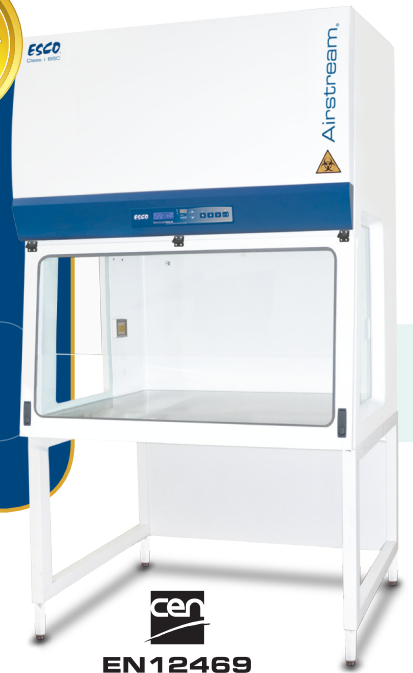


NEW!



Airstream®



EN12469

*Airstream Class I Biosafety Cabinet,
Model AC1-4E8*

Class I Microbiological Safety Cabinets
The Leading Energy Efficient, Quiet, and Ergonomic
Biosafety Cabinet



ESCO

WORLD CLASS. WORLDWIDE.



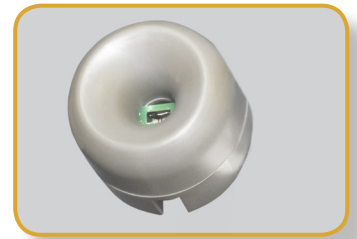
RS 232 SERIAL
INTERFACE PORT



Zero voltage
relay contact

RS 232 Port and Zero Volt Relay Contact

- RS 232 Port to send operational information to Building Management System (BMS)
- Zero Volt Relay Contact to turn ON/OFF exhaust blower and signal the building alarm



Sentinel™ Gold Microprocessor Controller

- Displays all safety information on one screen
- Centered and angled down for easy reach & viewing



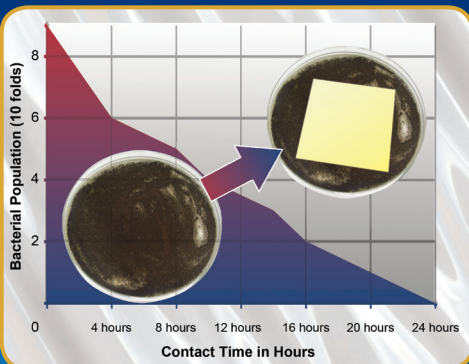
Easy to Clean Back Wall

- Large back tray radius for easy cleaning
- Removable back wall for cleaning access



Single-piece Work Tray

- Easy to lift and clean
- Large middle tray for jointless work area



Isocide™ Powder Coat

- Silver-ion impregnated powder coat
- Inhibit microbial growth to improve safety

