



Airstream®

Laminar Flow Cabinets, Horizontal and Vertical

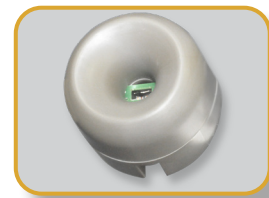
The World's Quietest and Safest Choice for Sample Protection Needs

More product variants and sizes to suit more applications and user preferences

KEY BENEFITS:

- *Energy-efficient DC ECM blower*
- *ULPA filter (ISO Class 3 work-zone)*
- *Sentinel™ Gold microprocessor control system*
- *Isocide™ antimicrobial powder coating*
- *Standby mode for more energy savings*
- *Stable and self-compensating airflow*
- *Real-time airflow monitoring*
- *With fixed sash and sliding sash option
(for vertical models)*





Sentinel™ Gold Microprocessor Controller

- Displays all safety information on one screen
- Standby mode switch for more energy savings
- Programmable UV timer to extend the UV lamp lifespan



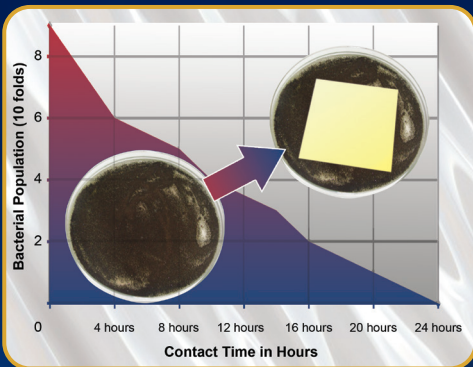
Ergonomic Control Panel Location

- Centered and angled down for an easy reach & viewing



Work Top

- Spill-retaining work top designed with a recessed central area to contain accidental liquid spills



Isocide™ Antimicrobial Coating

- Silver-ion impregnated powder coat
- Inhibits the microbial growth to improve safety



Guide to Models

LH - - - - -															
1st Placeholder Product Line	2nd Placeholder Flow		3rd Placeholder Side Wall		4th Placeholder Width		5th Placeholder Internal Height		6th Placeholder Control		7th Placeholder Window		8th Placeholder Electrical		
Laminar Flow	L	Horizontal	H	Tempered Glass	G	3 feet	3	2 feet	A	Sentinel™ Gold	G	Fixed	F	230 VAC, 50 / 60 Hz	8
				Stainless Steel	S	4 feet	4	2.5 feet	B					115 VAC, 50 / 60 Hz	9
						5 feet	5	3 feet	C						
						6 feet	6								
						8 feet	8								

Example Code: LHG-4BG-F8

Specifications: Laminar flow cabinet, horizontal, tempered glass side wall, 4 ft width, 2.5 ft internal height, Sentinel™ Gold microprocessor controller, Fixed window and 230 VAC, 50/60 Hz

Airflow Sensor

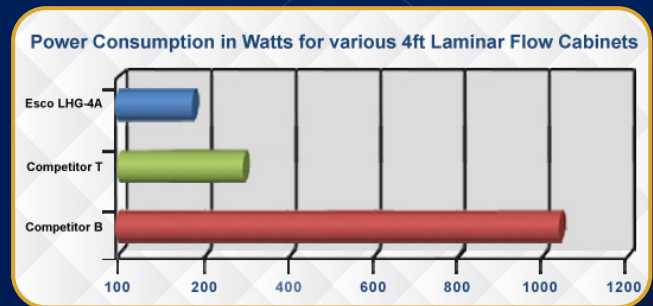
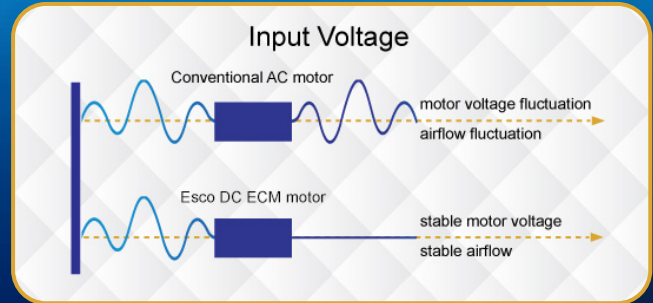
- Real-time airflow monitoring system
- Alerts the user if the airflow is insufficient

Energy-efficient DC ECM Blower

- Powered by the latest generation DC ECM that is more efficient than legacy ECM and VFD motors
- 70% energy savings compared to AC motor
- Stable airflow despite building voltage fluctuations & filter loading
- Standby mode that provides ISO Class 5 work-zone

