Polyblend HMZ Liquid Polymer Feed
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 the correct physio-chemical state in solution to perform the tasks they were designed for.

That’s why the 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 yield comparisons has made PolyBlend® systems the preferred choice worldwide for polymer activation.

PolyBlend® systems achieve this unequalled performance with a simple and reliable ongoing 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.

- 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-points for low water protection, auto restart
- Fast and easy service of valve assemblies without disturbing the suction and discharge piping
- Choice of configurations—Simplex / Duplex / Double simplex to suit the complexity of the application / site layout restrictions
- Electrical: 110 V AC or 220/230 V AC / 1 pH / 50 Hz
- Maximum water pressure: 5 bar
- Mixer motor: 0.37 KW, TEFC
- Single phase continuous duty
- Remote Proportional Control via 4-20mA signal or manual control
PolyBlend PB 200 & 1000 Series Flow Schematic

MAINS SUPPLY 230/1/50Hz OR 115/1/50Hz

POLYBLEND SWITCH BOX

LOW-FLOW ALARM

ACTIVATION CHAMBER

CONFLUENCE SECONDARY FLOWMETER

STATIC MIXER

SOLUTION OUTLET

POLYMER METERING PUMP

POLYMER INLET

WATER INLET

SOLENOID VALVE

WATER INLET

4-20 mA

PUMP SPEED CONTROL REM-1 MANUAL OR 4-20mA INPUT

POLYBLEND SYSTEM MODEL NO.

Dilution

Water Flow

l/h

Primary / Secondary

Neat Polymer Feed Max

l/h

<table>
<thead>
<tr>
<th>PolyBlend System Model No.</th>
<th>Dilution Water Flow l/h</th>
<th>Neat Polymer Feed Max l/h</th>
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<tbody>
<tr>
<td>PB 16 - 1</td>
<td>5 - 60</td>
<td>3.7</td>
</tr>
<tr>
<td>PB 100 - 1</td>
<td>50 - 375</td>
<td>3.7</td>
</tr>
<tr>
<td>PB 100 - 2</td>
<td>50 - 375</td>
<td>7.5</td>
</tr>
<tr>
<td>*PB 200 - 1</td>
<td>50 - 375 / 0 - 500</td>
<td>3.7</td>
</tr>
<tr>
<td>*PB 200 - 2</td>
<td>50 - 375 / 0 - 500</td>
<td>7.5</td>
</tr>
<tr>
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<td>7.5</td>
</tr>
<tr>
<td>PB 600 - 4.5</td>
<td>0 - 2400</td>
<td>17</td>
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<tr>
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<tr>
<td>*PB 1000 - 4.5</td>
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<td>17</td>
</tr>
</tbody>
</table>

*These models internally incorporate the secondary dilution system
Water Process Solutions comprises a group of highly experienced water treatment professionals. Our personnel have backgrounds with brands and companies such as Wallace & Tiernan, Stranco and Chemfeed, all well known and trusted within the water industry.

Based in Kent, our aim is to provide customers with the equipment and support they need for effective and reliable water treatment.

For further information, visit our web site.

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