



SINGLE-USE LAB SCALE MIXING SYSTEM



» EFFICIENCY REDEFINED –

Experience **precision mixing at its most effortless**. Our lab-scale modular, single-use mixer delivers **pure performance and scalability**, empowering researchers to move from **concept to discovery faster**. Designed for **efficiency, flexibility, and confidence**, it's the smarter way to mix in modern bioprocessing.





Single-Use Lab Scale Mixing System



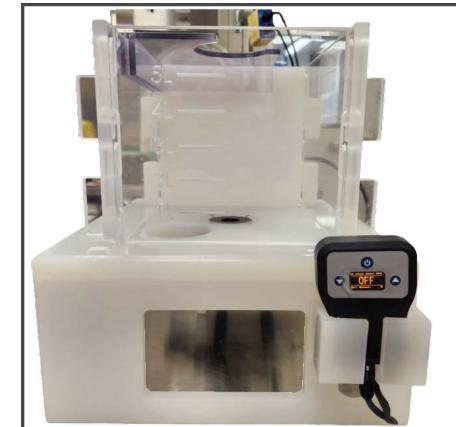
Introduction

OneSUM Single-use mixer employs a magnetically driven levitating impeller to enable robust blending, contact-free mixing of liquids, powders, and other materials critical for biopharmaceutical formulations. The bottom mount design allows for ultra low level mixing particularly during pump out/draw down. OneSUM single-use bags are configurable to suit each user's unique needs and come pre-sterilized, reducing contamination risks and ensuring process reliability.

Versatile Mixing Solutions

- Buffer Preparation – Mixing buffers for chromatography, filtration, or other downstream processes
- Media Preparation - Mixing powdered or liquid media to create culture media for cell growth and upstream processing
- Product Formulation – Blending drug substances with excipients for final formulation
- Hydration – Dissolving powders, such as salts, sugars, or other ingredients into liquids for bioprocessing
- Viral Inactivation – Controlled mixing for viral inactivation during downstream processing
- Vaccine Manufacturing – Preparing and blending adjuvants, antigens, or stabilizers for vaccine production
- Glycerol Mixing

