912)
600/(2280)*
1200/(4540)
2400/(9120)
6000/(380 LPM)
12000/(760 LPM)

Pump Type and Output in GPH (LPH)

Diaphragm	Gear	Progressive Cavity
D.4/(1.5)	G18/(68)	P5/(19)
D1/(3.8)	G36/(137)	P10/(38)
D2.5/(9.5)	G60/(228)	P30/(114)
D4/(15.2)	G200/(760)	P50/(190)
D10/(38)	G660/(2508)	

*Model Number is "601"

Options

V – Variable speed mixer

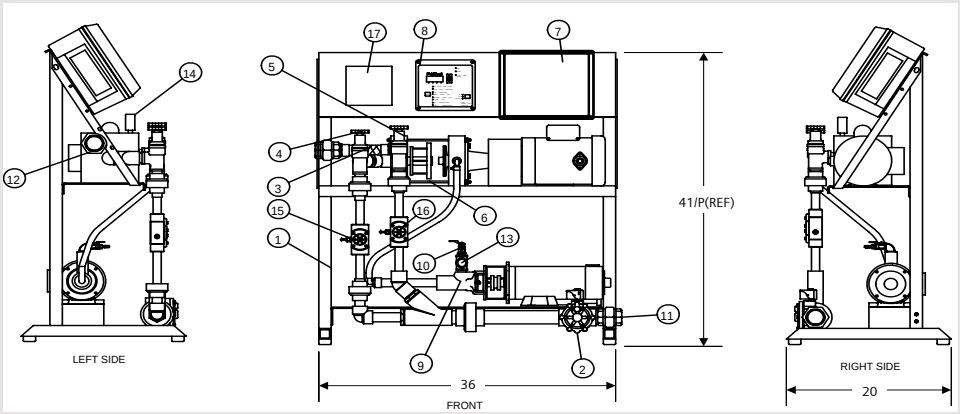
Controls

A – On-Off-Remote
B – Microcontroller
C – Flow Proportional

Voltage

A – 115VAC/60Hz/1ph
B – 460VAC/60Hz/3ph
C – 230VAC/60Hz/1ph

General Layout



Key	Description
1	Base Assembly
2	Solenoid Valve
3	Static Mixer
4	Primary Dilution Control Valve
5	Secondary Dilution Control Valve
6	Mix Chamber
7	Motor Control Panel
8	Micro-Controller
9	Pump, Progressive Cavity
10	Pump, Priming Port
11	Water Inlet
12	Solution Discharge
13	Polymer Inlet
14	Pressure Gauge (Mix Chamber)
15	Primary Dilution Water Sensor
16	Secondary Dilution Water Sensor
17	Operators Instructions

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