

NEW!



Airstream[®]



EN 12469

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

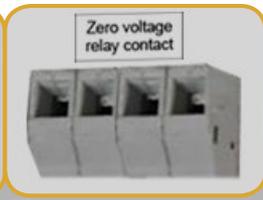
Class I Microbiological Safety Cabinets

The Leading Energy Efficient, Quiet, and Ergonomic Biosafety Cabinet



ESCO

WORLD CLASS. WORLDWIDE.



RS 232 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

Airflow Sensor

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



Sentinel™ Gold Microprocessor Controller

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

Optional Secondary H14 or Carbon Filter

H14 Filter

- 10x filtration efficiency of HEPA filter



Easy to Clean Back Wall

- Large back wall radius for easy cleaning
- With UV Lamp Provision



Hinged Window

- 90° opening for an easy workzone access
- 8 mm UV Resistant Polycarbonate Window
- Gasket-surrounded window to provide airtight seal for better safety.



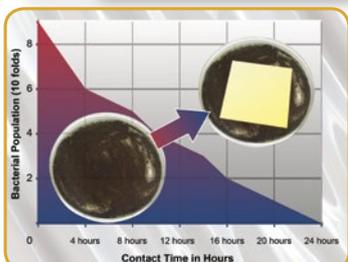
UV Door

- Safety door against UV light
- Provides air-tight seal during decontamination
- Integrated with VHP Injection Port for easy connection to VHP/HPV generator



Work Top

- 1.2 mm (0.05") 18 gauge SS 304, 4B Finish
- Spill-retaining work top design with a recessed central area contains accidental liquid spills.



Isocide™ Powder Coat

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



Available in 1.2 meter / 4 ft width



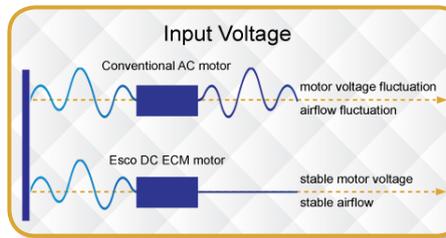
EN12469

Esco Class I Microbiological Safety Cabinets has been certified by PHE / Public Health England (formerly HPA) for compliance to EN 12469



Energy Efficient DC ECM Motor

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



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
Maximum Window Opening (at 90° opening)		565 mm (22.2")
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 per EN 12469		48.4 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	Table: 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 mm (57.1" x 32.3" x 67.6")
Shipping Volume, Maximum *		2.09 m ³

