



*Class II biohazard safety cabinets provide product, operator and environmental protection and are suitable for general microbiological work with agents assigned to biological safety levels I, II or III.*

*Based on our EN12469 type-tested Airstream® Class II Biosafety Cabinet, Escoc SC2 Class II Biosafety Cabinet provide optimum performance at an economical price.*

*The cabinet performance is continuously monitored and controlled by our user-friendly Sentinel™ microprocessor-based control system, allowing you, the user, a safe and reliable working environment.*

*Read on to find out more about Escoc's ergonomically designed SC2 biosafety cabinet.*

#### MAIN FILTRATION AGENTS

► **ISO Class 4 air cleanliness** within workzone as per ISO 14644.1 (equivalent to Class 10 as per the US Federal Standard 209E, **10 times cleaner** than the usual Class 100 classification on cabinets offered by the competition).

► **Minipleat separatorless HEPA filter technology**, operating at a typical efficiency of **99.99% at MPPS, 0.3 and 0.12 microns** provides better operator, product and environmental protection than conventional HEPA filters.

#### CONTROL FEATURES



► **Escoc Sentinel™ Microprocessor Cabinet Control System** allows the user to easily access all cabinet functions. The control system monitors and displays cabinet airflow constantly on the control LCD screen, prompting the user with audible and visual alarms in case of any unsafe condition.

► True airflow velocity (both for downflow and inflow velocity) sensing technology, with temperature compensation for improved sensor accuracy.

► Audible and visual alarms for low airflow, unsafe sash positions.

► Automatic warm-up cycle is enabled upon turning on the cabinet, ensuring all contaminants are purged from the cabinet workzone before the operator can use the cabinet. All menu functions are inactive during this period. Automatic post-purge cycle is also enabled at shutdown, ensuring all residue contaminants are purged out of the workzone before deactivation.

► Fail-safe system ensures that in case of airflow failure, the cabinet automatically shuts down to ensure safety to the user and the environment.

► An admin PIN can be set to restrict unauthorized access to all menu functions.

#### ERGONOMIC FEATURES

► **Tempered glass sliding front sash** is frameless for increased visibility and provides greater operator protection from harmful UV radiation.

► **Built-in 5000k fluorescent lighting** offers excellent illumination throughout the workzone in order to reduce operator fatigue and is comfortable to the eyes.

► **Sloped front design** allows for maximum visibility into the workzone.

#### CONSTRUCTION FEATURES

► Industrial-grade main body constructed of electrogalvanised steel: with an abrasion-resistant white oven-baked powder-coated finish. Attractive single-piece stainless steel work surface is easy to remove and clean.

► All components designed for maximum chemical resistance for long service life and durability. All cabinet components are cleanroom compatible.

► Permanently lubricated direct drive centrifugal blower(s); extremely low noise and vibration levels 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.

► **All light and UV provisions are located outside of the downflow air stream** to ensure optimum airflow uniformity.

► **A conveniently accessible paper-catch** is integrated in the air return area in order to prevent wipes and small items from entering the blower.

► **White powder-coated EG-steel armrest** is raised above the work surface to prevent operator's arms from blocking work surface inflow perforations.

► **Superior electrical safety for the operator**; all electrical components are UL listed or UL recognized; all cabinets are factory tested for electrical safety after production at manufacturing site.

► Designed to meet the general safety requirements of the IEC 61010-1 / EN 61010-1 / UL 61010A-1 / CSA C22.2 No. 1010.1-92.

► **WARRANTY:** Escoc SC2® biosafety cabinets carry a 12-month warranty, excluding consumables and accessories.

#### OPTIONAL ACCESSORIES

► **Support stand** with levelling feet (recommended for biosafety cabinets): Available for all sizes in two heights, 28" and 34". Also available with castor wheels.

