

SureBlend[®] System

Automatic Polymer Systems



Features

The high efficiency of polymer activation achieved by SureBlend® systems will guarantee to reduce your polymer consumption.

DAF Plants

Clarifiers

Sludge Thickening

Sludge Dewatering

Belt Presses

Centrifuges

Flotation

Metal Flocculation

Lamella Separators

Filter Presses



Uncompromised quality and performance, designed and built in Australia.

Liquid or Powder

The Eimco Water Technologies SureBlend system is designed for use with all kinds of polymers including liquid, emulsion and powder versions of cationic, anionic and non ionic polymers with any molecular weight. All polymers can be blended with accuracy to optimise flocculation performance and reduce dose rates.

Skid Mounted and Pretested

All SureBlend systems are fully skid mounted, assembled and tested with polymer under Eimco Water Technologies' strict QA procedures prior to despatch. Once delivered the system can be put into action within hours. Simply connect power to the switchboard, mains water and connect the dosing pumps to the desired location and the system is ready to go.

Automation

All SureBlend systems are fully automated. Operation is very simple and involves selecting the desired concentration and dose rate and the rest will take care of itself. The system is designed to operate for many weeks unattended.

Options

There are a variety of options available with the SureBlend system including, multiple dosing pumps, air purge, calibration cylinders, upgrades to 316 stainless steel construction, vacuum units for powder transfer and more. We are specialists in custom designed units to suit any application.

Polymer Mechanics

As a neat product, polymer is a long chain molecule manufactured in a variety of liquid and powdered forms. Cationic, anionic and non-ionic versions are all available. In the neat condition the polymer is tightly coiled and has an extended shelf life.

All polymers require dilution and activation prior to use. Typically dilutions ratios range from 0.05 to 0.5%. Once diluted the shelf life of a polymer is reduced.

Of the thousands of commercially available polymers available, there are many combinations of blending and aging properties required to optimise the performance.

When insufficient mixing energy is applied, polymer gelling or agglomeration occurs, resulting in the charge sites not being fully exposed. In such cases, overdosing of polymer is required to achieve desired performance. On the other hand, over exposing polymer to mixing energy after initial activation will damage the fragile long chain molecule.

SureBlend polymer blending systems are designed to gently and thoroughly activate polymer. The Eimco Water Technologies SureBlend system is designed to optimise this activation process for any type of polymer by a simple process of programming the correct parameters on the PLC.

- The Eimco Water Technologies SureBlend system is unmatched in quality and performance.
- SureBlend systems have been successfully installed in many countries worldwide.
- Capacities ranging from 1Kg/hr to 12Kg/hr fabricated as pre-assembled, pre-tested units.
- Experience in all industrial sectors including food, metals, paper, petrochemical.

Capacities and Sizes*

Model	Type	Capacity
FSH1000	Liquid	1L/hr
FSH2000	Liquid	2L/hr
PBL2000	Liquid	2L/hr
PBL4000	Liquid	4L/hr
PBT1000	Powder	1Kg/hr
PBT2000	Powder	2Kg/hr
TOM3000	Powder	3Kg/hr
TOM4000	Powder	4Kg/hr
TOM5000	Powder	5Kg/hr
TOM6000	Powder	6Kg/hr
TOM8500	Powder	8.5Kg/hr
TOM12000	Powder	12Kg/hr

*Dimensions and capacities are only a guide and are subject to change. Please confirm with your local Eimco Water Technologies representative prior to using the above.

Applications

If you operate equipment included in the list, it is likely that you will be using one or more types of polymers at your site.

Whether you are using polymer for wastewater treatment processes, sludge dewatering and thickening, or within your manufacturing facility, Eimco Water Technologies' wealth of experience in polymer blending will ensure your system is set up prior to despatch to make the most out of your polymer.

Eimco Water Technologies SureBlend systems are designed

and engineered for reliability. The unique method of mixing and blending the polymer ensures optimum polymer activation. Constructed in stainless steel using high quality components and instrumentation, the SureBlend is built to last.

Our SureBlend systems are engineered to comply with the strictest of occupational health and safety requirements.

SureBlend systems are offered as complete skid mounted units that include dosing pumps, wiring,

pipework and control system. The control panel and wiring fully complies to AS3000.

Our SureBlend systems are fully assembled and tested prior to despatch.

The flexibility of operation and in the settings of the program, along with the many options available, will ensure that every SureBlend system will guarantee 100% efficiency and reduce your polymer consumption.



Most treatment plants supplied by Eimco Water Technologies require the use of polymer. It is by experience in the commissioning of treatment plants and sludge dewatering systems that we fully understand and have refined the art of polymer blending.