## Polymer Blending & Dry Feed Solutions

### QUICK REFERENCE

**“Polymer Blending & Dry Feed Solutions” T.O.C. IX**

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- Analytical Instrumentation Overview

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- Beta b
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- delta
- Sigma/ X: Sigma/ 1
- Sigma/ X: Sigma/ 2
- Sigma/ X: Sigma/ 3
- ProMus
- Hydro 2 API 675
- Hydro 2 API 675
- Makro
- Orita
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- Motor pump spare parts
- Pump accessories
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- DACb
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- DMT
- D1Cb/c
- DACb
- Dulcometer Compact
- DMT

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- DULCOTEST sensors
- Polymer blending & dry feed solutions
- ProMix™-M (In-line Controls)
- ProMix™-M (Batch & In-line Controls)
- ProMix™-S
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- ProMix™-C
- ProMdry™
The ProMinent® ProMix™ is a pre-engineered polymer mixing system with intuitive controls. Designed as an in-line or makedown unit, the ProMix™ is engineered to meet liquid polymer applications utilizing diaphragm or progressive cavity pump technologies. The unique mixing regime delivers a highly activated polymer solution to every application with optimum performance.

**Feature & Benefits**

- LCD display with touchpad control
- 4-20 mA input to pace pump
- Remote start/stop
- General alarm contacts
- Adjustable flush settings
- True multi-zone mixing chamber that delivers a tapered energy profile for proper polymer activation
- Unique injection check valve with easy access for cleaning
- Diaphragm and progressive cavity pump options
- System protection against loss of water flow
- Precise activated polymer solution delivery
- Open design for easy maintenance
- Suction lift or flooded suction
- Twist lock fittings
- Selectable emulsion or mannich polymer

**Specifications**

- Water Inlet: 1-1/2” FNPT
- Polymer Inlet: 1/2” or 1” FNPT
- Product Outlet: 1-1/2” FNPT
- Drain Connection: 1/4”
- Max. Operating Pressure: 100 PSIG
- Power Supply:
  - DA Models 120 VAC, 1 ph, 60 Hz, 20 Amp
  - PA Models 220 VAC, 1 ph, 60 Hz, 20 Amp
- Motor: 1.5 hp, 115/230 VAC, 1 PH, TEFC, 1725 rpm
- Dimensions: 40” x 34” x 72” (L x W x H)
### Capacity Data

#### Diaphragm Metering Pump Systems

ProMix™-M / Diaphragm Metering Pump Systems

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Model Number</th>
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<th>Neat Polymer Pump</th>
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#### Progressive Cavity Pump Systems

ProMix™-M / Progressive Cavity Pump Systems

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### Dimensional Drawings

[Front View](#)  
[Side View](#)  
[Plan View](#)
Overview: ProMix™-M (Batch & In-line Controls)

The ProMinent® ProMix™ is a pre-engineered polymer mixing system with intuitive controls. Designed as an in-line or makedown unit, the ProMix™ is engineered to meet liquid polymer applications utilizing diaphragm or progressive cavity pump technologies. The unique mixing regime delivers a highly activated polymer solution to every application with optimum performance.

Feature & Benefits

- LCD display with touchpad control
- 4-20 mA input to pace pump
- Remote start/stop
- General alarm contacts
- Adjustable flush settings
- True multi-zone mixing chamber that delivers a tapered energy profile for proper polymer activation
- Unique injection check valve with easy access for cleaning
- Diaphragm and progressive cavity pump options
- System protection against loss of water flow
- Precise activated polymer solution delivery
- Open design for easy maintenance
- Suction lift or flooded suction
- Twist lock fittings
- Selectable emulsion or mannich polymer
- Select batch or in-line controls

Specifications

- Water Inlet: 1-1/2” FNPT
- Polymer Inlet: 1/2” or 1” FNPT
- Product Outlet: 1-1/2” FNPT
- Drain Connection: 1/4”
- Max. Operating Pressure: 100 PSIG
- Motor: 1.5 hp, 115/230 VAC, 1 PH, TEFC, 1725 rpm
- Dimensions: 40” x 34” x 72” (L x W x H)

- Power Supply:
  - DB Models 120 VAC, 1 ph, 60 Hz, 20 Amp
  - PB Models 220 VAC, 1 ph, 60 Hz, 20 Amp
## Capacity data

### Diaphragm Metering Pump Systems

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Model Number</th>
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### Progressive Cavity Pump Systems

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<thead>
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<th>Model Number</th>
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## Dimensional Drawings

- **Front View**
- **Side View**
- **Plan View**
The ProMinent® ProMix™ is a pre-engineered polymer mixing system made for the water and wastewater markets. Designed as an in-line unit, the ProMix™ can be customized to meet most liquid polymer applications utilizing tubing or diaphragm pump technologies depending on the application requirement or customer preference. The unique mixing chamber allows for complete makedown of the neat or diluted polymer to guarantee a problem-free injection.

