

## ESCO Streamline® Ductless Fume Cabinets

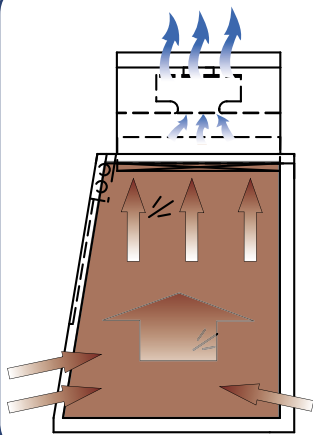


A low-cost offering equipped with engineering features previously found only on high-end ductless fume cabinet products ...

Today, the **Esco Streamline® Ductless Fume Cabinet** is probably the most advanced in the world, from a design and engineering point of view, of any low-cost ductless fume cabinet. Now users can enjoy, at an economical cost, the benefits of features previously found only on high-end ductless fume cabinets - including sophisticated electronic airflow alarms, a unique filter mounting system that eliminates bypass leaks inherent in conventional clamping systems, a generously-sized main filter with higher chemical retention capacities.

Unlike similar products offered by the competition, our blower system is also oversized to deliver **higher airflow volumes, at lower operating points**. With the blower system running at less than maximum capacity, longer operating lifetimes and lower noise levels are achieved. The **motorised impeller design** of our blower system also ensures **better airflow uniformity** and distribution within the cabinet for **better operator protection**. Another key advantage of these models is their low energy consumption, due to Esco's employment of exclusive external rotor technologies.

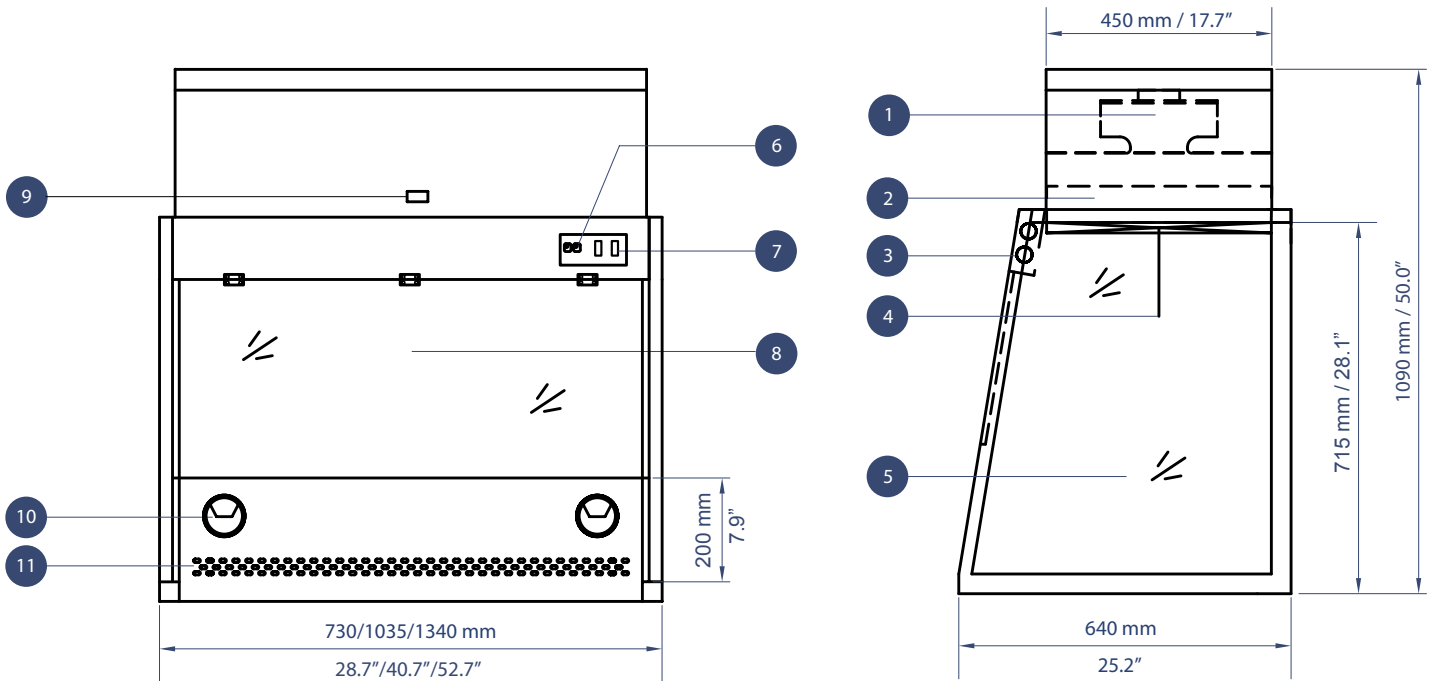
### Cabinet Airflow Profile



- An inflow air curtain from the ambient environment into the cabinet with an average velocity of 0.5 m/s or 100 fpm is induced by the cabinet blower system
- The inflow flushes the entire work zone of the cabinet; within the main chamber of the cabinet, negative pressure (relative to the ambient environment) is maintained in order to ensure that no chemical fumes or vapours escape the work zone
- Air is taken through an activated carbon filter mounted in the interior; this removes all fumes from the exhaust air stream; exhaust air is recirculated directly back to the room from the top of the cabinet

