

Class II Type A2 Bioltogical Safety Cabinets

The Leading Energy Efficient, Quiet, and Ergonomic Biosafety Cabinet





RS 232 Serial Interface Port

Send operational information to Building Management System (BMS)

ESGO

Optional zero volt exhaust and alarm contact



2

Esco AC2 15:34 Airflow: OK Sash: OK I: 0.53 m/s D: 0.30 m/s Socket: ON

Sentinel GOLD



Sentinel™ Gold Microprocessor Controller

- Displays all safety information on one screen
- Centered and angled down for easy reach & viewing
- Selectable Quickstart mode for fast operation



Single-Piece Wall

- **■** Easy to reach service fixture and outlets
- Large radius for easy cleaning



Single-piece Work Tray

- Recessed to contain spillage
- Sloped perimeter that's easy to wipe



Raised Arm Rest

- Helps prevent grille blocking
- Comfortable working posture



Removable Paper Catch

- Easy to clean
- Optional pre-filter can be fitted





Available in 1.2 and 1.8 meter width (4' and 6')

2\$ 0003

NSF 49

UL 61010

Airstream®

Airflow Sensor

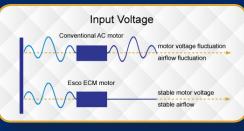
- Monitors real-time airflow for safety
- Alert the user if airflow is insufficient

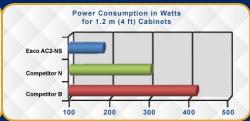


Energy Efficient ECM Motor

- The leading energy efficient Class II Type A2 Biosafety Cabinet in the world with 70% Energy savings compared to AC motor
- Stable airflow, despite building voltage fluctuations & filter loading
- Night Setback mode to further reduce power consumption by 60%





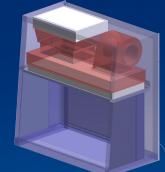


ULPA Filter

- 10x Filtration efficiency of HEPA filter
- Creates ISO Class 3 work zone instead of industry-standard ISO Class 5

Dynamic Chamber

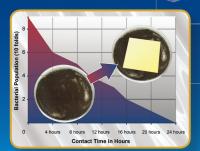
- Blower plenum and side walls are surrounded by negative pressure
- Prevent contaminants from escaping outside
 - ☐ Positive pressure☐ Negative pressure



3

ISOCIDE™ Powder Coat

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



Certification

	Biosafety Cabinets	Air Quality	Filtration	Electrical Safety
Standards Compliance	NSF / ANSI 49 NSF*	ISO 14644.1, Class 3, Worldwide JIS B9920, Class 3, Japan JIS BS5295, Class 3, Japan US Fed Std 209E, Class 1 USA	EN-1822 (H14), Europe IEST-RP-CC001.3, USA IEST-RP-CC007, USA IEST-RP-CC034.1, USA	UL-61010A-1, USA CSA22.2, No.1010-192, Canada EN-61010-1, Europe IEC61010-1, Worldwide

^{*} The NSF / ANSI 49 certified models are: AC2-4S8-NS. AC2-4S9-NS. AC2-6S8-NS and AC2-6S9-NS

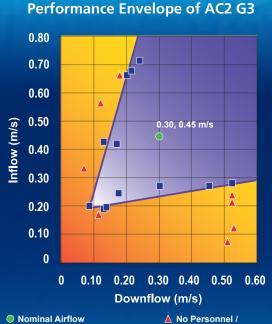
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Approximately 1/3 of the air in the common plenum is exhausted through the ULPA filter to the room. The remaining 2/3 of the air is passed through the downflow ULPA filter and into the work area as a vertical laminar flow air to create ISO Class 3 work surface and prevents cross contamination.

Near the work surface, the downflow splits. About Half goes to the front grille, and half goes to the rear grille. A small portion enters the the side capture zones to prevent dead air corners (small blue arrows).

The design was optimized to give large performance envelope, that provides operator and product protection at wide Inflow and Downflow variation from the Nominal point.



- Personnel / Product Protection
- Area of Personnel / Product Protection
- ▲ No Personnel /
 Product Protection
- Area of no Personnel / Product Protection

 Dynamic air barrier, where inflow and forward-directed downflow air converge

■ Unfiltered / potentially contaminated air

ULPA-filtered air

Room air / Inflow air

Options and Accesories for AC2 Biological Safety Cabinets				
Model	Description			
υv	UV lamp, 254nm			
EO	Direct Mounted Electrical Outlet. Optional GFCI avai			
SPCA0	Support Stand with Caster Wheels (Height 28") for sitting position			
SPCB0	Support Stand with Caster Wheels (Height 34") for standing position			
SALA0	Support Stand with Leveling Feet (Height 28") for sitting position			
SALB0	Support Stand with Leveling Feet (Height 28") for standing position			
STCA0	Telescoping Support Stand with Caster Wheels (Adjustable: 28"-34")			
STLA0	Telescoping Support Stand with Leveling Feet (Adjustable: 28"-34")			
SPMA1	Motorized Adjustable Support Stand with Caster Wheels (28"-37.8")			
VHP	???			
SF-X	Service Fixture with 50mm Thread Length for Gas, Vacuum, Nitrogen, Air, Water or Universal			
IV-XXXX	IV bar kit, Includes 6 hooks, Max Load 6 Kg (13 lbs), Specify model when ordering, Field installed			
FOOT REST	Ergonomic Foot Rest- angled surface, easily adjustable from 75 to 275 mm increment (500 mm wide)			
ECO-AC22_C	Thimble Exhaust Collar			
TEM-4	TriSafe Exhaust Module, additional HEPA filter fitted in ductwork			
ABBV-01	Anti Blowback Valve, automatically shuts exhaust, preventing back flow in the duct			
B2-Damper	Air Tight Damper			



TECHNICAL SPECIFICATIONS OF AC2-NS

* Noise reading in open field condition / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3-4 dBA above these values.

** Cabinet only, excludes optional stand.





ART Equipment Biological Safety Cabinets CO, Incubators Cold Storage Compounding Pharmacy Equipment Containment / Pharma Products **Ductless Fume Hoods** Lab Animal Research Products Laboratory Fume Hoods Laboratory Incubators **Laboratory Ovens Laminar Flow Cabinets Laboratory Freeze Dryers PCR Cabinets PCR Thermal Cyclers Powder Weighing Balance Enclosures**



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