

ESCO
LIFESCIENCES



Airstream® RELIANT AR2-4S9 G4

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Class II Type A2 Biological Safety Cabinets

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

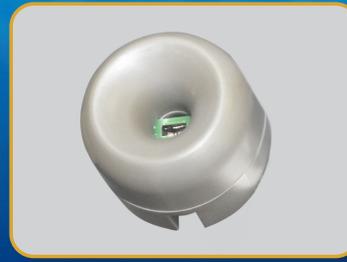


AIRSTREAM® RELIANT G4 (AR2 G4) CLASS II TYPE A2 BIOSAFETY



Zero Volt Relay Contact

- Zero Volt Relay Contact to turn ON/OFF exhaust blower and signal the building alarm



Airflow Sensor

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



Rocker Switches and Pressure Gauge

- New and improved controller interface
- Easy to use switches and displays filter loading status
- Manually adjustable UV timer



Adjustable UV Timer

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



One-Piece Interior Wall

- Double layer side walls with negative pressure
- Easy to reach service fixture and outlets
- Large radius corner for easy cleaning



Raised Arm Rest

- Prevent grille blocking
- Comfortable working posture
- Durable stainless steel construction



Esco Airstream® RELIANT G4 Class II Type A2 Biosafety Cabinet Available in 3 feet, 4 feet, 5 feet, and 6 feet models.



Ergonomic Work Zone

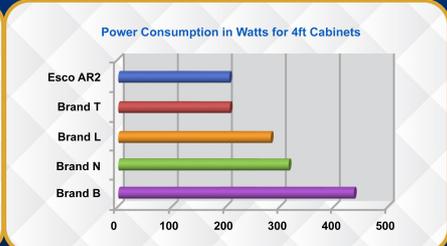
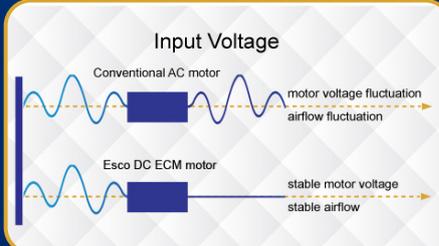
- 10° angle to optimize user comfort, reduce glare, and maximize reach into the work area
- Brightly illuminated with >111 ft. cd
- Airtight seal port for cable/tube exit protected by a negative pressure side wall

CABINET, FEATURING ADVANCED MICROPROCESSOR CONTROLLER



Energy-efficient DC ECM Blower

- 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
- Standby mode to further reduce power consumption by 60%



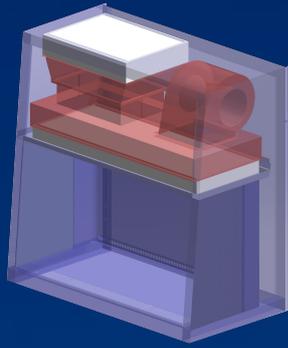
ULPA Filter

- 10x Filtration efficiency of HEPA filter
- Creates ISO Class 3 work zone instead of industry-standard ISO Class 5
- Same 10 years filter life and replacement cost as HEPA filters

Dynamic Chamber™

- Blower plenum and side walls are surrounded by negative pressure
- Prevents contaminants from escaping outside
- Steel plenum with Isocide™ coating, instead of flexible bag plenum, to prevent contamination leak

■ Positive pressure
■ Negative pressure



Angled Sash

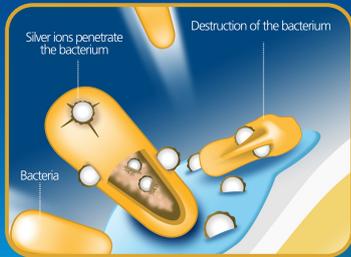
- 10° angled front to optimize user comfort, reduce glare and maximize reach into the work area

User Modified Pass-Through / Cable Port

- 3" Port with 1/4" hole on rubber membrane inside
- NSF-approved. Surrounded by negative pressure
- Allows cables and tubes to exit with fully closed sash

ISOCIDE™ Powder Coat

- Silver-ion impregnated powder coat
- Inhibits microbial growth to improve safety
- Prevents the plenum from becoming biohazard landfill



Certification				
	Performance	Air Quality	Filtration	Electrical Safety
Standards Compliance	NSF / ANSI 49, USA	ISO 14644.1, Class 3, Worldwide US Fed Std 209E, Class 1 USA JIS B9920, Class 3, Japan	EN-1822 (H14), Europe IEST-RP-CC001, USA	UL 61010-1 3rd Ed, USA CSA22.2, No.1010-192, Canada