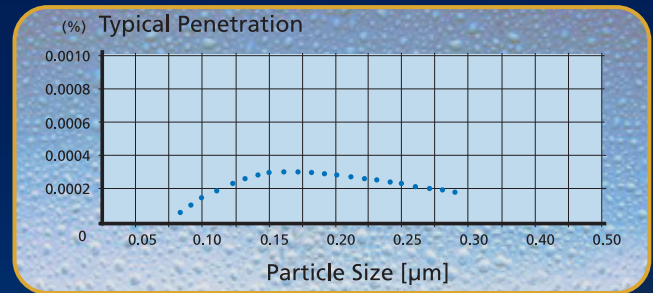


Airstream® Horizontal Laminar Flow Cabinet, LHG-4AG-F_



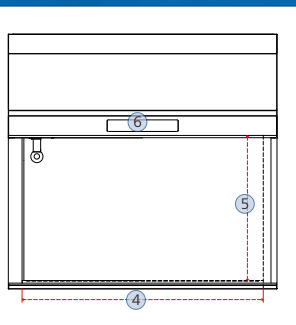
ULPA Filter

- 10x filtration efficiency than of HEPA filter, creates an ISO Class 3 work-zone instead of the industry-standard ISO Class 5
- 10x cleaner work-zone than cabinets with HEPA filter



Quiet Operation

- Comfortable low noise at 55 dBA
**LHG-4B in an open field condition*
- Reduces fatigue and improves work concentration



Standards Compliance	Cabinet Performance	Air Quality	Filtration	Electrical Safety
	IEST-RP-CC002.3, Worldwide	ISO 14644.1, Class 3, Worldwide AS 1386 Class 1.5, Australia JIS B9920, Class 3, Japan	EN-1822 (H14), Europe IEST-RP-CC001.3, Worldwide IEST-RP-CC007, Worldwide IEST-RP-CC034.1, Worldwide	IEC61010-1, Worldwide EN 61010-1, Europe UL61010-1, USA CAN/CSA-22.2, No.61010-1

Airflow Sensor

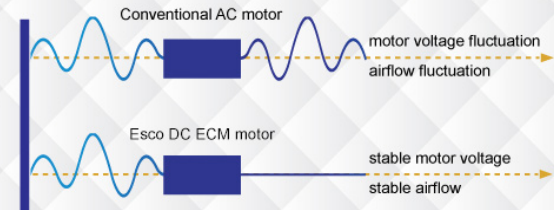
- Real-time airflow monitoring system
- Alerts the user if the airflow is insufficient

Energy-efficient DC ECM Blower

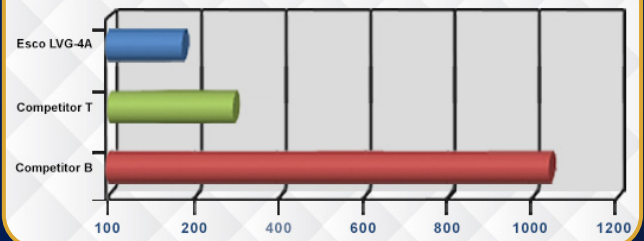
- Powered by the latest generation DC ECM that is more efficient than legacy ECM and VFD motors
- 70% energy savings compared to AC motor
- Stable airflow despite building voltage fluctuations & filter loading
- Standby mode that provides ISO Class 5 work-zone



Input Voltage



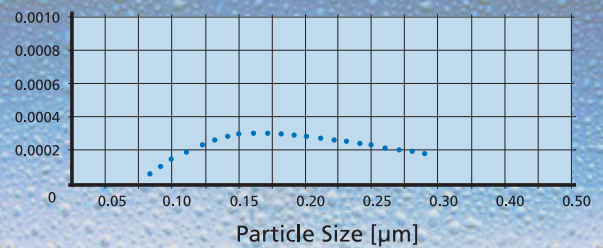
Power Consumption in Watts for various 4ft Laminar Flow Cabinets



ULPA Filter

- 10x filtration efficiency than of HEPA filter, creates ISO Class 3 work-zone instead of industry-standard ISO Class 5
- 10x cleaner work-zone than cabinets with HEPA filter

(%) Typical Penetration

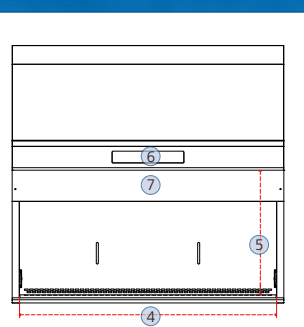


Sash Window Options

- Polycarbonate fixed sash
- Manual sliding sash made of UV-resistant tempered glass