► **Exhaust collar** for thimble ducting

► **Service Fixtures:** Both European and American style are available

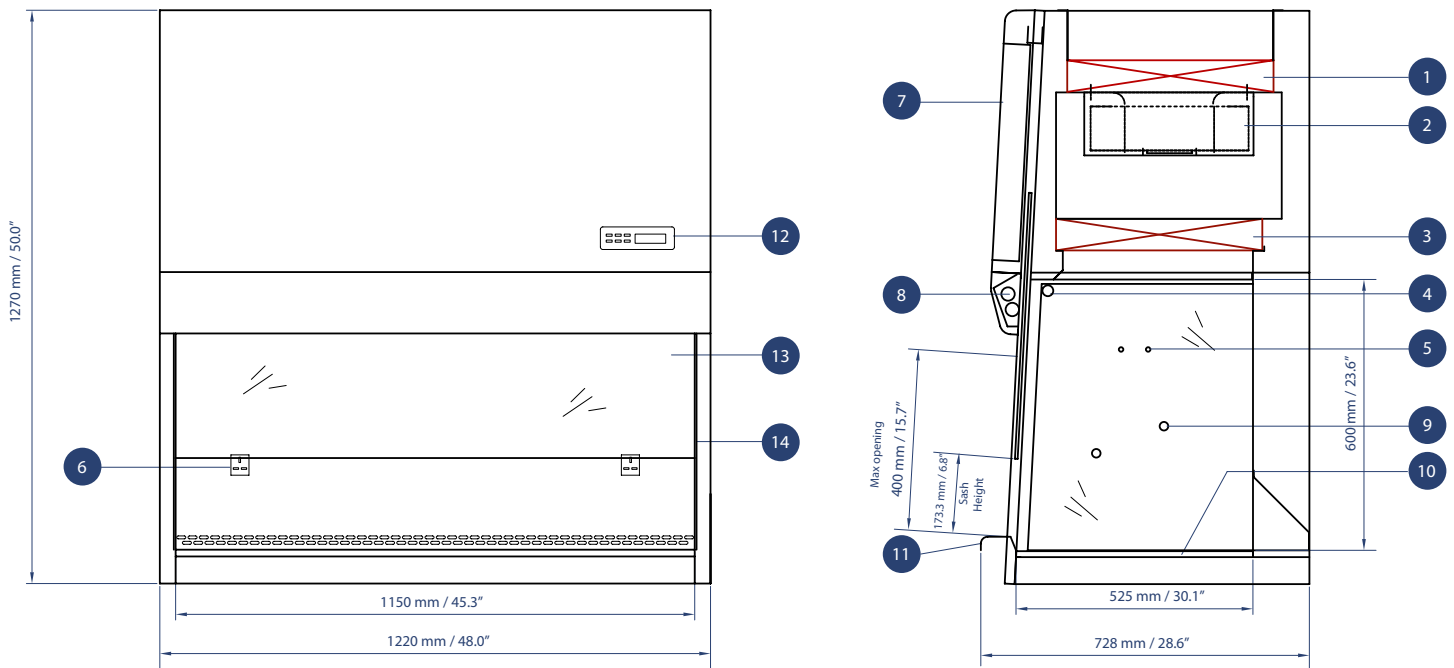
► **Germicidal UV lamp**

► **IV bar:** Stainless steel IV bar with 6 hooks for intravenous bags

► **Ergonomic accessories:** Labchair, footrest and armrest padding

► **Formalin vaporizer** for decontamination

**For detailed information on our ergonomic and optional accessories, download our Accessories catalogue: [biotech.escoglobal.com/catalogs.htm](http://biotech.escoglobal.com/catalogs.htm)**



- 1.** Exhaust HEPA Filter **2.** Blower **3.** Downflow HEPA Filter **4.** UV Light Retrofit Kit™ Provision **5.** IV Bar Retrofit Kit™ Provision **6.** Universal Electrical Outlet (2 on the backwall) **7.** Electrical/Electronics Module **8.** Fluorescent Lamp **9.** Service Fixture Retrofit Kit™ Provisions (2 on each sidewall) **10.** Single-Piece Stainless Steel Work Tray **11.** EG White Powder-Coated Armrest **12.** Esco Sentinel™ Microprocessor Control **13.** Tempered Glass Sash Window **14.** Tempered Side Glass Panels

General Specifications		SC2-4AX
External Dimensions (L x W x H)		1220 x 728 x 1270 mm / 48.0" x 28.6" x 50.0"
Internal Work Zone (L x W x H)		1150 x 525 x 600 mm / 45.3" x 30.1" x 23.6"
Standards Compliance		Air cleanliness: ISO 14644.1 Class 4, IEST-G-CC1001, IEST-G-CC1002 and other equivalent requirements Filter performance: IEST-RP-CC034.1, IEST-RP-CC007.1, IEST-RP-CC001.3 and EN1822 Electrical safety: IEC 61010-1 / EN 61010-1 / UL 61010A-1 / CSA C22.2 No. 1010.1-92
Average Airflow Velocities	Inflow	Initial setpoint: 0.45 m/s or 90 fpm (audible / visual alarm will activate at 0.4m/s or 80fpm)
	Downflow	Initial setpoint: 0.31 m/s or 61 fpm (uniformity is +/-20%)
Airflow Volumes At Initial Airflow Velocity Setpoints	Inflow	323 cmh / 190 cfm
	Downflow (70%)	661 cmh / 389 cfm
	Exhaust (30%)	323 cmh / 190 cfm
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
Downflow and Exhaust Filter Type		HEPA filter with integral metal guards and filter frame gaskets; fully compliant with EN 1822 and IEST-RP-CC001.3 requirements (each cabinet has individual downflow and exhaust filters)
Filter Efficiency Ratings		99.99% at 0.3µm
Noise Level		Typically <65 dBA at initial blower speed setting, according to EN 12469:2000 (subject to acoustic properties of test environment)
Light Intensity		>850 Lux / >79 foot candles, measured at work surface level (zero background) as per NSF49 test grid
Power Supply Options		<b>Choose from the following options and specify option number (e.g. SC2-4A1) when ordering</b> <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
Maximum Power Consumption / Current	(220-240VAC / 50Hz Models) 1Ph	417W / 1.81A
	(110-130VAC / 60Hz Models) 1Ph	517W / 4.31A
Net Weight		142 kgs / 313 lbs
Max Shipping Weight (Approximate)		216 kgs / 476 lbs
Max Shipping Dimensions (L x W x H)		1320 x 828 x 1450 mm / 60.0" x 32.6" x 57.1"
Max Shipping Volume		1.58 cbm / 55.8 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 predominantly 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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