Accessories for AC1 Biological Safety Cabinets

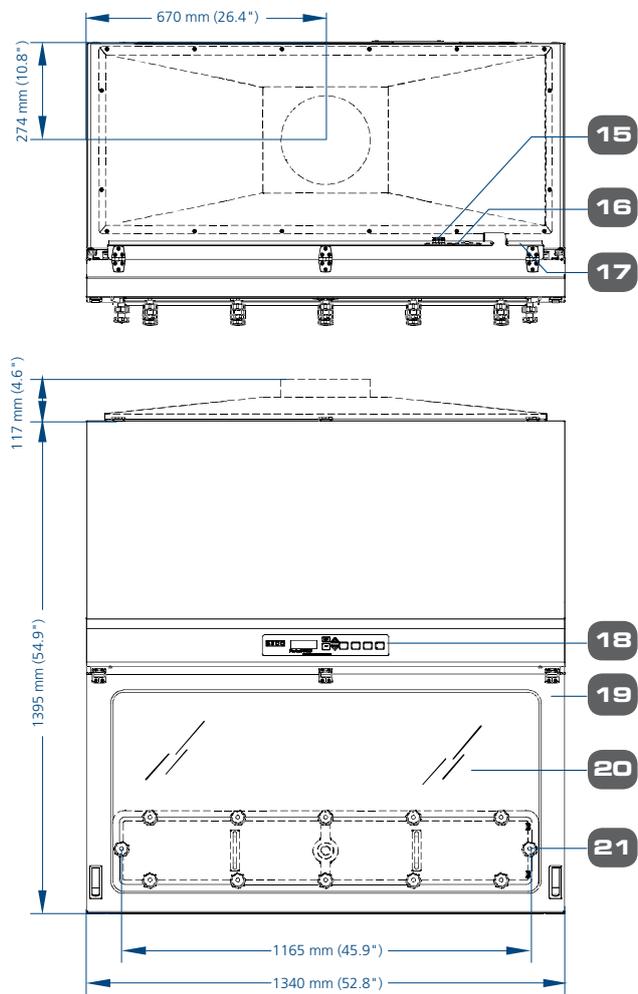
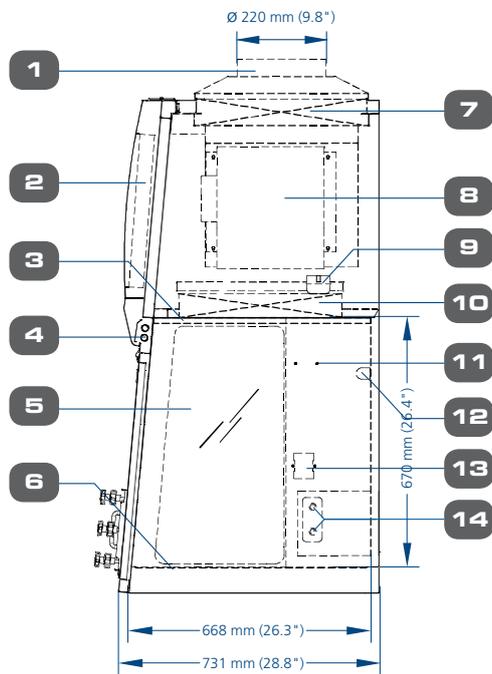
Cabinet	Stainless Steel Side Wall	AC1-4E8 2010732
Optional Secondary Filter	Secondary H14 Filter	HP-AC1-4 5080138
	Secondary Carbon Filter	CRF/SEC-AC1-4 5080139
Exhaust Ducting	Exhaust Hard Ducting (with VHP out Port)	EHD AC1-4 5170666
	Anti-blowback Valve 10"	ABBV-10P 5170352
	Tri-safe Exhaust Collar with Alarm	TEM-4 2010606
	Exhaust Damper	B2-DAMPER 5170352
Hydrogen Peroxide Decontamination Kit	UV Door (with VHP In Port)	UV DOOR AC1-4 5090044
	VHP Out Top Box for Cabinet WITHOUT Exhaust Collar Installed (Ø 1")	VHP OUT TOP BOX 4ft 5170665
Work Zone	UV Lamp	UV-30A-L 5170255
	IV Bar	IV-1215 5170231
	Pre-filter	PF-25 5090045
Electrical Outlet	Universal	EO-UNI 5170060
Service Fixtures	EU SF-Gas-20 mm	SF-1G20 5170410
	EU SF-Vacuum-20 mm	SF-1V20 5170457
	EU SF-Air-20 mm	SF-1A20 5170502
	EU SF-Nitrogen-20 mm	SF-1N20 5170503
	EU SF-Water-20 mm	SF-1W20 5170458
Support Stands, Ships Flat	EU SF-Universal-22 mm	SF-2U22 5170504
	Fixed Stand with Leveling Feet, 28" height	SAL-4A0 Gen 2 5130134
	Fixed Stand with Leveling Feet, 34" height	SAL-4B0 Gen 2 5130175
	Fixed Stand with Caster Wheels, 28" height	SPC-4A0 Gen 2 5130152
	Fixed Stand with Caster Wheels, 34" height	SPC-4B0 Gen 2 5130166
	Motorized Height Stand with Caster Wheels	SPM-4A_
Misc	IQ OQ Protocol	9010179

Standards Compliance	Biological Safety 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

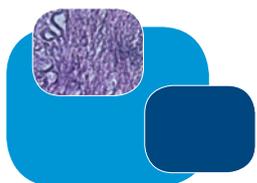
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AC1 Biological Safety Cabinet Engineering Drawing



- | | | | |
|-----------------------------------|---|--|--|
| 1. Exhaust Ducting (optional) | 7. Optional Secondary H14 Filter / Carbon filter) | 13. Standard Electrical Outlet Kit Provision | 18. Sentinel™ Gold Microprocessor System |
| 2. Electrical Panel | 8. DC ECM Blower | 14. Service Fixtures Kit Provision
(2 on each side) | 19. Hinged Front Door |
| 3. Diffuser / Optional Pre-filter | 9. Inflow Sensor | | 20. 8 mm UV Resistant Polycarbonate Window |
| 4. T5 Fluorescent Lamps | 10. Main H14 Filter | 15. 2 Sets Zero Volt Relay Contact | 21. Air Tight UV / Decontamination Panel |
| 5. Side Tempered Glass | 11. IV Bar Retrofit Kit Provision | 16. RS 232 Port | |
| 6. Stainless Steel Table | 12. UV Lamp Provision | 17. Power Inlet | |



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

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