



Airstream Reliant Class II Type A2
Biosafety Cabinet, Model AR2-4S9

Airstream®

RELIANT

Class II Type A2 Biological Safety Cabinets

The Leading Energy Efficient, Robust, Quiet, and
Ergonomic Biosafety Cabinet



ESCO

WORLD CLASS. WORLDWIDE.



Adjustable UV Timer

- Easily adjustable to desired minutes or hours
- Prolongs UV lamp life, for not turning it ON overnight



Rocker Switches and Pressure Gauge

- Easy to use switches
- Displays filter loading status
- Manually adjustable UV timer



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')



NSF 49



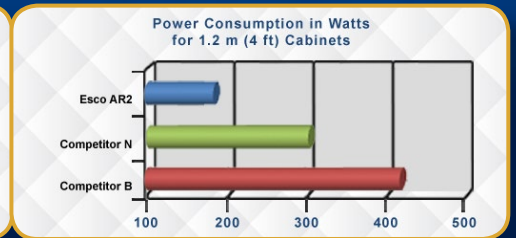
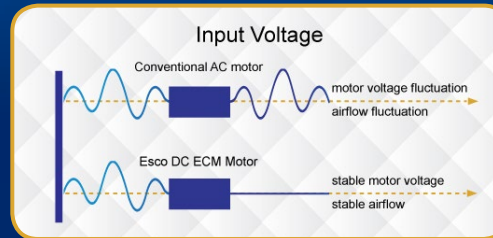
UL 61010

Airstream® • RELIANT

Class II Type A2 • Biological Safety Cabinets

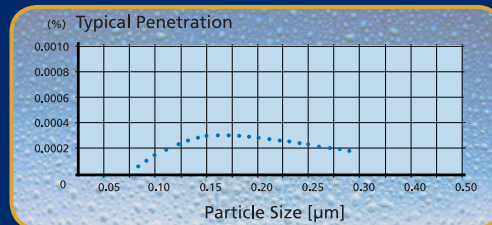
Energy Efficient DC ECM Motor

- 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



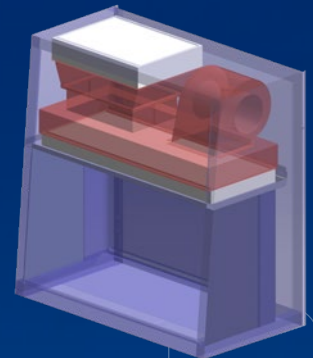
Esco cabinets use ULPA filters (per IEST-RP-CC001.3) / H14 per EN 1822 instead of H13 HEPA filters used on many BSCs in the market.

HEPA filters only offer 99.99% typical efficiency at 0.3 micron, while ULPA filters provide 99.999% typical efficiency for particle sizes of 0.1 to 0.3 micron.

Dynamic Chamber

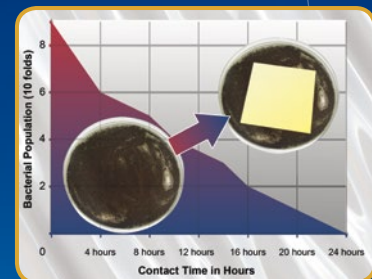
- Blower plenum and side walls are surrounded by negative pressure
- Prevent contaminants from escaping outside

■ Positive pressure
■ Negative pressure



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 B55295, 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: AR2-4S9 and AR2-6S9

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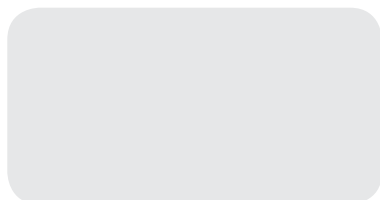
TECHNICAL SPECIFICATIONS OF AR2

| Model | | AR2-4S9 | AR2-6S9 |
|--|--|---|--|
| External Dimensions (W x D x H) mm | | 1340 x 753 x 1400 (52.75" x 29.5" x 54.7") | 1950 x 753 x 1400 (76.75" x 29.5" x 54.7") |
| Gross Internal Dimensions (W x D x H) mm | | 1220 x 580 x 660 (48" x 22.75" x 26") | 1830 x 580 x 660 (72" x 22.75" x 26") |
| Usable Work Area | | 0.56 m ² (6.1 ft ²) | 0.86 m ² (9.2 ft ²) |
| Tested Opening | | 203 mm (8") | |
| Working Opening | | 218 mm (8.5") | |
| Average Inflow Velocity | | 0.53 m/s (105 fpm) | |
| Average Downflow Velocity | | 0.30 m/s (60 fpm) | |
| Airflow Volume | Inflow | 473 cmh (280 cfm) | 709 cmh (417 cfm) |
| | Downflow | 738 cmh (434 cfm) | 1107 cmh (652 cfm) |
| | Exhaust | 473 cmh (280 cfm) | 709 cmh (417 cfm) |
| | Required Exhaust With Optional Thimble Exhaust Collar | 736 cmh (433 cfm) | 1124 cmh (662 cfm) |
| | Static Pressure For Optional Thimble Exhaust Collar | 45 Pa / 0.18 in H ₂ O | 65 Pa / 0.26 in H ₂ O |
| ULPA 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 per NSF / ANSI 49* | | 57.5 dBA | 60.5 dBA |
| Fluorescent Lamp Intensity (lux) | | 1700 lux (158 foot candles) | 1647 lux (153 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 | 1.5 mm (0.06") / 16 gauge, SS 304, 4B finish | |
| | Side Walls | 1.5 mm (0.06") / 16 gauge, SS 304, 4B finish | |
| Electrical | Cabinet Full Load Amps (FLA) | 11 | 15 |
| | Heat Load (BTU / Hr) | 628 | 1003 |
| Nominal Power Consumption | | 200 W | 294 W |
| Net Weight ** | | 230 Kg (507 lbs) | 346 Kg (763 lbs) |
| Shipping Weight ** | | 285 Kg (628 lbs) | 428 Kg (944 lbs) |
| Shipping Dimensions, Maximum (W x D x H)** | | 1450 x 820 x 1760 mm (57" x 32" x 69") | 2050 x 820 x 1760 mm (57" x 32" x 69") |
| Shipping Volume, Maximum ** | | 2.09 m ³ (74 ft ³) | 2.96 m ³ (105 ft ³) |

Specifications are subject to change without notice.

* 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.



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