

Liquid Polymer Makedown Systems

Reduce Costs | Ensure Consistent Output | Reduce Tank Size

Hit Your Process Targets With Less Polymer, At Lower Cost

ProFlow's Liquid Polymer Makedown System is rugged and corrosion-resistant, combining the latest PLCs and equipment to ensure efficiency and cost savings. Our makedown units make down liquid polymer to a specific concentration and send it to a tank to be ready when needed. This proven system has a 30-year history of performance in the field, backed by dozens of successful installations. Applications include:

Paper Production

Polymers are added to the papermaking process to improve characteristics of the end product. ProFlow's Makedown units can process higher polymer concentrations so storage tank size can be reduced.

Industrial Waste Treatment & Mining

In industrial waste treatment and mining, the Makedown system efficiently makes down and feeds the polymer to achieve a consistent, high-performing flocculent.

A durable, plug-and-play, skid-based system that enables industrial and mining facilities to manage liquid polymer makedown

ProFlow's Liquid Polymer Makedown Systems are designed with superior mixing technology that delivers specified dilutions at up to 50% higher viscosities than other competitive systems. The ProFlow Liquid Makedown System makes down liquid polymer to a precise concentration and delivers it to a tank at a rate of up to 80 gallons per minute. By incorporating polymer filters, the system catches any debris that might be present in the liquid before it is passed into the process.

Making down the product to a higher concentration makes it possible to reduce the required tank size. Adding additional water at a later stage will allow the liquid to achieve the desired process concentration. The entire process is highly precise and extremely efficient.



Benefits

Uniform, Consistent Product — Separate monitoring of water and polymer feed flow ensures consistent output or automatic alarm and shutdown when required. A feedwater buffer tank maintains the specified polymer concentration regardless of incoming water pressure changes and surges. The feed tank level sensors control the unit to facilitate unmanned operation.

Cleanliness and Efficiency — The automated flush cycle removes dilute polymer from the unit at the end of each cycle to help prevent plugging.

Process Stability — The latest PLC technologies ensure tight control over all operating parameters during the makedown and across batch operations. A DCS interface capability allows central monitoring from the control room. With lower process variability, it's possible to achieve uniform, consistent quality and optimized application rates.

Versatile Design — Stainless steel, heavy-duty construction withstands harsh environments, while the compact design minimizes footprint and space requirements. A fused electrical disconnect and emergency stop on control panel provide added safety and protection.

Scalable — The ProFlow Liquid Makedown System is scalable to accommodate specific requirements, from 10 gpm to 80 gpm.

Options

- Tanks of all sizes, including ASME certified
- Level controls
- Programming, including communication to DCSs
- Transfer pumps for additional downstream applications
- Fast-fill valves that fill the mix tank faster to decrease batch time
- Fully outfitted metering skids as required
- Agitators



Service & Support

Every unit comes with a detailed manual that simplifies operation and maintenance. ProFlow offers start-up service, remote modem diagnostics, onboard help screens, and on-call, around-the-clock emergency service to ensure peak productivity.

Design Options

ProFlow Liquid Polymer Makedown Systems are available in a wide range of configurations and capacities to meet unique process requirements. Our models range from 10 gallons per minute (gpm) to as much as 80 gpm.

Controls and Programming

ProFlow Liquid Makedown Systems offer a wide range of control options, including PLC-based controls which can be integrated with the plant's DCS. Localized operations can be monitored and carried out at the operator interface terminal.

The ProFlow Difference

For more than 30 years, ProFlow has delivered turnkey engineered projects and modular fluid systems to process industries including chemical, biopharma, pulp & paper, and personal care, and ProFlow's products are now operating in over 30 countries worldwide. We have a proven record of managing complexity by assessing the requirements of our customers, and translating them into solutions that deliver long-term value. ProFlow's highly skilled engineers, fabricators, and technicians, based in Cromwell, CT, manage their work to conform to ISO9001:2015, and ProFlow has high-level fabrication certifications from ASME, NBBI, and UL.



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