

# PolyPrep D-500

## Dry Polymer Preparation System



- 500 lbs of polymer per day at 1% solution
- Automatic Batch Preparation
- Automatic dosing to process with post dilution
- Clog Free wetting device
- Designed for harsh duty
- Minimal set up time
- Premium components
- Designed for easy support

The POLYPREP D-500 Polymer preparation system is a skid mounted pre-engineered equipment package designed to wet and activate powdered polyelectrolyte for use in liquid-solid separation applications.

The POLYPREP D-500 series is a turnkey system designed to meet the budgets of small polymer preparation applications without sacrificing performance or automatic operation. The D500 system is the first all inclusive preparation and dosing package tailored to meet the needs of economical and reliable make up of polymer without large capital expense.

The system operates from a two-line LCD interface in manual mode allowing any function of the feeder to be activated. pump.

In automatic mode the system prepares solution in the upper mixing tank and discharges the mixed solution to a lower reservoir where a metering pump draws solution and pumps to the customer's process.

This system can easily be integrated into a plant by sending a remote signal to the system for operation of the metering pump.

The system can also be fitted to operate in batch mode. In batch mode the system is automatically started by level probes to keep a storage tank full of activated solution at all times.

The D-500 model provides a complete package for the preparation and dosing of dry polymers. Based on operating twelve hours a day 90% of the time the feeder will consume 8.86 Kg (20.83 lbs) per hour. The system's metering pump will dose solution at a rate of 19.00 liters per minute (5 GPM) of primary solution that is then diluted to a concentration between 0.1% - 1.0%.

The system can be optioned to operate as a remote unit with a gasoline fueled generator and air compressor option package allowing for use where electricity and air is unavailable.

### OUR STRENGTHS

Chemical Dosing  
Integrated Controls  
System Design  
Systems Integration  
Application Knowledge  
Quality Engineering  
Nimble Flexibility  
Customer Service  
Field Service

### WE DELIVER

Custom Systems  
Standard Systems  
Metering Pumps  
Controls  
Instrumentation  
Accessories

### MARKETS SERVED

Municipal  
Industrial  
Commercial

### APPLICATIONS

Cooling  
Boiler  
Process  
Potable  
Waste Water

1450 W. Fullerton Avenue  
Addison, Illinois 60101

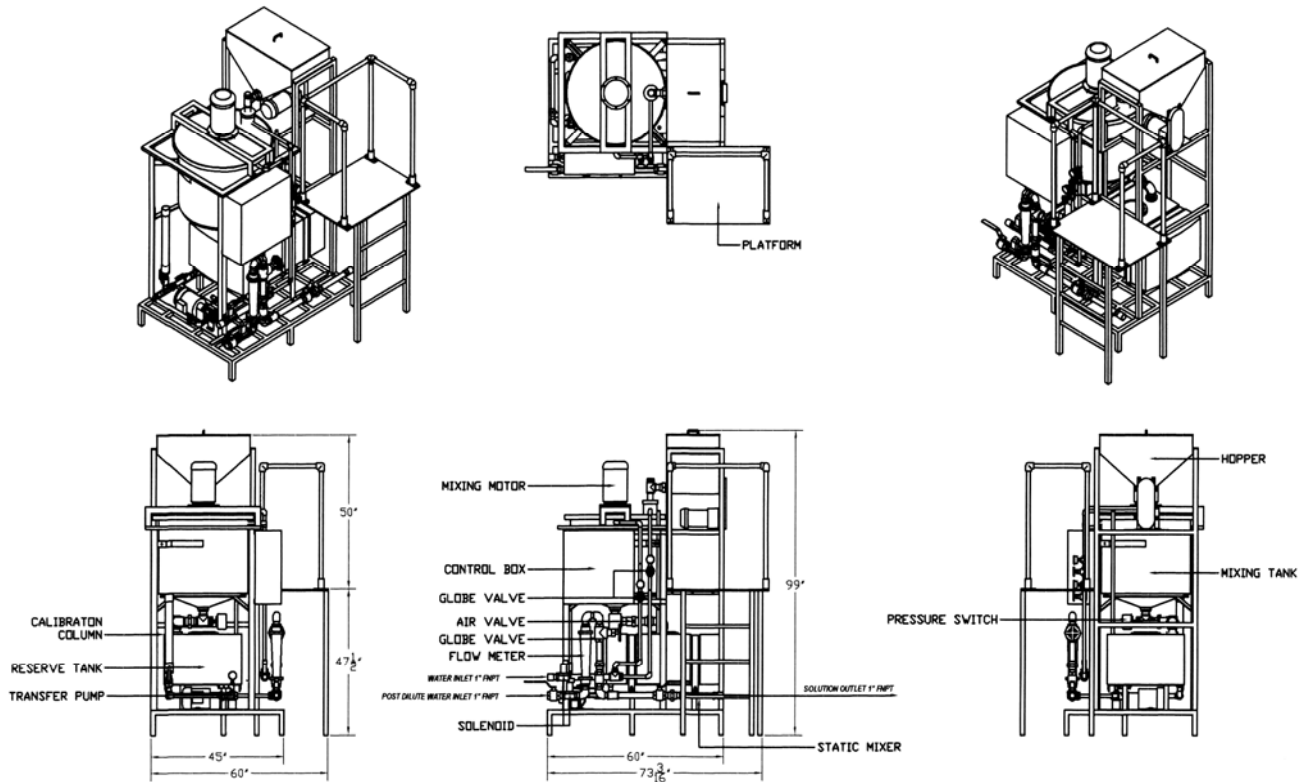
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[www.chemflow.com](http://www.chemflow.com)

Give us a call to build up the right system at the right price and get it right away!



## GENERAL ARRANGEMENT



## General Specifications

- **Construction** – 304 S.S.
- **Enclosure** – Nema 4X
- **Electrical** – 440 Volts AC, 3 Phase, 40 Amps, 60 Hz
- **Wetted Materials** – S.S., PVC, Polypropylene
- **Water Supply** – 40 GPM, 50 PSI
- **Connections** – S.S. threaded coupling
- **Dimensions** – 99H x 74W x 60D
- **Discharge Pressure** – 225 PSI max
- **Hopper Capacity** – 150 lbs
- **Mix Tank Capacity** – 65 gallons
- **Storage Tank Capacity** – 75 gallons
- **Dose Pump flow rate** – 5 GPM
- **Dilution Flow Rate** – 0-55 GPM