Quiet Operation

- Comfortable low noise emission at 52 dBA
**LVG-4AG-F_ in an open field condition*
- Reduces fatigue and improves work concentration



Standards Compliance	Cabinet Performance	Air Quality	Filtration	Electrical Safety
	IEST-RP-CC002. 3, Worldwide	ISO 14644.1, Class 3, Worldwide AS 1386 Class 1.5, Australia JIS B9920, Class 3, Japan	EN-1822 (H14), Europe IEST-RP-CC001.3, Worldwide IEST-RP-CC007, Worldwide IEST-RP-CC034.1, Worldwide	IEC61010-1, Worldwide EN 61010-1, Europe UL61010-1, USA CAN/CSA-22.2, No.61010-1

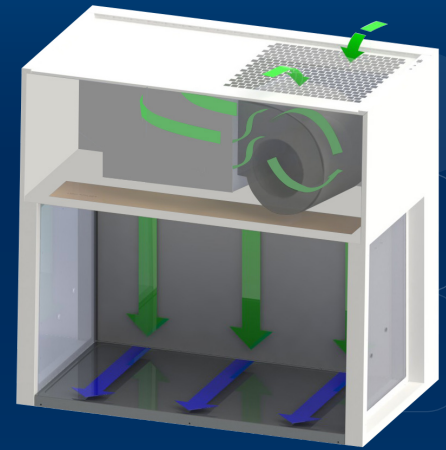
Airstream® Horizontal Laminar Flow Stainless Steel Side Wall Version



Cabinet Filtration System

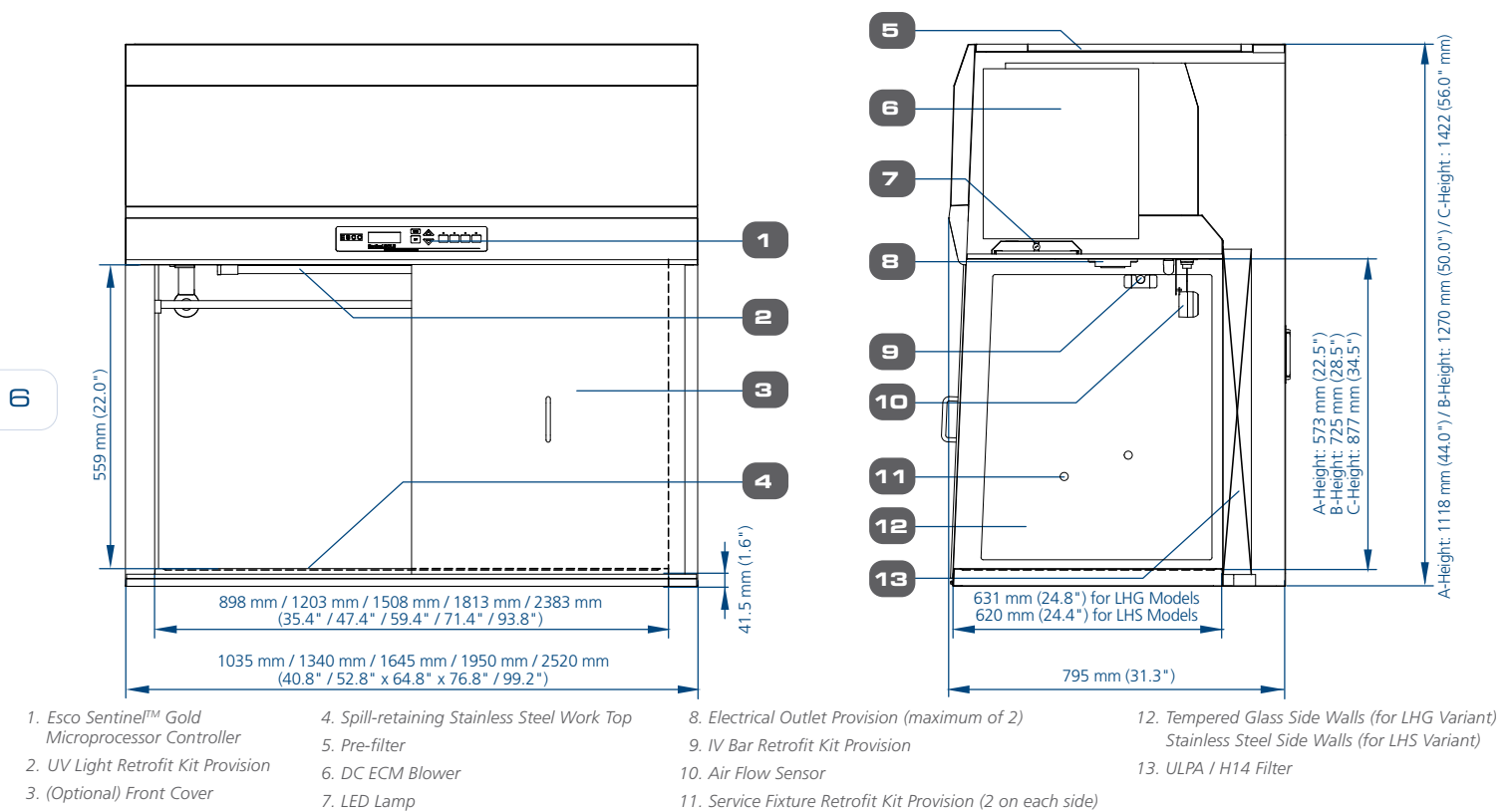
- Room air drawn in from the top of the cabinet through a disposable pre-filter with 85% arrestance, trapping larger particles and prolonging the life of the main filter.
- Air is forced evenly across the ULPA/H14 filter. The result is a stream of clean laminar air with the work-zone, diluting and flushing contaminants present in the interior. The purified air travels in a horizontal, unidirectional stream towards the open front of the cabinet.
- A nominal filter face velocity of 0.45 m/s or 90 fpm ensures that there is a sufficient number of air changes within the enclosed area of the cabinet to maintain the cleanliness.

