

# PolyBlend® HMZ Liquid Polymer Feed Systems

## Small and large frame

### Introduction

The PolyBlend systems are automated polymer feed systems for precise control and economical performance of liquid grade polymers:

Polyelectrolytes require specifically designed energy regimes during preparation to attain correct physico chemical state in solution to perform the tasks they were designed for: That's why PolyBlend automated polymer feed systems provide precise programmable control of dosing rate dilution levels retention time and energy: With this exclusive control of these process variables you can be sure your polymers have the ideal mixing environment: That means you get the maximum yield efficiency from any polymer:

### PolyBlend Systems

The PolyBlend system has proven itself superior and more economical than other systems including batch mixing static mixer combinations and centrifugal pumps: That demonstrated superiority in field comparisons has made PolyBlend systems the preferred choice worldwide for polymer activation:

PolyBlend systems achieve this unequalled performance with a simple and reliable on going technology from in house corporate R & D technology that provides consistently uniform and repeatable results:



Best of all you achieve these results with totally automated operation giving you the right polymer activation for optimum coagulation and flocculation every time: Other benefits are its versatility portability compactness resilience and ease of installation and operation:

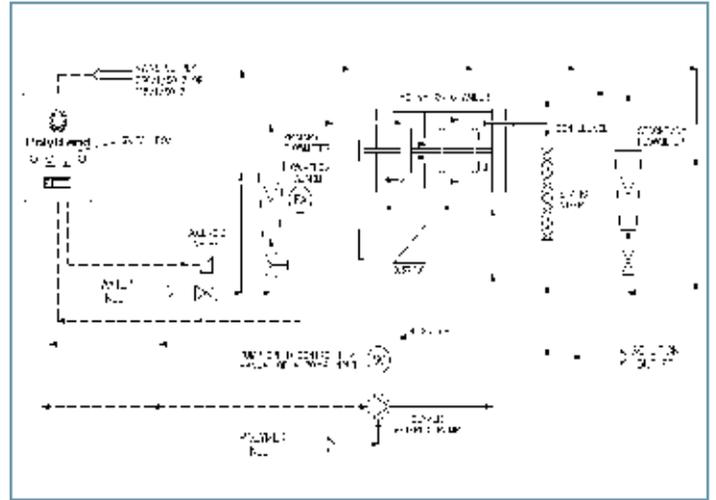
Consult Siemens Water Technologies for an engineered response to your polyelectrolyte preparation requirements:

### Features

- High capacity mixing chamber
- The unique multi zone activation chamber is designed to give energy values appropriate to the swelling and hydration needs of the chemical through this operation
- Flow sensors variable set point for low water protection auto restart
- Electrical 110 V AC or 220-230 VAC -1-50 Hz
- Maximum water pressure 5 bar
- Mixer motor 0.37 kW TEFC
- Single phase continuous duty
- Remote Proportional Control via 4-20 mA signal or manual control

