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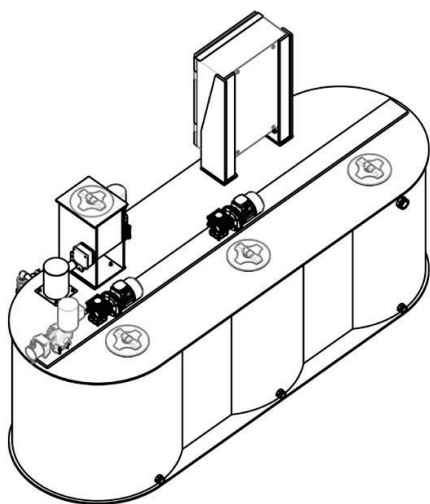
<https://injecta.nt-rt.ru> || [ntc@nt-rt.ru](mailto:ntc@nt-rt.ru)

## PMIX SERIES (Polymer Preparation Unit)

### PMIX 180 – PM SERIES - Tanks material PPH

#### Technical characteristics

- Variable capacity powder dosing unit with hopper
- Water inlet and regulation unit, solenoid valve, pressure switch, dispersion nozzle
- Preparation tank divided in two or three sectors for dissolving, maturing and storage. Each compartment is covered
- Control and command electrical switchboard enabled to provide fully automatic plant running.
- Solution dosage system can be flexibly tailored from our wide range of dosing pumps (ask for the specific catalogue)



**The PMIX series** are automatic systems for the continuous preparation of polyelectrolyte solutions.

Polyelectrolytes are water soluble polymers carrying an ionic charge along the polymer chain. Depending upon the charge, these polymers are anionic (positively charged) or cationic (negatively charged). Polyelectrolytes have a wide range of applications from water purification, to oil recovery, from colour removal, to paper making and mineral processing. Polyelectrolytes are both flocculants as well as deflocculants depending upon the molecular weight. A flocculant is essentially a solid liquid separating agent while a deflocculant is a dispersing agent.

Polyelectrolytes are dissolved into water to form a solution that can agglomerate suspended particles with a view to obtaining larger sized flocules and therefore a more rapid solid/liquid separation. Preparation of the solution very often has to be done continuously and automatically and must also be remotely controllable. The PMIX of continuous Polymer Preparation Units is a reliable response to these requirements. Constructed in multiple variants with different capacities, these systems can satisfy a broad range of needs using polyelectrolytes in both powder and emulsion form.