Airflow Diagram



- ULPA-filtered air
- Room air / Inflow air

Airstream® Horizontal Laminar Flow Engineering Drawing



Esco Horizontal and Vertical Laminar Flow Cabinets Accessories

Model	3 feet Width	4 feet Width	5 feet Width	6 feet Width	8 feet Width	
UV Lamp	UV-15A-L 5170251		UV-30A-L 5170255		UV-30A-L *2	
Electrical Outlet	EO-					
IV Bar Horizontal Flow	IV-890 5170608	IV-1195 5170609	IV-1500 5170610	IV-1805 5170611	IV-2375 5170662	
IV Bar Vertical Flow	IV-960 5170603	IV-1265 5170604	IV-1570 5170605	IV-1875 5170606	IV-2445 5170607	
PVC Arm Rest	ME-W-REST 5170127					
Height-adjustable Lab Chair (Blue)	ME-LD-AR360 1150006					
Ergonomic Foot Rest	FT-REST 5170073					
Support Stand Telescoping with Castors (28" to 34")	STC-3A0 5130055	STC-4A0 5130056	STC-5A0 5130057	STC-6A0 5130058	STC-8A0 Gen2 5131146	
Support Stand Telescoping with Leveling Feet (28" to 34")	STL-3A0 5130050	STL-4A0 5130051	STL-5A0 5130052	STL-6A0 5130053	STL-8A0 Gen2 5131150	
Support Stand with Leveling Feet (28")	SAL-3A0 Gen2 5130170	SAL-4A0 Gen2 5130134	SAL-5A0 Gen2 5130171	SAL-6A0 Gen2 5130172	SAL-8A0 Gen2 5131124	
Support Stand with Leveling Feet (34")	SAL-3B0 Gen2 5130174	SAL-4B0 Gen2 5130175	SAL-5B0 Gen2 5130176	SAL-6B0 Gen2 5130177	SAL-8B0 Gen2 5131125	
Pre-filter	Horizontal	PF-4 5090003	PF-2 (2 pcs) 5090001	PF-3 and PF-4 5090002 and 5090003	PF-2 (3 pcs) 5090001 PF-4 (2 pcs) 5090003	PF-2 and PF-4 (2 pcs) 5090001 and 5090003
	Vertical					

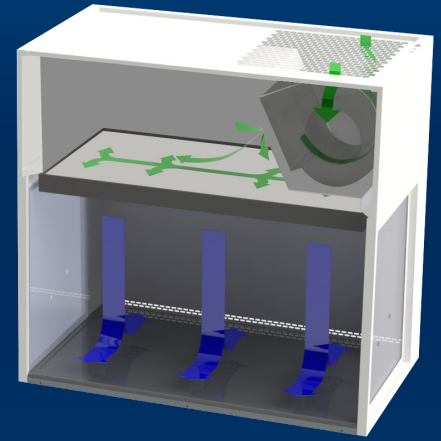
Airstream® Vertical Laminar Flow Stainless Steel Side Wall Version