- Unique modular design **eliminates the need for local assembly** while reducing shipping costs; convenient maintenance features include a filter design which allows replacement in minutes and quick-snap wire connectors for easy setup
- Industrial-grade main body constructed of electrogalvanised steel: with an abrasion-resistant white oven-baked powder-coated finish
- All components designed for maximum chemical resistance for long service life and durability
- **10-degree sloped front and large 200mm / 7.9" access opening** allows easy access to work zone - enhancing ergonomics, eliminating operator fatigue and increasing productivity
- Permanently lubricated direct drive centrifugal blower(s); **energy efficient external rotor motor** type design reduces operating costs; extremely low noise and vibration levels (less than 53dBA at working position) due to proprietary construction and mounting technology
- Built-in solid state variable speed controller(s) (infinitely adjustable from zero to the maximum setting) with built-in RFI and noise filters is superior to conventional "step" controllers
- Standard cabinet control system consists of separate switches / indicator lights for blower, lights; built-in **electronic audible / visual alarms** for airflow and front window position deliver enhanced operator safety
- Integral fluorescent lighting is mounted out of the air stream for better airflow uniformity; in addition, the aerodynamic design of the enclosure ensures maximum containment possible
- High-quality prefilter (replaceable from within work zone) and activated carbon filter (7 different filter types available depending on the requirements of your application)
- Industry-exclusive **AutoPurge™ air exhaust slots** at the backwall for enhanced operator safety
- Transparent perspex front window and sides provide a high degree of visibility and operator comfort; front window is mounted on self-supporting pre-tensioned hinges, allowing for easy access during cabinet loading and startup
- Built-in passthrough flaps (2ft model - 1 flap; 3ft and 4ft models - 2 flaps) at back of work zone for electrical, gas, nitrogen, vacuum etc. services
- Designed to meet the general safety requirements of the IEC 61010-1 / EN 61010-1 / UL 3101-1 / CSA C22.2 No. 1010.1-92
- Cabinet is shipped fully-assembled; simply plug the unit into a power source for operation - no local installation is required; unit is supplied with a 3-pin plug; 10 plug types are available (specify order code when ordering)

## ESCO Streamline® Ductless Fume Cabinets: Specifications



1. Blower
2. Activated Carbon Filter
3. Fluorescent Lamp
4. Pre-filter
5. Side Acrylic Panel
6. Airflow Alarm
7. Blower / Light Switches
8. Acrylic Hinged Window
9. Filter Code Display
10. Pass-through Flaps (2&3ft model - 1 flap; 4ft model - 2 flaps)
11. AutoPurge™ Slots

General Specifications	SDC-2AX	SDC-3AX	SDC-4AX
External Dimensions (Width x Depth x Height)	730 x 640 x 1090 mm 28.7" x 25.2" x 50.0"	1035 x 640 x 1090 mm 40.7" x 25.2" x 50.0"	1340 x 640 x 1090 mm 50.4" x 25.2" x 50.0"
Internal Work Zone (Width x Depth x Height)	650 x 610 x 715 mm 25.6" x 24.0" x 28.1"	955 x 610 x 715 mm 37.6" x 24.0" x 28.1"	1260 x 640 x 715 mm 49.6" x 24.0" x 28.1"
Air Volume (At Initial Velocity)	234 cmh / 138 cfm	344 cmh / 202 cfm	454 cmh / 267 cfm
Inflow Velocity	Initial setpoint: average of 0.5 m/s or 100 fpm measured in plane of work aperture		
Standard Filtration Elements	Main filter: Activated carbon with 50mm / 2" granular media bed (7 different filter types available) Pre-filter: Washable non-woven polyester fibers with an efficiency of 20% against gross particulate matter		
Noise Level	61 dBA at initial blower speed setting measured at typical operator work position		
Light Intensity	>800 lux / >75 foot candles at work surface level		
Construction	Enclosure frame: Mild steel hollow sections with whiteoven-baked epoxy powder-coated finish Blower and filter module: Electro-galvanised steel with whiteoven-baked epoxy powder-coated finish Back panel: Electro-galvanised steel with white oven-baked epoxy powder-coated finish Front and sides: 5mm / 0.2" transparent perspex		
Power Supply	<b>Choose from the following power supply configuration codes when ordering (e.g. RHL-2A3, for 220-240VAC 60Hz)</b> 1: 220-240VAC 50HZ 2: 110-130VAC 60HZ 3: 220-240VAC 60HZ 4: 110-130VAC 50HZ 5: 100-110VAC 50HZ/60HZ		
Power Rating	185W (230VAC units) 230W (115VAC units)	225W (230VAC units) 270W (115VAC units)	225W (230VAC units) 270W (115VAC units)
Net Weight	70 kg / 154 lbs	84 kgs / 185 lbs	100 kg / 220 lbs
Max Shipping Weight	142 kg / 313 lbs	192 kgs / 427 lbs	242 kg / 534 lbs
Shipping Dimensions	870 x 1000 x 980 mm 35.4" x 38.2" x 54.7"	1200 x 1000 x 980 mm 47.2" x 38.2" x 54.7"	1480 x 1000 x 980 mm 59.1" x 38.2" x 54.7"
Shipping Volume	0.85 cbm / 30 cbf	1.18 cbm / 41.7 cbf	1.45 cbm / 51.2 cbf

## ESCO® Esco Biotechnology Equipment Division

Esco Biotech is a highly focused manufacturer of laminar flow, biohazard safety and other HEPA-filtered cabinets for the laboratory with a history of quality cabinets since 1978. We are highly oriented towards the international marketplace, with sales in more than 60 countries and 90% of turnover exported. Our products have been independently tested to standards such as AS1807.5 and EN12469. Products are manufactured under an ISO 9001 registered quality system.

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