**Feature & Benefits**

- Open design for easy maintenance
- True multi-zone mixing regime for proper polymer activation
- Unique injection check valve with easy access for cleaning
- Adjustable auto flush settings
- System protection against loss of water flow
- Precise activated polymer solution delivery
- Remote start/stop
- LCD display with touchpad control
- 4-20 mA input to pace pump
- General alarm contacts
- Twist lock fittings for easy maintenance of polymer and water connections
- Selectable start/stop and 4-20 mA control from the control panel
- Adjustable neat polymer pump for flooded suction or suction lift applications

**Specifications**

- Water Inlet: 3/4” FNPT
- Polymer Inlet: 1/2” FNPT
- Product Outlet: 3/4” FNPT
- Drain Connection: 1/4”
- Max. Operating Pressure: 100 PSIG
- Power Supply: 120 VAC, 1 Phase, 60Hz
- Current Load: 15 Amp
- Motor: 1/2 hp, 115/230 VAC, 1 Phase, TEFC, 1725 rpm
- Dimensions: 24” x 34” x 66” (L x W x H)
- Neat Polymer Pump: Peristaltic or Diaphragm design
### ProMinent® ProMix™-S

#### Capacity data

### Peristaltic Tube Pump Systems

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<th>Max. Pump Pressure</th>
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### Diaphragm Metering Pump Systems

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<th>Neat Polymer Pump</th>
<th>Max. Pump Pressure</th>
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### Dimensional Drawings

- **Front View:**
  - Dimensions: 34.00 x 66.00
- **Side View:**
  - Dimensions: 24.00 x 66.00
- **Plan View:**
  - Dimensions: 34.00 x 24.00

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**Polymer Blending & Dry Feed Solutions**
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**Feature & Benefits**

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- True multi-zone mixing regime for proper polymer activation
- Unique injection check valve with easy access for cleaning
- Adjustable auto flush settings
- System protection against loss of water flow
- Precise activated polymer solution delivery
- Remote start/stop
- LCD display with touchpad control
- 4-20 mA input to pace pump
- General alarm contacts
- Twist lock fittings for easy maintenance of polymer and water connections
- Selectable start/stop and 4-20 mA control from the control panel

**Specifications**

- Water Inlet: 3/4” FNPT
- Polymer Inlet: 1/2” FNPT
- Product Outlet: 3/4” FNPT
- Drain Connection: 1/4”
- Max. Operating Pressure: 100 PSIG
- Power Supply: 120 VAC, 1 Phase, 60Hz
- Current Load: 15 Amp
- Motor: 1/2 hp, 115/230 VAC, 1 Phase, TEFC, 1725 rpm
- Dimensions: 24” x 26” x 50” (L x W x H)
- Neat Polymer Pump: Peristaltic or Diaphragm design
ProMinent® ProMix™-C

Capacity data

Diaphragm Metering Pump Systems

ProMix™-C / Peristaltic Tube Pump Systems

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<th>Part Number</th>
<th>Model Number</th>
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Diaphragm Metering Pump Systems

ProMix™-C / Diaphragm Metering Pump Systems

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Dimensional Drawings
**Overview: ProMdry™**

The ProMdry™ system is designed to mix dry chemicals into solution prior to adding to the water treatment process. The volumetric feeder dispenses dry chemical into the mix tank while the flow switch is monitoring water entering the mix tank. The dry chemical and the water are introduced directly into the prop style tank mixer, where they are mixed into solution. The solution is then drawn from the opposite side of the tank to the process.

**Features & Benefits**

- Rugged PE volumetric feeder with internal arch breaker
- Can be configured as a batching system or as an inline feed system
- Corrosion resistant, 35 gallon, fiberglass tank
- Fully automated control
- Integral level switches, water on/off solenoid, mixer and variable speed volumetric feeder.
- NEMA 4X
- Remote start input, alarm status output relay
- Corrosion resistant 316 SS mixer shaft and mixing prop

**Applications**

- Municipal water treatment
- Hydrated lime
- Soda ash
- Sodium bicarbonate
- Activated carbon
- Compatible with most dry chemicals (consult factory)

**Technical Data**

**Specifications**

- Water Flow: up to 15USGPM at 30psid
- Dry Feed Rate: up to 2.4 cubic ft / hour (depends on desired/maximum concentration)
- Solution Output Flow: up to 15USGPM
- Power input: 120VAC, 1 phase, 60Hz, 20 Amp

**Materials of Construction**

- Mix Tank and Cover: (Chemical resistant fiberglass reinforced vinylester) 35 US Gallons
- Volumetric Feeder: Polyethylene housing, 304SS feed screw and discharge spout
- Control Panel: NEMA 4X Polycarbonate
- Tank Mixer: 316 SS propeller and shaft
- Various tank sizes and hoppers available in PE and SS
### Capacities

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Tank size: 35 gallons  
Fill rate: 10 gpm

### Dimensional Drawings

#### FRONT VIEW

#### PLAN VIEW

### Dimensions

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</tr>
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<td></td>
<td>3 TDG110 - 2.87 cubic ft/hr</td>
<td></td>
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<td>1 cubic ft SS</td>
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