



BURT | PROCESS EQUIPMENT

Partners In Global Water Quality



POLYMERPLUS

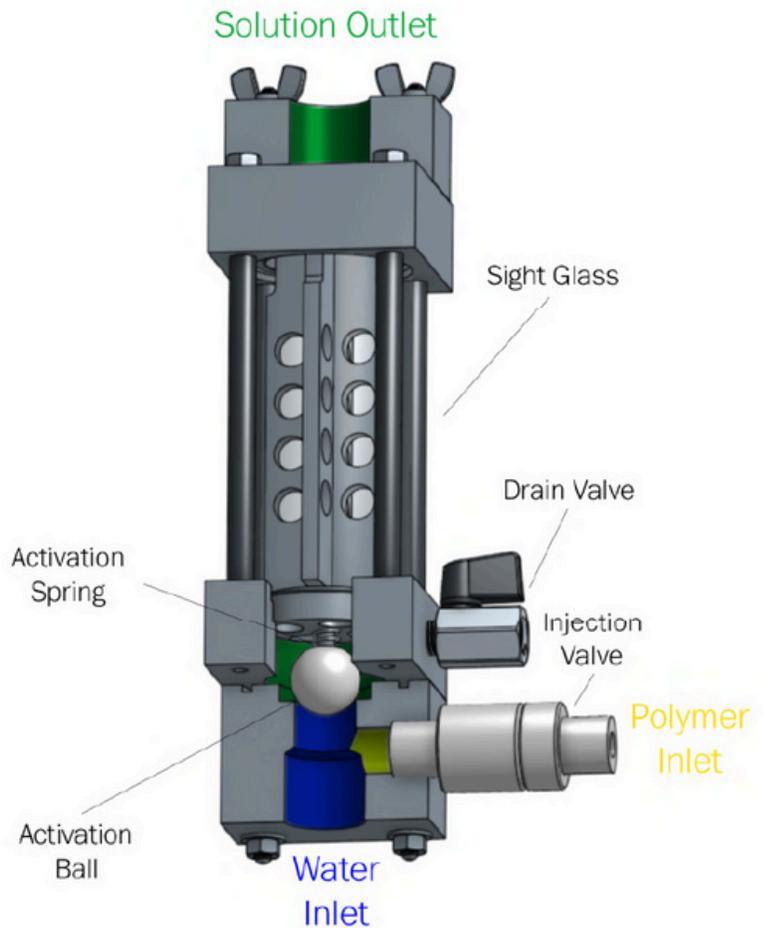
Advanced Activation System

Polymer Activation Chamber

Activation Chamber provides the high energy needed to activate all types of liquid polymers.

The chamber activates the polymer through a patented motor-less activation system. It injects the polymer into the dilution water stream and immediately makes the solution flow through a low pressure, high energy, activation nozzle.

The chamber operates like a low- pressure homogenizer. The polymer is activated as it passes through the annular nozzle orifice. The pressure drop across the nozzle is only 10 psi. This accelerates the solution to a velocity of about 40 ft./sec. The very high turbulence generated at the orifice activates the polymer. The polymer is exposed to this high activation energy only once, as it passes through the orifice.



The orifice opening self-compensates for solution flow changes. This assures that the polymer activation energy level remains adequate for the flow range of the feeder.

The activation chamber components are made of the following thermoplastics: PVC, Teflon and polypropylene. The spring is made of PVDF coated stainless steel. The entire assembly is assembled with stainless steel rods, and BUNA-N O-rings. The assembly can be easily disassembled and reassembled for quick repairs.

The injection valve has a PVDF body, a Viton seat and a Hastelloy spring. It is externally mounted for easy access.

Self-Cleaning Sight Tube

The activated polymer solution flows through a self-cleaning sight tube before it exits the feeder. The solution causes the patented cleaning assembly to operate continuously. The sight tube allows the operator to see that the feeder is operating properly.

6PSevo-400/1200 Polymer Feed System



Key features:

- ◆ Peristaltic pump design does not have valves that can clog requiring maintenance.
- ◆ Robust (IP66) Watertight Polymer Pump.
- ◆ Local and Remote-Control Operation.
- ◆ Solution Concentration Ratio Control.
- ◆ Integrated Batch System Program.
- ◆ Solution System Flush Control.
- ◆ State-of-the-Art Microprocessor Controller, with touchscreen.
- ◆ Proven, Patented, Motorless Activation.
- ◆ One-Gallon Stainless Steel Blending Chamber.
- ◆ Thermoplastic Piping for superior corrosion resistance.
- ◆ Stainless Steel Frame can be floor or wall mounted. Extended 16” legs are available.
- ◆ Twenty-Four month-warranty.