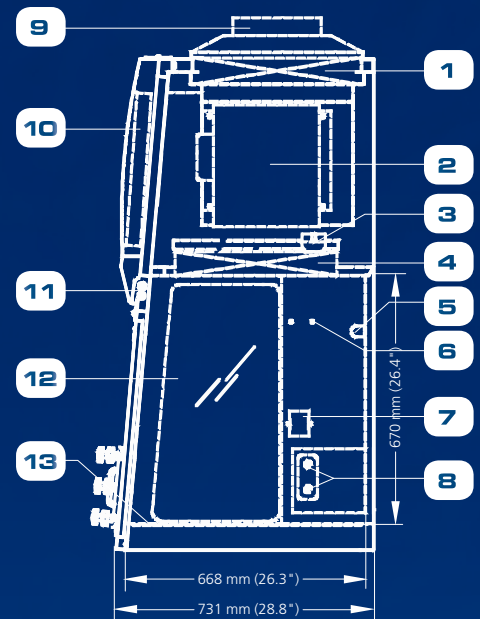
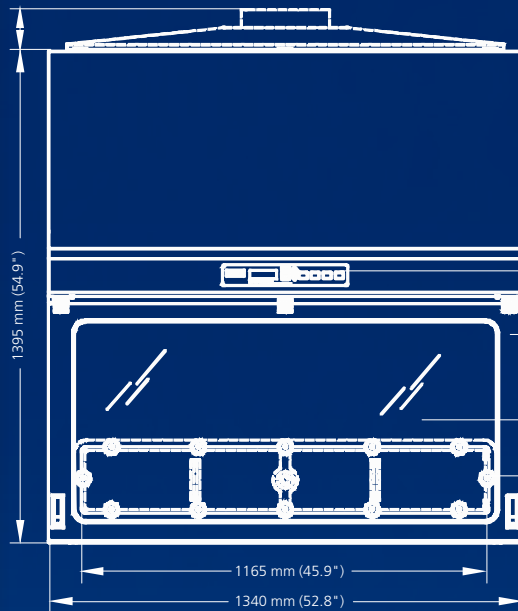
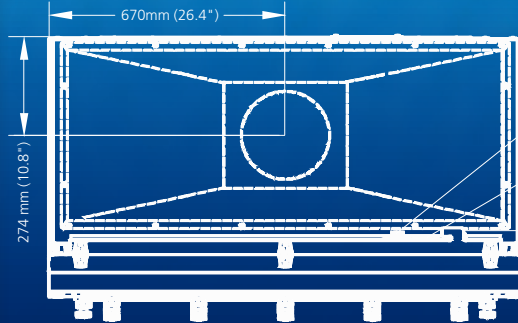
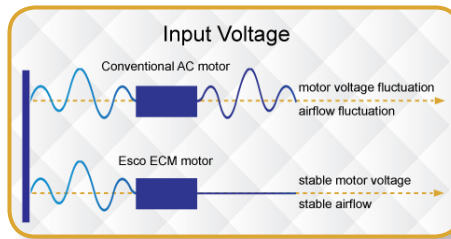
Available in 1.2 meter / 4 ft width

Airflow Sensor

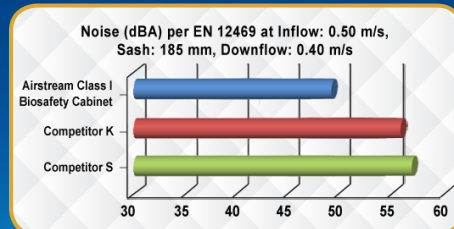
- Monitors real-time airflow for safety
- Alert the user if airflow is insufficient

Energy Efficient ECM Motor

- 70% Energy savings from AC motor
- Stable airflow, despite building voltage fluctuations
- Night Setback to further reduce power consumption by 60%



1. Second Filter (optional)
2. ECM Blower
3. Inflow Sensor
4. First Filter (optional)
5. UV Lamp Provision
6. IV Bar Retrofit Kit Provision
7. Standard Electric Outlet Retrofit Kit Provision
8. Service Fixture Retrofit Kit Provision (2 on each side)
9. Exhaust Ducting (optional)
10. Electrical / Electronic Panel
11. T5 Fluorescent Lamps
12. Side Tempered Glass
13. Stainless Steel Table
14. 2 Sets Zero Volt Relay Contact
15. RS 232 Port
16. Power Inlet
17. Sentinel™ Gold Microprocessor System
18. Hinged Front Door
19. 8 mm Polycarbonate UV Resistance
20. Air Tight UV Door (optional)



Standards Compliance	Biosafety Cabinets	Filtration	Electrical Safety
	EN 12469, Europe SANS12469, South Africa	EN-1822 (H14), Europe IEST-RP-CC001.3, USA IEST-RP-CC007, USA IEST-RP-CC034.1, USA	IEC61010-1, Worldwide EN-61010-1, Europe