Cabinet Filtration System

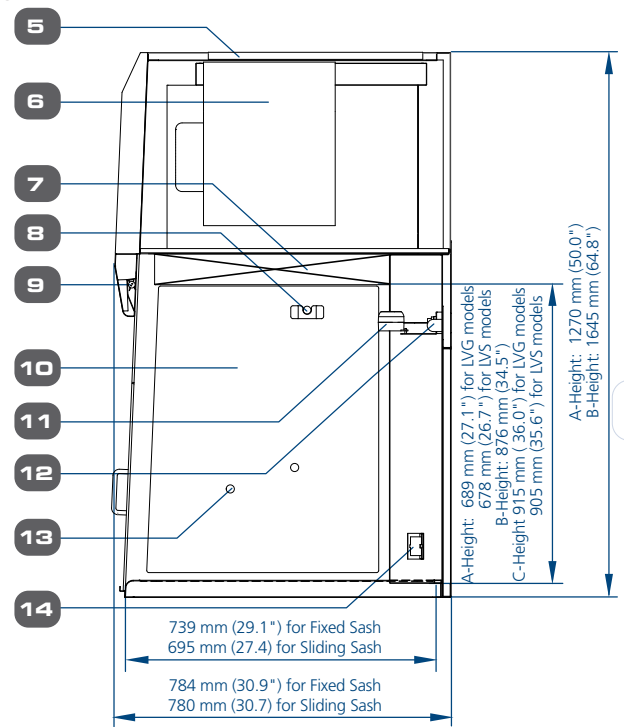
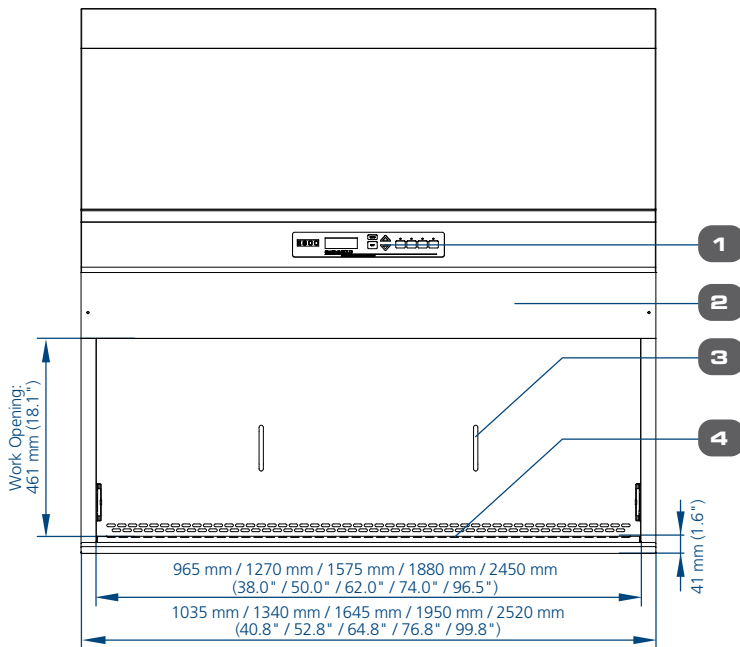
- Room air drawn in from the top of the cabinet through a disposable pre-filter with 85% arrestance, trapping larger particles and prolonging the life of the main filter.
- Air is forced evenly across the ULPA/H14 filter. The result is a stream of clean laminar air with the work-zone, diluting and flushing contaminants present in the interior. The purified air travels in a vertical, unidirectional stream towards the open front and back of the cabinet.
- A nominal filter face velocity of 0.45 m/s or 90 fpm ensures that there is a sufficient number of air changes within the enclosed area of the cabinet to maintain the cleanliness.

Airflow Diagram



- ULPA-filtered air
- Room air / Inflow air

Airstream® Vertical Laminar Flow Engineering Drawing



- Esco Sentinel™ Gold Microprocessor Control System / Simple Switches Control System
- Fixed Sash (LV_-F variant)
(Optional) Manual Sliding Sash (LV_-S variant)
- Optional Front Cover
- Stainless Steel Work Top
- Pre-filter
- DC ECM Blower (Self-compensating and lower noise)
- ULPA filter
- UV Bar Retrofit Kit Provision
- LED Lamp
- Tempered Glass Side Walls (for LVG Variant)
Stainless Steel Side Walls (for LVS Variant)
- Airflow Sensor
- UV Lamp
- Service Fixture Retrofit Kit Provision (2 holes on each side)
- Electrical Outlet Retrofit Kit provision (1 outlet on each side)