TECHNICAL SPECIFICATIONS

Model	110-130 VAC, 50/60 Hz	AR2-3S9 G4 2011507	AR2-4S9 G4 2011509	AR2-5S9 G4 2011511	AR2-6S9 G4 2011513
External Dimensions (W x D x H)		40.7" x 33.5" x 55.1"	52.8" x 33.5" x 55.1"	64.8" x 33.5" x 55.1"	76.8" x 33.5" x 55.1"
Gross Internal Dimensions (W x D x H)		36.0" x 24.0" x 26.0"	48.0" x 24.0" x 26.0"	60.0" x 24.0" x 26.0"	72.0" x 24.0" x 26.0"
Usable Work Area		4.9 ft ²	6.5 ft ²	8.2 ft ²	9.8 ft ²
Sash Opening		8" or 10"			
Average Inflow Velocity		105 fpm			
Average Downflow Velocity		60 fpm			
Airflow Volume	Inflow / Exhaust Without Ducting	208 cfm	280 cfm	348 cfm	417 cfm
	Downflow	325 cfm	434 cfm	543 cfm	652 cfm
	Required Exhaust with Optional Thimble Exhaust Collar	313 cfm	418 cfm	522 cfm	626 cfm
	Static Pressure For Optional Thimble Exhaust Collar	32 Pa / 0.12 in H ₂ O	45 Pa / 0.18 in H ₂ O	57 Pa / 0.23 in H ₂ O	68 Pa / 0.27 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		58.5 dBA	60.5 dBA
LED Lamp Light Intensity		91 foot candles	100 foot candles	97 foot candles	96 foot candles
Cabinet Construction	Main Body	0.05" / 18 gauge EG Steel with Isocide™ Oven-Baked Epoxy-Polyester Anti-microbial Powder Coating			
	Work Zone	0.06" / 16 gauge, Stainless Steel 304, 4B finish			
	Side Walls	0.06" / 16 gauge, Stainless Steel 304, 4B finish			
	Sash Glass	0.2" mm UV-absorbing Tempered Glass			
Electrical	Cabinet Full Load Amps (FLA)	11	11.5	12.5	15
	Heat Load (BTU / Hr)	503	628	698	999
	Nominal Power Consumption (W)	160	200	222	318
Net Weight		448 lbs	540 lbs	668 lbs	796 lbs
Shipping Weight		509 lbs	3661 lbs	814 lbs	977 lbs

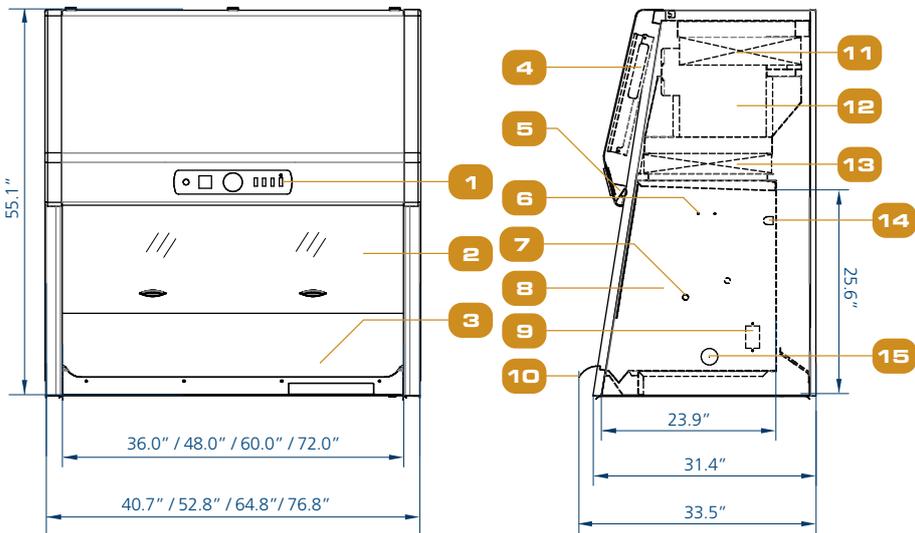
Disclaimer: Technical Specifications may be subjected to further changes without further notice.

*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.

**Electrical power consumption is a measurement of new unit within nominal set point. Result may vary due to several independent variables

Engineering Drawing

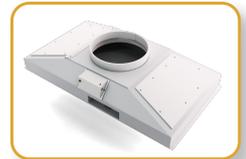


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|---|---|-------------------------------|
| 1. Rocker Switches and Pressure Gauge | 6. IV Bar Provision (Optional) | 11. Exhaust ULPA (H14) Filter |
| 2. Tempered Glass - Sliding sash Window | 7. Service Fixture Retrofit Kit Provision | 12. ECM Blower |
| 3. Stainless Steel Dished Worked Tray | 8. Stainless Steel Side Wall | 13. Downflow Filter |
| 4. Electrical Panel | 9. Duplex GFCI Electrical Outlet (5A Max) | 14. UV Lamp |
| 5. LED Lamps | 10. Stainless Steel Curved Arm Rest | 15. Cable Port |

Common Accessories



Additional SF-2U Service Fixture



Thimble Exhaust Collar with Alarm



IV Bar



Foot Rest



Seismic Bracket



STA Support Stand