

Esco Airstream® Duo Class II Biosafety Cabinet

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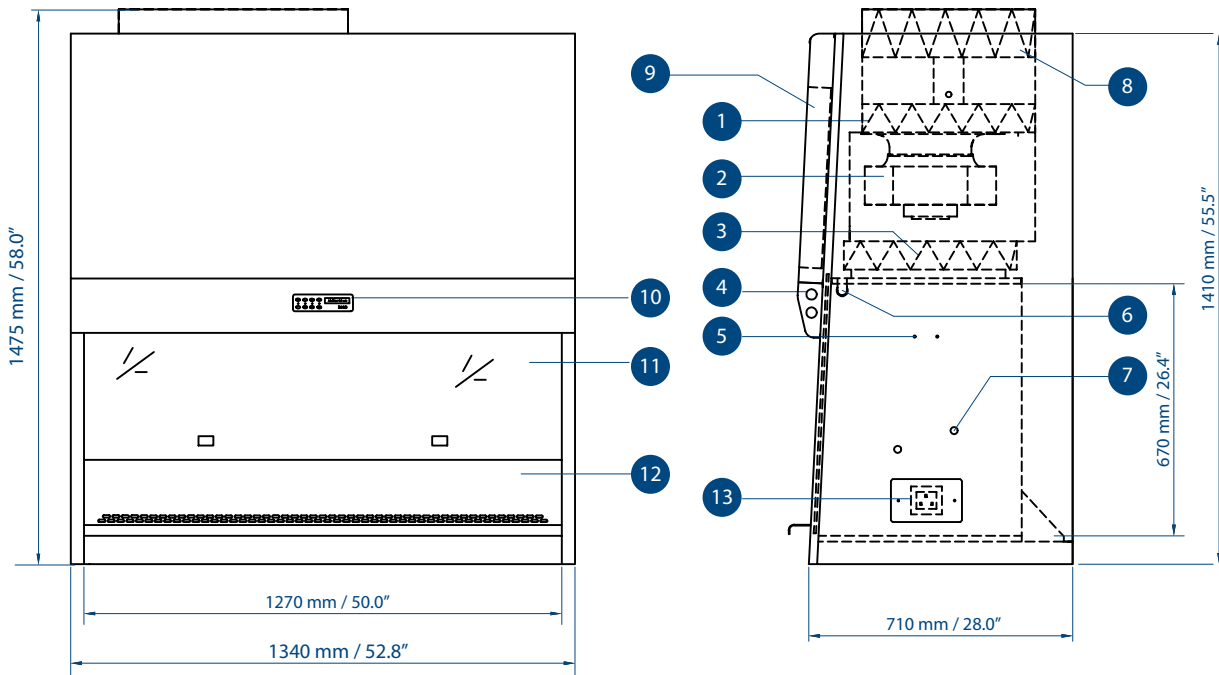


The **Esco Airstream® Duo Class II biosafety cabinet** is a double-fan / double-exhaust filter version of Esco's Airstream® S-Series Class II biosafety cabinet model. Providing operator, product and environment protection from hazardous aerosols through superior minipleat ULPA filters, the product combines the best product performance features with Esco's ergonomic design. The inherently safe double fan system guarantees safety even when one blower fails, while the exhaust air is filtered twice through our superior ULPA filters, ensuring absolute safety in your laboratory.

The cabinet features Esco Isocide™ antimicrobial coated external body structure and a reduced overall height for low-ceiling laboratories.

Key Features

- ★ **Product / Operator / Environment Protection**
- ★ **ULPA Filters** with typical efficiency at >99.999% at 0.12µm provide ISO Class 3 cleanliness within work zone and safety to the surrounding environment.
- ★ **Extra-Safe Double Exhaust Filters:** Contaminated air is filtered twice before being exhausted out.
- ★ **Inherently-Safe Double Fan System:** if one fan fails, the second blower is activated.
- ★ **Easy-to-Clean:** Stainless steel internal walls
- ★ **Isocide™ Antimicrobial Coated Structure** eliminates 99.9% of bacterial presence on external surfaces within 24 hours.
- ★ **Ergonomic Sloped Front** eliminates glare off the front window, and ensures operator comfort during extended usage.
- ★ **Microprocessor-based control and alarm system**
- ★ **Low noise level** for quiet working environment.



Engineering Details

- 1. First Exhaust ULPA Filter
- 2. Main Blower
- 3. Downflow ULPA filter
- 4. Fluorescent Light
- 5. IV Bar Retrofit Kit™ Provision
- 6. Standard UV Light Retrofit™ Kit Provision
- 7. Plugged Service Fixture Provisions (2 on each side wall) for Gas/Vacuum/Water. (Solenoid Gas Valve Option Available)
- 8. Secondary Exhaust ULPA Filter
- 9. Electrical / Electronics Panel
- 10. Esco Sentinel™ Microprocessor Control System
- 11. Front Sliding Sash Window
- 12. Stainless Steel Back Wall and Side Wall
- 13. Electrical Outlet Retrofit Kit™ Provision (2 single outlets)

General Specifications		AC2-4DX
External Dimensions (L x W x H)		1340 x 710 x 1475 mm / 52.8" x 28.0" x 58.0"
Internal Work Zone (L x W x H)		1270 x 560 x 670 mm / 50.0" x 22.0" x 26.4"
Standards Compliance		Air cleanliness: ISO 14644.1 Class 3, 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
	Downflow	Initial setpoint: 0.31 m/s or 61 fpm (uniformity is +/-20%)
Airflow Volumes At Initial Airflow Velocity Setpoints	Inflow	375 cmh / 220 cfm
	Downflow (65%)	740 cmh / 440 cfm
	Exhaust (35%)	375 cmh / 220 cfm
Cleanliness Within Working Area		ISO14644.1 Class 3, US Federal Standard 209E Class 1 / M1.5, AS1386 Class 1.5, JIS B9920 Class 3, BS5295 Class C, Class M10,000 as per KS27030.1 and equivalent classes of VDI2083 and AFNOR X44101
Downflow, Exhaust and Secondary Exhaust Filter Type		ULPA 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		Typical: 99.9998% at 0.3µm / 99.9998% at 0.12µm / 99.9997% at MPPS
Noise Level		<60 dBA The above measurement was taken at initial blower speed setting on a standard 4ft model, as per EN12469 specifications. Figures are 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
Main Body Construction		1.5mmt / 0.06" / 16 gauge electro-galvanised steel with white oven-baked epoxy anti-microbial Isocide™ antimicrobial powder-coated finish
Maximum Power Consumption / Current	220-240VAC / 50Hz 1Ph	Cabinet: 300W / 1.5A Outlet: 1000VA / 5A
	110-130VAC / 60Hz 1Ph	Cabinet: 385W / 3.5A
		Outlet: 500VA / 5A
	Net Weight (Approximate)	
Max Shipping Dimensions (L x W x H)		1500 x 950 x 1880 mm / 59.0" x 37.4" x 74.0"
Max Shipping Volume		2.68 cbm / 94.6 cbf

Your Local Distributor:



Esco Biotechnology Equipment Division
21 Changi South Street 1, Singapore 486777
Tel: +65 6543 0833 • Fax: +65 6542 6920
Email: biotech@escoglobal.com • Website: biotech.escoglobal.com