Esco Horizontal and Vertical Laminar Flow Cabinets Front Cover

	3 feet	4 feet	5 feet	6 feet	8 feet
LHG / LHS	FC-LHG / LHS-3A 5170601	FC-LHG / LHS-4A 5170602	FC-LHG / LHS-5A 5170585	FC-LHG / LHS-6A 5170586	
	FC-LHG / LHS-3B 5170587	FC-LHG / LHS-4B 5170588	FC-LHG / LHS-5B 5170589	FC-LHG / LHS-6B 5170590	
	FC-LHG / LHS-3C 5170627	FC-LHG / LHS-4C 5170591		FC-LHG / LHS-6C 5170592	FC-LHG / LHS-8C 5170593
LVG / LVS	FC-LVG / LVS-3A 5170595	FC-LVG / LVS-4A 5170584	FC-LVG / LVS-5A 5170596	FC-LVG / LVS-6A 5170597	
		FC-LVG / LVS-4C 5170598	FC-LVG / LVS-5C 5170061	FC-LVG / LVS-6C 5170599	FC-LVG / LVS-8C 5170600

**General Specifications, Airstream® Vertical Laminar Flow Cabinets, A-Height (Interior Height: 2.25 ft / 0.7 m)
with Sentinel™ Gold Microprocessor Control System**

Stainless Steel Sides		LVS-3AG-F8 2120381	LVS-4AG-F8 2120382	LVS-5AG-F8 2120383	LVS-6AG-F8 2120384
		LVS-3AG-S8 2120796	LVS-4AG-S8 2120759	LVS-5AG-S8 2120766	LVS-6AG-S8 2120760
		LVS-3AG-F9 2120443	LVS-4AG-F9 2120445	LVS-5AG-F9 2120447	LVS-6AG-F9 2120449
		LVS-3AG-S9 2120797	LVS-4AG-S9 2120762	LVS-5AG-S9 2120767	LVS-6AG-S9 2120764
Glass Sides		LVG-3AG-F8 2120374	LVG-4AG-F8 2120369	LVG-5AG-F8 2120375	LVG-6AG-F8 2120407
		LVG-3AG-S8 2120792	LVG-4AG-S8 2120701	LVG-5AG-S8 2120755	LVG-6AG-S8 2120703
		LVG-3AG-F9 2120435	LVG-4AG-F9 2120437	LVG-5AG-F9 2120439	LVG-6AG-F9 2120441
		LVG-3AG-S9 2120795	LVG-4AG-S9 2120761	LVG-5AG-S9 2120768	LVG-6AG-S9 2120763
Nominal Size		0.9 meter (3')	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')
External Dimensions without Base Stand (W x D x H)	Fixed Sash Models	1035 x 784 x 1270 mm (40.8" x 30.9" x 50.0")	1340 x 784 x 1270 mm (52.8" x 30.9" x 50.0")	1645 x 784 x 1270 mm (64.8" x 30.9" x 50.0")	1950 x 784 x 1270 mm (76.8" x 30.9" x 50.0")
	Sliding Sash Models	1035 x 780 x 1270 mm (40.8" x 30.7" x 50.0")	1340 x 780 x 1270 mm (52.8" x 30.7" x 50.0")	1645 x 780 x 1270 mm (64.8" x 30.7" x 50.0)	1950 x 780 x 1270 mm (76.8" x 30.7" x 50.0")
Internal Work Area, Dimensions (W x D x H)	LVG Models (Fixed Sash)	965 x 739 x 689 mm (38.0" x 29.1" x 27.1")	1270 x 739 x 689 mm (50.0" x 29.1" x 27.1")	1575 x 739 x 689 mm (62.0" x 29.1" x 27.1")	1880 x 739 x 689 mm (74.0" x 29.1" x 27.1")
	LVG Models (Sliding Sash)	965 x 695 x 689 mm (38.0" x 27.0" x 27.1")	1270 x 695 x 689 mm (50.0" x 27.0" x 27.1")	1575 x 695 x 689 mm (62.0" x 27.3" x 27.1")	1880 x 695 x 689 mm (74.0" x 27" x 27.1")
