



*Streamline Lab's Horizontal Laminar Flow Cabinets offer a proven level of product protection at an economical cost without compromising performance. Our horizontal laminar flow models feature many key innovations which lead to a superior product performance : mini-pleat separatorless HEPA filter technology, the best product protection in the world, superior filter mechanical construction aspects and mounting methods.*

- Streamline Lab's Horizontal Laminar Flow Cabinet, due to its new, unique blower design, is **more compact** than most other horizontal laminar flow cabinets manufactured by major manufacturers in the market today.
- **HEPA filter with a typical efficiency of 99.9998% at 0.3 and 0.12 microns.** Single piece moulded-in-place gasket prevents leaks typical with conventional multi-piece gasket designs. Aluminium frame is more durable and sheds no particles compared to the conventional wooden frames. Integrated metal guards on both sides of the filter protect it from mechanical damage. A spill lip at the back of the work zone prevents liquids from contaminating the filter.
- **Washable polyurethane pre-filter** extends life of main HEPA filter. Easily cleanable with water, compressed air, or vacuum - needs no replacement over the operating life of cabinet, therefore lowering maintenance costs.
- **Reinforced stainless steel work surface** is scratch-proof, chemically resistant, and easily cleanable with a variety of sterilizing agents. **Rounded edge** of the work surface in front ensures maximum comfort for the operator's arms during usage. All joints of the work area are permanently sealed at the factory to prevent ingress of contaminants.
- **Permanently lubricated** (maintenance free) **centrifugal blower.** Low noise and vibration. Assembly is vibration damped for increased operator comfort.
- **Electronic blower monitor with LED display** mounted on the front panel acts as an indicator to the blower performance and fan speed. (Blower speed controller is located inside electrical panel).

- **Transparent UV-tempered glass side walls** and white non-reflective powder-coated back wall. Glass sides provide maximum visibility into the work zone, optimizing operator comfort. Main body of the cabinet has a textured powder-coated finish that has higher resistance to routine wear than glossy finishes.

- Staggered service fixture (optional) penetrations on side walls allow for better access for the operator than standard level provisions (see engineering diagram on page 2 for illustration)

- **Reliable industry standard switches** operate the blower, fluorescent lights and the optional UV lamp. To prevent accidental personnel exposure to UV radiation, the UV and normal light controls are integrated onto a *3-way switch* to prevent both from being activated at the same time. The light and the blower can be operated independently for example during cleaning of the cabinet.



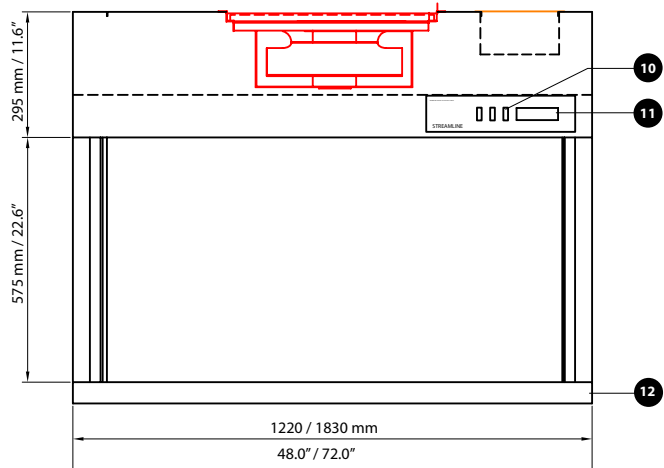
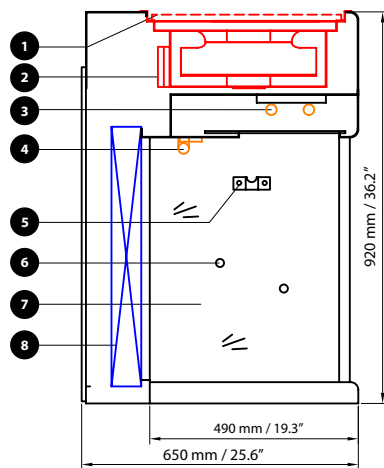
Control Panel with a 3-way switch for UV and fluorescent light

- **T8 industry standard fluorescent twin lighting** is employed. The industry standard length tubes can be replaced easily.
- Standard universal electrical socket outlets (2 no's) are provided in cabinet workzone.
- Lifetime warranty for main body. 12-month warranty for blower and electrical systems. Consumables such as light fixtures, pre-filters and HEPA filters are warrantied for 6 months.

