

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

[†]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 μ m or larger, per cubic meter of air.



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

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





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

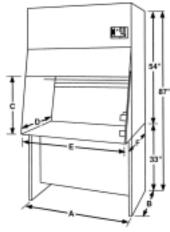
Options

- 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





Enviralab's unique, positive pressure, laminar airflow pattern sweeps around obstructions, minimizing reverse turbulence while maximizing cleansing within the critical work area.



Shown with optional matching support stand.

Part No.		10758	10166	10315
Model No.		ESM-3	ESM-4	ESM-6
Dimensions inches (millimeter)	А	35.00 (889)	47.00 (1193.8)	70.00 (1778)
	В	24.25 (615.95)	24.25 (615.95)	24.25 (615.95)
	С	28.00 (711.2)	28.00 (711.2)	28.00 (711.2)
	D	26.13 (663.7)	26.13 (663.7)	26.13 (663.7)
	Е	33.50 (850.9)	44.50 (1130.3)	67.50 (1714.5)
	F	32.25 (819.15)	32.25 (819.15)	32.25 (819.15)
No. of Blowers		1	1	1
BTU / Hour		1000	1200	1600
Ave. CFM @ 90 FPM (m³/hr @ .45 m/s)		540 (918)	720 (1224)	1080 (1836)
Power Requirements Amps @ 115 V / 60 Hz		6.0	8.0	10.0
Ship Weight, lbs. (kilograms)		265 (120.2)	370 (167.8)	510 (231.3)

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AND WITHOUT INCURRING LIABILITY FOR MODIFICATIONS TO EQUIPMENT PREVIOUSLY SOLD.

ENVIRCO Innovators in clean air technology

Envirce

5601 Balloon Fiesta Parkway NE Albuquerque, New Mexico 87113

Tel: 505.345.3561 Fax: 505.345.8875

European Sales

Reith Way West Portway Industrial Estate Andover, Hampshire, SP10 3TY, UK Tel: +44 (0) 1264 364622 Fax: +44 (0) 1264 350983

Asian Sales

www.envirco.com

128 Joo Seng Road #05-01 DP Computers Building Singapore 368 356 Tel: (65) 6286 0995 Fax: (65) 6286 0859

China Sales

No. 268 Xi Zang Road (M) Haungpu District Shanghai 200001 PRC

Tel: (86) 512 6258 7180 Fax: (86) 512 6258 0035

FEDDERS ENGINEERED PRODUCTS

Envirco and Enviralab are registered trademarks of Fedders Corporation. Specifications are subject to change without notice and without incurring liability for modifications to equipment previously sold. Fedders is a registered trademark of Fedders North America, Inc.