	LVS Models (Fixed Sash)	965 x 739 x 678 mm (38.0" x 29.1" x 26.7")	1270 x 739 x 678 mm (50.0" x 29.1" x 26.7")	1575 x 739 x 678 mm (62.0" x 29.1" x 26.7")	1880 x 739 x 678 mm (74.0" x 29.1" x 26.7")
	LVS Models (Sliding Sash)	965 x 695 x 678 mm (38.0" x 27.0" x 26.7")	1270 x 695 x 678 mm (50.0" x 27.0" x 26.7")	1575 x 695 x 678 mm (62.0" x 27.3" x 26.7")	1880 x 695 x 678 mm (74.0" x 27" x 26.7")
Internal Work Area, Space		0.6 m ² (6.5 ft ²)	0.8 m ² (8.6 ft ²)	1.0 m ² (10.7 ft ²)	1.3 m ² (14.0 ft ²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint			
Air Volume		1117 m ³ /hr (657 cfm)	1471 m ³ /hr (866 cfm)	1824 m ³ /hr (1074 cfm)	2177 m ³ /hr (1281 cfm)
ULPA Filter Typical Efficiency		> 99.999% at particle size between 0.1 to 0.3 µm			
Sound Emission per IEST-RP-CC002.2*		51.6 dBA	52.4 dBA	55.6 dBA	57.6 dBA
LED Lamp Intensity at Zero Ambient		800-1000 Lux (74.3 -93 ft.cd)			
Cabinet Construction	Main Body	1.2 mm (0.05") 18-gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish			
	Work Zone	1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish			
	Side Walls	LVS Models: 1.2 mm (0.05") 18 gauge stainless steel, grade 304, with 4B finish			
		LVG Models: UV Resistant tempered glass, 5 mm (0.2"), colorless and transparent			
Sash Window	Fixed Sash: 5 mm (0.2") UV Resistant Polycarbonate Sash with 461 mm (18.1") opening				
	Manual Sliding Sash: 5 mm (0.2") UV Resistant Tempered Glass with counter-balance system and ergonomic handle				
Electrical Power Rating 8: 220-240 VAC, 50 / 60 Hz, 1 phase	Cabinet Full Load Amps (FLA)	7.3 A	7.5 A	7.8 A	8.5 A
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	129	151	199	258
	Heat Rejected, BTU per Hour	440	515	679	880
Electrical Power Rating 9: 110-130 VAC, 50 / 60 Hz, 1 phase	Cabinet Full Load Amps (FLA)	12 A	12.5 A	13.3 A	13.5 A
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	132	155	204	264
	Heat Rejected, BTU per Hour	450	529	696	908
Net Weight**		135 Kg (298 lbs)	158 Kg (348 lbs)	199 Kg (438 lbs)	208 Kg (459 lbs)
Shipping Weight**		167 Kg (368 lbs)	202 Kg (445 lbs)	256 Kg (564 lbs)	273 Kg (602 lbs)
Shipping Dimensions, Maximum (W x D x H)**		1120 x 900 x 1590 mm (44" x 35" x 62")	1400 x 900 x 1590 mm (55" x 35" x 62")	1720 x 900 x 1590 mm (68" x 35" x 62")	2200 x 900 x 1590 mm (87" x 35" x 62")
Shipping Volume, Maximum**		1.6 m ³ (56.6 ft ³)	2.0 m ³ (70.6 ft ³)	2.5 m ³ (88.2 ft ³)	3.3 m ³ (116.5 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 dBA above these values.