Product Overview:

With over 25 years of experience, our proven Motorless Polymer Activation Apparatus provides the high energy needed to activate all types of liquid polymers. The apparatus activates the polymer through a patented motor-less activation system. It injects the polymer into the dilution water stream and immediately makes the solution flow through a low pressure, high energy, activation nozzle. The activated polymer solution flows through a patented self-cleaning sight tube before it exits the feeder. The solution causes the patented cleaning assembly to operate continuously. The sight tube allows the operator to see that the feeder is operating properly.

The standard polymer feed system offers a neat polymer feed range of 0.001 to 7.67 gph. The maximum flow is programmable. The peristaltic pump design does not have valves that can clog requiring maintenance, it is self-priming even against maximum line pressure.

Engineering Specifications:

Maximum Working Pressure: 65 psig

Dilution Water Flow Rate:

6PSevo-400 Up to 400 gph
6PSevo-1200 Up to 1200 gph

Polymer Flow Rate:

0.001 to 7.67 gph

Process Controls: **6PSevo-400** **6PSevo-1200**

Dilution Water Inlet ...	1/2"	3/4"
Polymer Inlet	1/2"	3/4"
Solution Discharge	1/2"	3/4"

Operating Voltage: 120VAC 60hz 1ph

Programmable Inputs/Outputs:

8 Digital Inputs; 6 Relay Output; 4 Analog Inputs;
2 Analog Outputs

Overall Dimensions:

22"Wx18"Dx32"H

Product Weight:

88 lbs

Shipping Weight:

110 lbs

Materials of Construction:

Wetted Components:

Dilution Components:

Piping, Fittings, & Valves: Sch 80 PVC
Water Inlet Valve: 316 SS
(valve auto-closes if power is lost)

Electronic Flowmeter..... SS 316; PEEK
Globe Valve Stainless Steel 316L
Tubing Polyethylene
Tube Fittings Polypropylene

Polymer Components:

Ball Valves PVC
Calibration Column..... PVC
Hose PVC
Tubing Polyethylene
Tube Fittings Polypropylene
Injection Valve..... PVDF; Viton; Hastelloy

Solution Components:

Ball Valves PVC
Piping Schedule 80 PVC
Blending Chamber Stainless Steel 304
Apparatus Plates..... PVC / ABS
Sight Tube..... Acrylic

Non-Wetted Components:

Skid: Stainless Steel 304 Plate #4 Brushed Finish

Electrical Enclosure: Polycarbonate

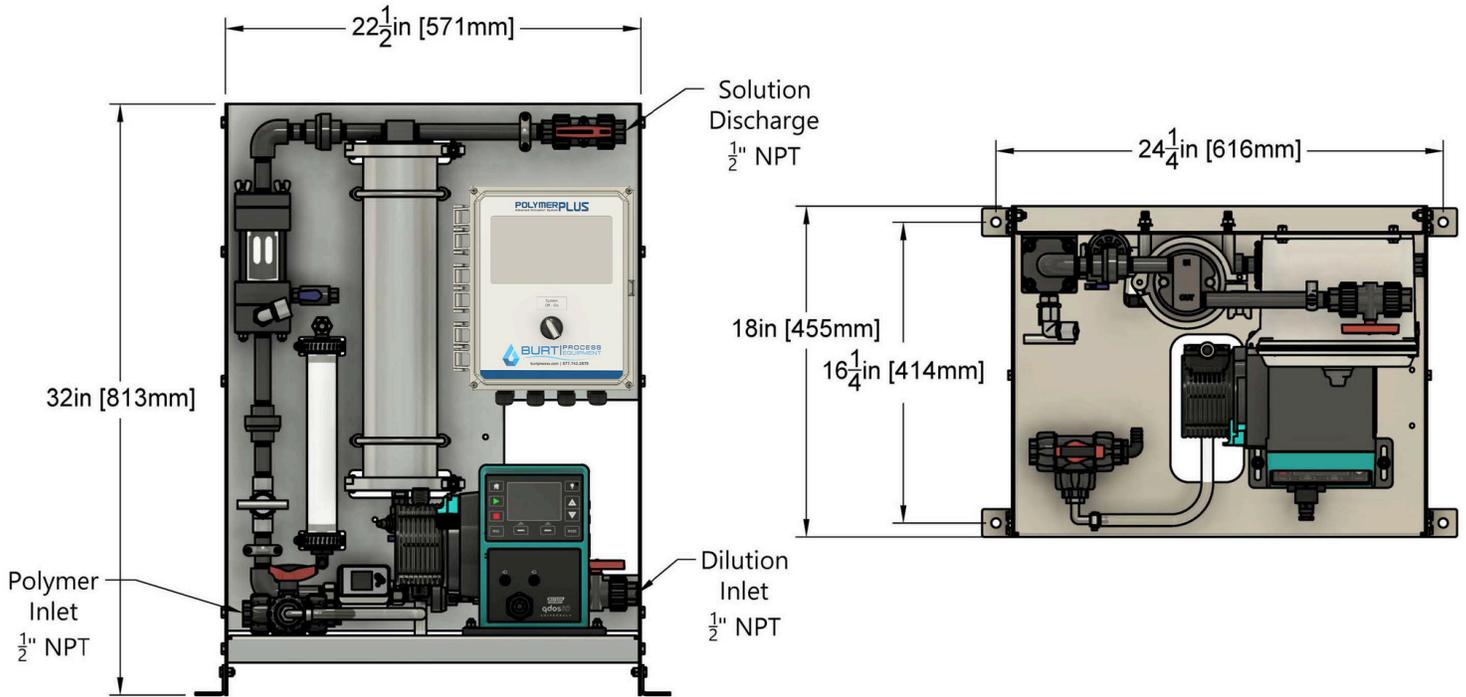
Pump Enclosure: Glass Filled PPE / PS



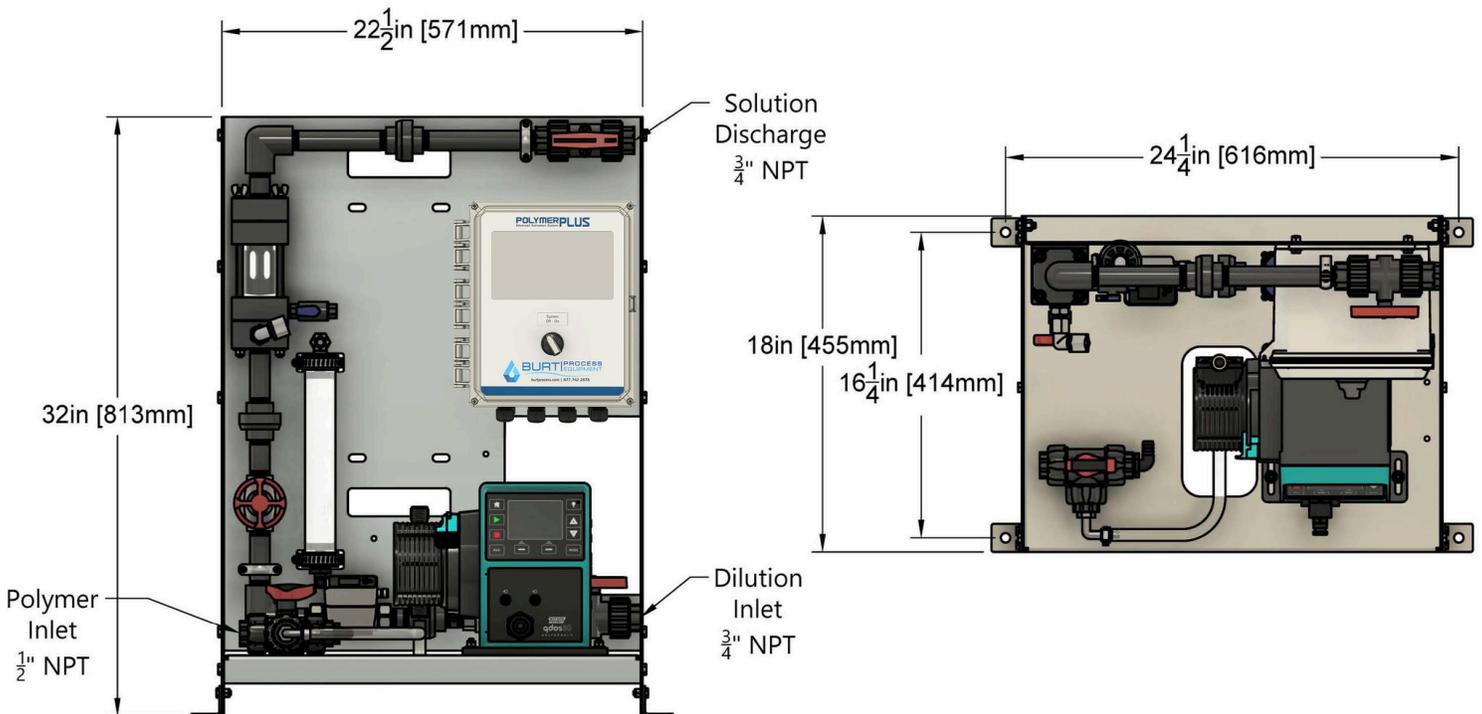
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6PSevo-400 System View:



6PSevo-1200 System View:





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