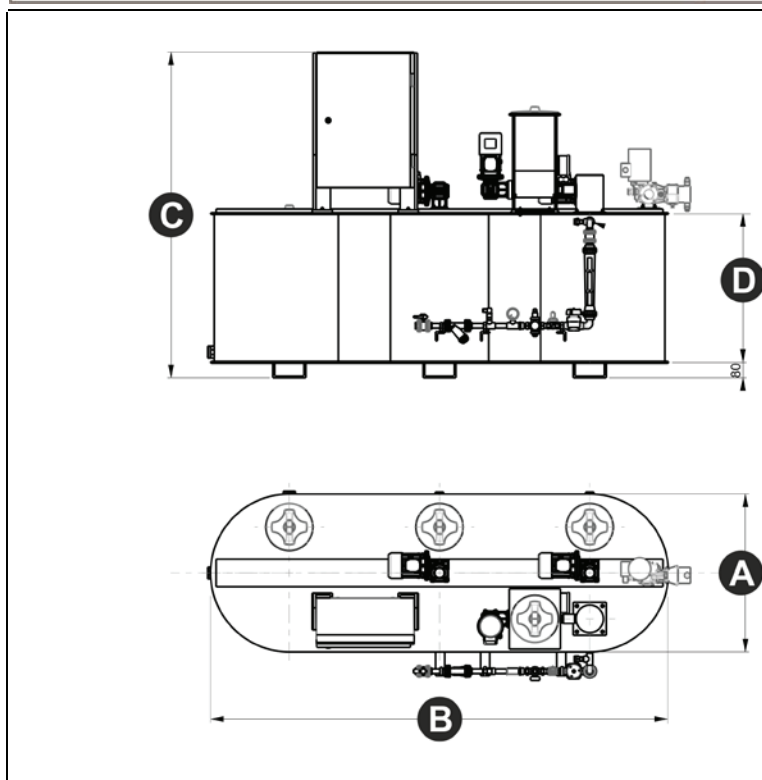
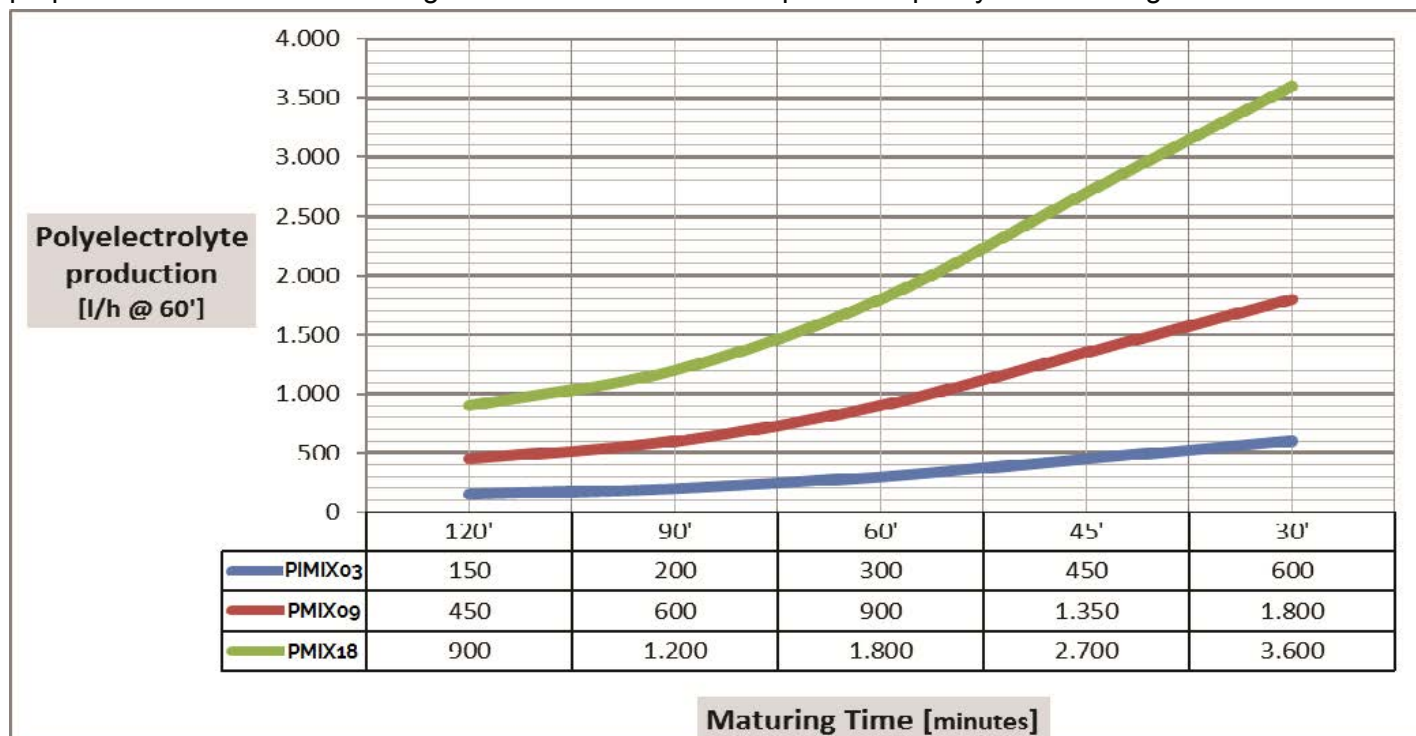
The PolyMaster System is an automatic, triple chamber batching system for powdered flocculent, suitable for the preparation of 0.05 to 0.5% polymer solutions and represents the most complete offering of the PMIX series.

#### Advantages

- System comes assembled ready for operation
- 3 individual cylindrical polypropylene storage tanks serve as batching, maturing and storage tanks
- Cylindrical storage tanks are hydraulically coupled via overflow channels
- Dry feeder with drive motor, dosing pipe heating and powder funnel with seal tight lid
- Flushing system for flushing and wetting of the powder
- Gentle mixing with two electric stirrers for constant performance
- Control cabinet for automatic control of the entire system

## Choice of Plant

The correct choice of plant and the full automation of the system means that solutions can be prepared in the correct concentration without waste and without in-line post dilution systems. Polyelectrolytes are available in both powder and liquid form and are considerably different, especially with regard to maturing time, which can vary anywhere from between 30 to 120 minutes. Therefore, proper consideration of maturing times needs to be made prior to capacity values being set.



### PMIX 180 Series – Overall dimensions

| [mm]        | PMIX03          | PMIX09        | PMIX18        |
|-------------|-----------------|---------------|---------------|
| A           | 670             | 860           | 1.060         |
| B           | 1.911           | 2.501         | 3.101         |
| C           | 1.634           | 1.774         | 1.974         |
| D           | 680             | 820           | 1.020         |
| Water inlet | DN 15<br>1 1/2" | DN 20<br>3/4" | DN 20<br>3/4" |

### PMIX 180 Series – Tank dimensions

| [m³]         | PMIX03 | PMIX09 | PMIX18 |
|--------------|--------|--------|--------|
| Total volume | 0.4    | 0.96   | 1.92   |
| dissolving   | 0.134  | 0.32   | 0.64   |
| maturing     | 0.134  | 0.32   | 0.64   |
| storage      | 0.134  | 0.32   | 0.64   |

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