TECHNICAL SPECIFICATIONS

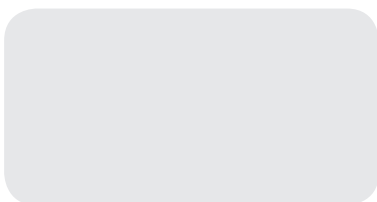
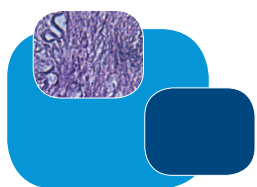
Model		AC1-4E8
External Dimensions (W x D x H)		1340 x 731 x 1395 mm (52.8" x 28.8" x 55.0")
Gross Internal Dimensions (W x D x H)		1220 x 660 x 670 mm (48.0" x 26.0" x 26.4")
Usable Work Area		0.76 m ²
Tested Opening		203 mm (8")
Working Opening		203 mm (8")
Average Inflow Velocity		0.85 m/s (167 fpm)
Airflow Volume	Inflow	758 m ³ /h (446 cfm)
	Exhaust	758 m ³ /h (446 cfm)
	Required Exhaust With Optional Thimble Exhaust Collar	1219 m ³ /h (717 cfm)
	Static Pressure For Optional Thimble Exhaust Collar	85 Pa (0.34 in H ₂ O)
HEPA Filter Typical Efficiency		>99.999% at 0.1 to 0.3 micron, ULPA as per IEST-RP-CC001.3 USA >99.999% at MPPS, H14 as per EN 1822 EU
Sound Emission in Typical Lab Room		53.5 dBA
Fluorescent Lamp Intensity (lux)		>1200 lux (>111 foot candles)
Cabinet Construction	Main body	1.2 mm (0.08") / 18 gauge EG Steel With Isocide Oven-Baked Epoxy-Polyester Powder Coating
	Work Zone	Tray: 1.2 mm (0.08") / 18 gauge, SS 304, 4B Finish
	Side Walls	5 mm (0.2") UV Absorbing Tempered Glass
Electrical	Cabinet Full Load Amps (FLA)	8.1
	Heat Load (BTU / Hr)	628
Nominal Power Consumption		184 W
Net Weight *		230 Kg (507 lbs)
Shipping Weight *		285 Kg (628 lbs)
Shipping Dimensions, Maximum (W x D x H)*		1450 x 820 x 1760
Shipping Volume, Maximum *		2.09 m ³

* Cabinet only, excludes optional stand.

Comprehensive Performance Testing at Esco

Every Biosafety Cabinets manufactured by Esco is individually tested, documented by serial number and validated with the following test methods.

- Inflow and downflow velocity
- PAO aerosol challenge for filter integrity
- Airflow pattern visualization
- Electrical safety to IEC61010-1
- Additional KI-Disc containment and microbiological testing are performed on statistical sampling basis



ART Equipment
 Biological Safety Cabinets
 CO₂ Incubators
 Compounding Pharmacy Equipment
 Containment / Pharma Products
 Ductless Fume Hoods
 Freeze Dryer
 Lab Animal Research Products
 Laboratory Fume Hoods
 Laboratory Ovens and Incubators
 Laminar Flow Clean Benches
 PCR Cabinets
 PCR Thermal Cyclers
 Powder Weighing Balance Enclosures
 Ultra-low Freezers

The Esco Group of Companies is a global life sciences tools provider with sales in over 100 countries. The group is active in lab equipment, pharma equipment and medical devices. Manufacturing facilities are located in Asia and Europe. R&D is conducted worldwide spanning the US, Europe and Asia. Sales, service and marketing subsidiaries are located in 12 major markets including the US, UK, Singapore, Japan, China and India. Regional distribution centers are located in the US, UK, and Singapore.

ESCO

WORLD CLASS. WORLDWIDE.

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9010184 Biological Safety Cabinet ACL 12/13
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