



Esco® — Safer Workstation for USP 797, USP 800, and 503B Pharma Compounding

Improve product sterility and patient safety with our standard ULPA Filter that creates an ISO Class 3 compounding area, that is 100 times cleaner than ISO Class 5 found on other biosafety cabinets, laminar flow cabinets, and isolators with regular HEPA filter.

President & CEO: XQ Lin

Founded: 1978

Employees: 1,400+

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Company Background

Esco Group is a renowned life science company with a diversified portfolio and sales in over 100 countries. As a world leading manufacturer of laboratory and biopharma equipment, and IVF medical devices, Esco offers tailored solutions that fit the needs of laboratories.

With three divisions, namely, life sciences, medical, and healthcare, Esco contributes to meet the challenges of the 21st century by continuously innovating our products to support cutting-edge research, helping biopharmaceutical companies make their drugs safer and more cost-effective, enabling lower cost manufacturing of vaccines, and directly through innovative medical devices and diagnostics.

Product Overview

We design and manufacture cutting edge primary and secondary engineering control for small to large scale pharmaceutical facilities, such as:

- **USP 797 Workstation:** Laminar Flow Cabinets
- **USP 800 Workstation:** Biosafety Cabinets
- **FDA 503B Workstation:** cGMP Isolators
- **Customized Workstation:** Contact Us for Your Needs
- **Clean Room Components:** Pass Boxes, Air Showers
- **Bulk Containment Room:** Downflow Booths, Large BSCs
- **Cell Growing:** Bioreactors (Small to Large), Cell Harvesters

Biosafety Cabinets for USP 800 Compounding

Esco is the world's largest manufacturer of biosafety cabinets with advanced key features:

1. **The most energy efficient BSC in the market.** Consumes only 200 Watts (four-foot unit) using latest generation, U.S.-made, single DC-ECM Blower. Helps LEED certification.
2. **Best filtration.** Using ULPA filter that's 10 times more efficient than HEPA, giving ISO Class 3 work zone and 10 times safer exhaust, at the same 10-year filter life and same cost.
3. **Large performance envelope.** Provides wide margin of operator and product protection in the event of imbalanced loading of exhaust and downflow filters.

4. **Anti-microbial coating.** Silver ions kill the contaminants that last through the lifetime of the cabinet. Reduces bio-burden, product, and lab contamination.
5. **Durable metal plenum.** Resist puncture and leak, unlike BSCs with plastic bag plenum. Coupled with anti-microbial coating to reduce bioburden inside BSC.
6. **Double layer side wall with negative pressure.** Prevents hazardous pathogens from escaping into lab, by pulling them into plenum and be captured by filters.
7. **Raised Arm Rest.** Provides comfortable place to put arms, and prevent hazardous grille blocking by operator arms. Made from durable stainless steel to resist wear.
8. **Easy to clean.** Single piece interior wall with large corner radius, and angled drain pan, for easy cleaning. Polished seams and accessible drain corners for easy wiping.
9. **Centered, angled down controller.** Enables the user to easily see and operate the controller from stationary sitting position, including from wheelchairs.
10. **Lowest height.** At only 55" tall, our compact Airstream AC2 BSC has the lowest height in the market, enabling the user to work while sitting or standing even inside clean rooms with low height.

Laminar Flow Cabinets for USP 797 Compounding

Esco is also one of the world's largest manufacturers for laminar flow cabinets, with advanced key features:

1. **The most energy efficient LFC in the market.** Consumes only 155 Watts (four-foot unit) that comes standard with latest generation, DC-ECM blower.
2. **Best filtration.** Using ULPA filter that's 10 times more efficient than HEPA, giving ISO Class 3 work zone required for electronics industry at the same eight-year filter life and cost.
3. **Stable airflow.** The combination of DC-ECM blower and digital speed control maintains stable airflow and protection, despite input voltage fluctuation.
4. **Anti-microbial coating.** With silver ions to kill the contaminants that last through the lifetime of the cabinet. Reduces product and lab contamination.
5. **Low noise.** Designed to create the quietest laminar flow clean bench in the market with 55 dBA noise (four-foot unit) at industry standard 90 fpm filter velocity.
6. **Automatic airflow compensation.** The blower control system automatically compensates >3 times filter loading without manual speed control adjustment.
7. **Centered, angled down controller.** Enables the user to easily see and operate the controller from stationary sitting position, including from wheelchairs.