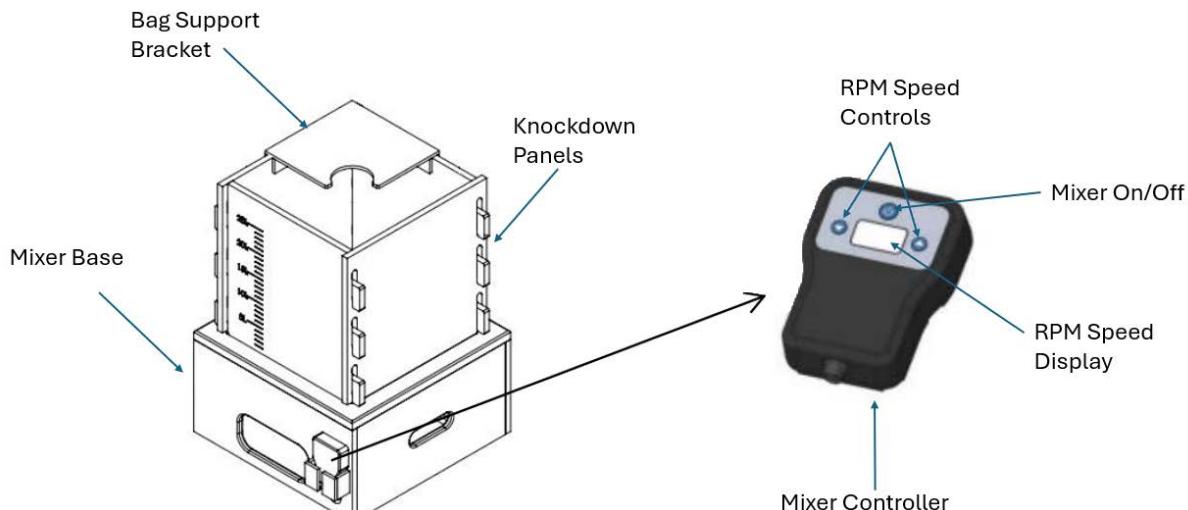
IMAGE COMING SOON



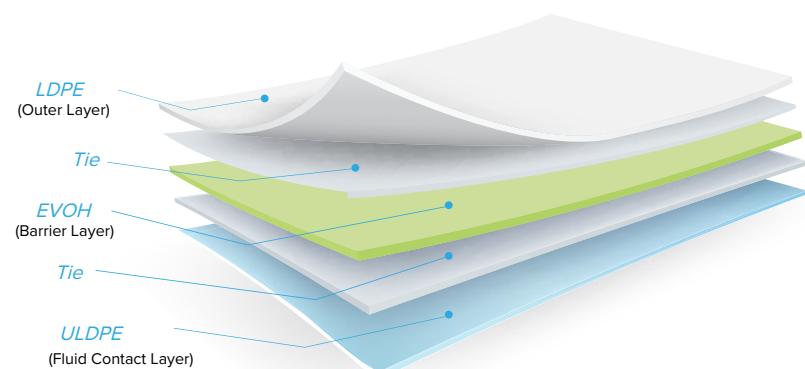
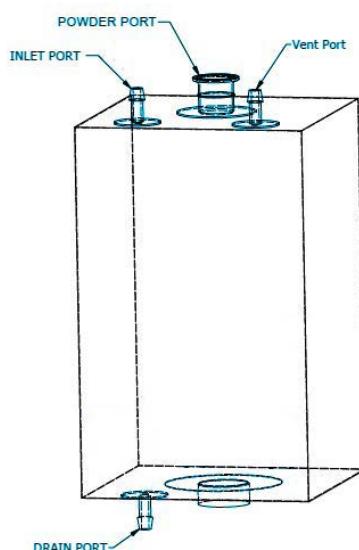
Advantages of OneSUM Mixer

- Elimination of Cleaning Requirements – Pre-sterilized disposable systems reduce the need for cleaning and validation, saving time and cost
- Minimized Cross-Contamination Risk – Single-use components ensure product integrity, especially in multi-product facilities
- Sustainability – Reduce water and energy consumption
- High Mixing Efficiency – Advanced technologies ensure homogeneity, even for challenging materials like powders or viscous solutions
- Scalability – Available in a wide range of volumes, enabling seamless scale-up from R&D to commercial production
- Process Flexibility – Easy to integrate into various biopharmaceutical processes
- Rapid Deployment – Reduced setup time compared to traditional stainless-steel mixers
- Cost Efficiency – Lower capital investment and operations costs compared to reusable systems

OneSUM Sensor, Meter, and Probe Configuration Options



Standard Bag Configuration



- **Customization** – Bags assembly designs are tailored to meet individual customer and process requirements
- **Single-Use Ecosystem** – OneSUM integrates seamlessly with other single-use technologies, such as OneSil and OneFlex tubing, filters, and bags, facilitating end-to-end single-use workflows

Multilayer Film Structure:

Purity One single-use bags are constructed of a 12.8 mil multilayer film optimized for bioprocess production applications. Film materials are consistent throughout the product range, and are free of materials of animal origin.



Standard OneSUM Technical Specifications

| 3D Single Use Mixer | | | | |
|--------------------------|------------------------|------------------------|-------------------------|-------------------------|
| | 5L | 10L | 25L | 50L |
| Powder Port | 3" TC | 3" TC | 3" TC | 3" TC |
| Inlet Port | 3/8" HB (x1) | 3/8" HB (x1) | 1/2" HB (x2) | 1/2" HB (x2) |
| Drain Port | 3/8" HB | 3/8" HB | 1/2" HB | 1/2" HB |
| Length (in) | 13.00 | 13.00 | 16.00 | 16.00 |
| Width (in) | 13.00 | 13.00 | 16.00 | 16.00 |
| Height (in) | 14.75 | 17.75 | 21.75 | 32.75 |
| Max Volume (L) | 5L | 10L | 25L | 50L |
| Base Part Number | OneSUM-Lab-5L-10L-Base | OneSUM-Lab-5L-10L-Base | OneSUM-Lab-25L-50L-Base | OneSUM-Lab-25L-50L-Base |
| Panel Part Number | OneSUM-Lab-5L-Panel | OneSUM-Lab-10L-Panel | OneSUM-Lab-25L-Panel | OneSUM-Lab-50L-Panel |

Contact Us



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Purity One™ manufactures single-use and custom hose solutions that are critical to improving quality of life and overall wellness for people around the world. With our combined technical expertise and cleanroom assembly capabilities, we focus on providing a level of service and quality-assurance that is unparalleled in the global life sciences, biopharmaceutical and pharmaceutical industries.

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