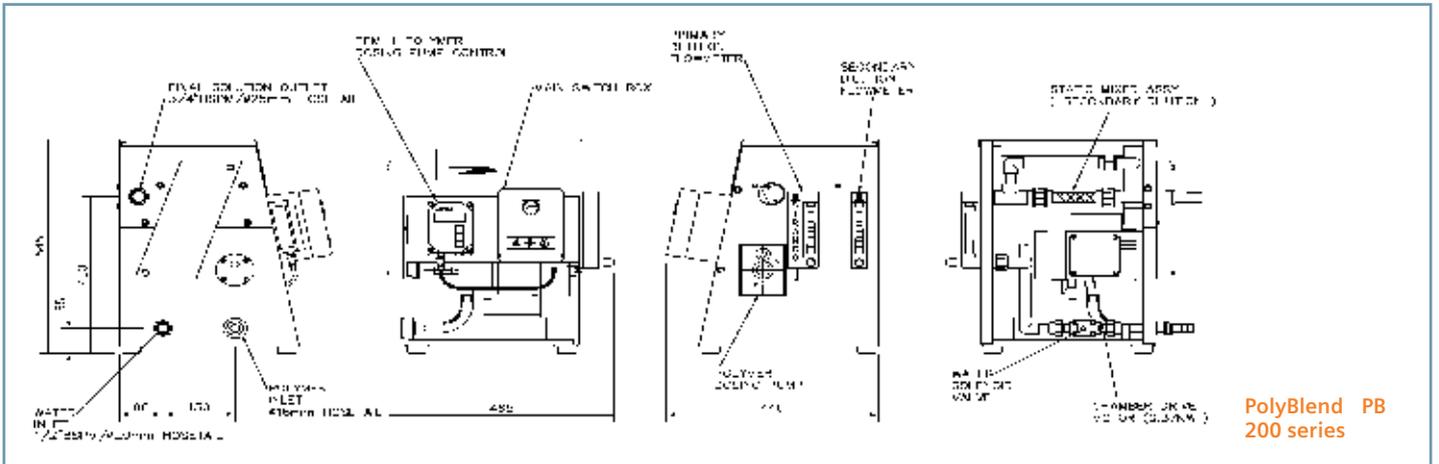
Technical data

PolyBlend System Model No	Dilution Water Flow l/h	Neat Polymer Feed Range l/h
PB 8 1	2:5 30	:00025 3:7
PB 16 1	5:0 60	:00025 3:7
PB 32 1	8 120	:00025 3:7
PB 50 1	18 160	:00025 3:7
PB 100 1	50 375	:00025 3:7
PB 200 1	50 875	:00025 3:7
PB 600 2	240 2400	:00036 7:5
PB 600 4:5	240 2400	:00051 17
PB 1000 2	240 2400	:00036 7:5
PB 1000 4:5	240 2400	:00051 17
PB 1000 8	240 2400	0:3 30

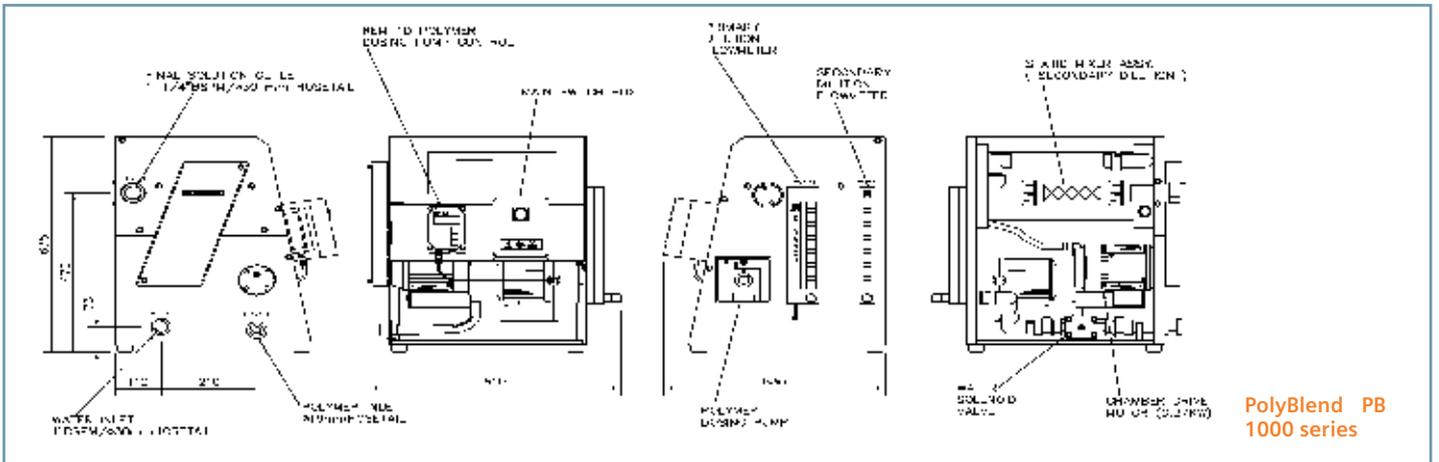


PolyBlend PB 200 1000 Series Flow Schematic

These models integrally incorporate the secondary dilution system comprising of an extra flowmeter static mixer and accommodating pipework: All models are also available with motorised progressive cavity pumps (refer to the PolyBlend PC range :



PolyBlend PB 200 series



PolyBlend PB 1000 series