#### Optional Accessories

- **253.7nm germicidal ultraviolet lamp** (UV lamp size: 1.5' / 45.7 cm) : mounts in cabinet internal work zone ceiling. **NB:** the UV lamp is not a substitute for surface decontamination / protect eyes and skin when using.
- **UV-resistant front cover:** polycarbonate front cover for use during decontamination procedures using germicidal UV lamp.
- **Service fixtures:** European and American style fixtures are available.
- **Support stand:** Height: 28" / 711mm (seated operator) with castor wheels and steel metal back panel

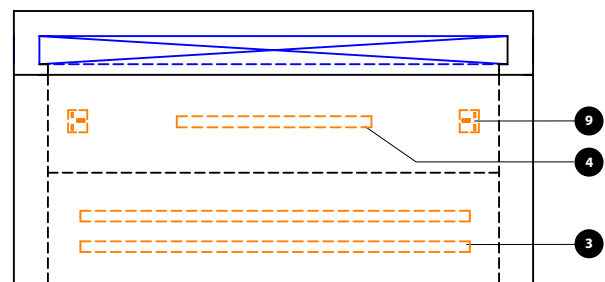
\*Streamline Lab's optional accessories can be fitted on the cabinets onsite after purchase.



**Engineering Details**

- 1. Washable Pre-filter
- 2. Blower
- 3. Fluorescent Light
- 4. UV Light\* Provision
- 5. IV Bar\* Provision
- 6. Service Fixture\* Provisions (2 holes on each side)
- 7. Side Tempered Glass Panel
- 8. HEPA Filter
- 9. Standard Universal Electrical Outlets (2 pcs)
- 10. Operating Switches
- 11. Electronic Blower Monitor
- 12. Stainless Steel Work table

*\*optional items*



**Top Plan View**

General Specifications	SHC-4AX	SHC-6AX
External Dimensions (Width x Depth x Height)	1220 x 650 x 920 mm / 48.0" x 25.6" x 36.2"	1830 x 650 x 920 mm / 72.0" x 25.6" x 36.2"
Internal Work Zone (Width x Depth x Height)	1120 x 490 x 575 mm / 44.1" x 19.3" x 22.6"	1730 x 490 x 575 mm / 68.1" x 19.3" x 22.6"
Air Volume (At Initial Velocity)	811 cmh / 477 cfm	1253 cmh / 729 cfm
Laminar Airflow Velocity	Initial setpoint: average of 0.3 m/s or 60 fpm measured 150mm / 6" from filter face for 38 air changes / minute in work zone	
Air Cleanliness Within Working Area	ISO 14644.1 Class 4, US Federal Standard 209E Class 10 / 2.5, AS 1386 Class 2.5, JIS B9920 Class 4, BS5295 Class D, Class M100,000 as per KS 27030.1 and other equivalent cleanliness classifications of the VDI 2083 and AFNOR X44101	
Main Filter Type	H13 HEPA filter with integral metal guards and filter frame gaskets on both sides; fully compliant with EN 1822 and IEST-RP-CC001.3 requirements; Typical efficiency: 99.9998% at 0.3 microns / 99.9998% at 0.12 microns / 99.99979% at MPPS	
Pre-Filter	Washable non-woven polyurethane fibers with an efficiency of 20%;	
Noise Level	< 67 dBA at initial blower speed setting measured at typical operator work position	
Light Intensity	>800 lux / >75 foot candles at work surface level	
Main Body Construction	Electro-galvanised steel with white oven-baked epoxy powder-coated finish	
Power Supply Options	Choose from the following options and specify option number (e.g. SHC-4A <b>1</b> ) when ordering <b>1.</b> 220-240VAC 50HZ, 1 phase <b>2.</b> 110-130VAC 60HZ, 1 phase <b>3.</b> 220-240VAC 60HZ, 1 phase <b>4.</b> 110-130VAC 50HZ, 1 phase <b>5.</b> 100-110VAC 50HZ / 60HZ	
Power Rating	230W (230 VAC 50HZ units) / 348W (115 VAC 60HZ units)	380W (230 VAC 50HZ units) / 380W (115 VAC 60HZ units)
Net Weight	108 kgs / 238 lbs	170 kgs / 375 lbs
Max Shipping Weight	135 kgs / 298 lbs	220 kgs / 485 lbs
Shipping Dimensions	1330 x 810 x 1070 mm / 52.3" x 31.9" x 42.1"	1940 x 810 x 1070 mm / 76.4" x 31.9" x 42.1"
Shipping Volume	1.15 cbm / 40.6 cbf	1.68 cbm / 59.3 cbf

**NOTE:** Laminar flow cabinets are to be used only for product protection from airborne contamination and do not offer protection for the operator or the environment from aerosol contamination generated by the samples placed within the cabinet. No materials hazardous to humans should be used inside the cabinet. For this purpose, a biohazard safety cabinet is required.

**Streamline Laboratory Products**

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