Enviralab®
Sterility Module

A self-contained clean work station with unique laminar airflow pattern.

The Envirco Enviralab® Sterility Module (ESM) is a positive pressure† laminar flow clean bench that is completely self-contained. It provides an ISO Class 5* (Class 100) environment within the work area that complies with the latest IEST Recommended Practices.

The ESM has a modular design with a unique airflow pattern that provides the non-aspirating action of vertical flow, while retaining the positive work protection of horizontal flow. Air from within the cabinet is returned to the room through the front access opening.

STANDARD FEATURES

• An ISO Class 5* environment utilizing an aerosol challenged high efficiency particulate air (HEPA) filter
• Exclusive airflow design with an all stainless steel interior construction
• Three standard sizes with 26 in. (660.4 mm) deep work areas
• Fluorescent lighting fixture provides 100 foot candles (1076 Lux) at the work surface
• Shielded ultraviolet (UV-C) lamp enhances sterilization of the work surface when the cabinet is not in use
• Stainless steel I.V. rod
• Covered duplex electrical outlet, 115V, 15 Amp installed on right rear wall
• Color-keyed airflow meter
• A welded steel cabinet with exterior finished in corrosion resistant polyurethane enamel
• Perforated aluminum diffuser screen protects the HEPA filter and maintains uniform airflow velocity within the work area
• Quiet operation (65 dBA ± 3 measured 30 in. (762 mm) from the filter face)
• Optional, matching support stand serves as a base for the ESM Module to provide a console-type work station
• CSA approved

SPECIFICATIONS

Filters
Aluminum framed High Efficiency Particulate Air (HEPA) filter, with a minimum efficiency of 99.99% at 0.3 micron, aerosol challenged (zero probed).

Prefilters
Disposable - 30% ASHRAE.

Airflow
90 FPM (.45 m/s) ±10 FPM (.05 m/s) average velocity measured 6 in. (152.4 mm) from the diffuser screen. Uniformity ±20% of average or better.

* Note: Provides product protection only. Does not protect personnel or the environment from aerosols generated within the work area.

†Note: Positive pressure laminar flow clean benches provide product protection only. Does not protect personnel or the environment from aerosols generated within the work area.

*As defined by the latest ISO 14644 and IEST Recommended Practices, where particle count does not exceed 3520 particles, 0.5 µm or larger, per cubic meter of air.
LAMINAR FLOW CLEAN BENCH
Enviralab® Sterility Module

Motor/Blower Assembly
Direct drive, continuous duty 1/4 Hp (.19 kW) (ESM-3), 1/3 Hp (.25 kW) (ESM-4) or 1/2 Hp (.37 kW) (ESM-6) with sealed-for-life bearings and inherent overload protection. Motor/blower assembly is electronically balanced (dynamically) and mounted on vibration dampening rubber mounts. Motor/blower assembly is designed to provide rated airflow through a 50% increase in initial static pressure.

Speed Controller
Solid state speed control with RFI suppression for adjusting airflow velocity.

Electrical
Standard 15 Amp, 115V, single phase, 60 Hz, rubber covered cord with 3-prong grounded plug.
Covered duplex electrical outlet installed on right rear wall.
Fluorescent lighting fixture provides 100 foot candles at the work surface.
Shielded UV light fixture.
Separate blower and light switches.

Warranty
Limited one year.

Construction
Welded steel cabinet with exterior finished in corrosion resistant polyurethane enamel.
All stainless steel work area.

Applications
• Critical Sample Preparation
• Hyperalimentation
• I.V. Admixtures
• Media Preparation
• Microscopy Analysis
• Pharmaceutical Preparation
• Syringe Filling
• Tissue Culture

Options
• Additional Duplex Electrical Outlet, Part No. 10652
• Lab Service (right rear wall installed), Part No. 10190
• Matching Support Stand, Part No. 10761 (3-ft) (.9144 m), 10170 (4-ft) (1.2192 m), 10316 (6 ft) (1.8288 m)
• 220 V, 50 Hz unit transformer

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Specifications are subject to change without notice and without incurring liability for modifications to equipment previously sold.

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