**Cabinet only, excludes optional stand.

General Specifications, Airstream® Horizontal Laminar Flow Cabinets, A-Height (Interior Height: 2 ft / 0.6 m)

Stainless Steel Sides		LHS-3AG-F8 2120377	LHS-4AG-F8 2120378	LHS-5AG-F8 2120379	LHS-6AG-F8 2120380
		LHS-3AG-F9 2120425	LHS-4AG-F9 2120427	LHS-5AG-F9 2120429	LHS-6AG-F9 2120431
Glass Sides		LHG-3AG-F8 2120387	LHG-4AG-F8 2120368	LHG-5AG-F8 2120372	LHG-6AG-F8 2120373
		LHG-3AG-F9 2120417	LHG-4AG-F9 2120419	LHG-5AG-F9 2120421	LHG-6AG-F9 2120423
Nominal Size		0.9 meter (3')	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')
External Dimensions (W x D x H)	Without Base Stand	1035 x 795 x 1118 mm (40.8" x 31.3" x 44.0")	1340 x 795 x 1118 mm (52.8" x 31.3" x 44.0")	1645 x 795 x 1118 mm (64.8" x 31.3" x 44.0")	1950 x 795 x 1118 mm (76.8" x 31.3" x 44.0")
	Internal Work Area, Dimensions (W x D x H)	LHG Models	898 x 631 x 573 mm (35.4" x 24.8" x 22.5")	1203 x 631 x 573 mm (47.4" x 24.8" x 22.5")	1508 x 631 x 573 mm (59.4" x 24.8" x 22.5")
LHS Models		898 x 620 x 573 mm (35.4" x 24.4" x 22.5")	1203 x 620 x 573 mm (47.4" x 24.4" x 22.5")	1508 x 620 x 573 mm (59.4" x 24.4" x 22.5")	1813 x 620 x 573 mm (71.4" x 24.4" x 22.5")
Internal Work Area, Space		0.5 m ² (5.4 ft ²)	0.7 m ² (7.5 ft ²)	0.9 m ² (9.6 ft ²)	1.0 m ² (10.8 ft ²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint			
Air Volume		834 m ³ /hr (491 cfm)	1117 m ³ /hr (657 cfm)	1400 m ³ /hr (824 cfm)	1683 m ³ /hr (911 cfm)
ULPA Filter Typical Efficiency		> 99.999% at particle size between 0.1 to 0.3 µm			
Sound Emission per IEST-RP-CC002.2*		53.2 dBA	55.8 dBA	58.4 dBA	60.0 dBA
LED Lamp Intensity at Zero Ambient		800-1000 Lux (74.3 -93 ft.cd)			
Cabinet Construction	Main Body	1.2 mm (0.05") 18-gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish			
	Work Zone	1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish			
	Side Walls	LHS Models: 1.2 mm (0.05") 18 gauge stainless steel, grade 304, with 4B finish LHG Models: UV absorbing tempered glass, 5 mm (0.2"), colorless and transparent			
Electrical Power Rating 8: 220-240 VAC, 50 / 60 Hz, 1 phase	Cabinet Full Load Amps (FLA)	7 A	7.3 A	7.6 A	8 A
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	140	171	211	249
	Heat Rejected, BTU per Hour	478	583	720	850
Electrical Power Rating 9: 110-130 VAC, 50 / 60 Hz, 1 phase	Cabinet Full Load Amps (FLA)	11.3 A	11.4 A	11.4 A	11.5 A
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	144	175	216	255
	Heat Rejected, BTU per Hour	491	597	737	870
Net Weight**		100 Kg (220 lbs)	145 Kg (320 lbs)	167 Kg (368 lbs)	212 Kg (467 lbs)
Shipping Weight**		132 Kg (291 lbs)	200 Kg (440 lbs)	224 Kg (494 lbs)	277 Kg (611 lbs)
Shipping Dimensions, Maximum (W x D x H)**		1120 x 900 x 1590 mm (44" x 35" x 62")	1400 x 900 x 1590 mm (55" x 35" x 62")	1720 x 900 x 1590 mm (68" x 35" x 62")	2200 x 900 x 1590 mm (87" x 35" x 62")
Shipping Volume, Maximum**		1.6 m ³ (56.6 ft ³)	2.0 m ³ (70.6 ft ³)	2.5 m ³ (88.2 ft ³)	3.3 m ³ (116.5 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 dBA above these values.

**Cabinet only, excludes optional stand.

General Specifications, Airstream® Horizontal Laminar Flow Cabinets, B-Height (Interior Height: 2.5 ft / 0.8 m)

		LHS-3BG-F8 2120463	LHS-4BG-F8 2120465	LHS-5BG-F8 2120467	LHS-6BG-F8 2120469
Stainless Steel Sides		LHS-3BG-F9 2120503	LHS-4BG-F9 2120505	LHS-5BG-F9 2120507	LHS-6BG-F9 2120509
		LHG-3BG-F8 2120453	LHG-4BG-F8 2120455	LHG-5BG-F8 2120457	LHG-6BG-F8 2120459
Glass Sides		LHG-3BG-F9 2120493	LHG-4BG-F9 2120495	LHG-5BG-F9 2120497	LHG-6BG-F9 2120499
	Nominal Size	0.9 meter (3')	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')
External Dimensions (W x D x H)	Without Base Stand	1035 x 788 x 1270 mm (40.8" x 31.0" x 50.0")	1340 x 788 x 1270 mm (52.8" x 31.0" x 50.0")	1645 x 788 x 1270 mm (64.8" x 31.0" x 50.0")	1950 x 788 x 1270 mm (76.8" x 31.0" x 50.0")
	Internal Work Area, Dimensions (W x D x H)	LHG Models	898 x 620 x 725 mm (35.4" x 24.4" x 28.5")	1203 x 620 x 725 mm (47.4" x 24.4" x 28.5")	1508 x 620 x 725 mm (59.4" x 24.4" x 28.5")
LHS Models		898 x 620 x 725 mm (35.4" x 24.4" x 28.5")	1203 x 620 x 725 mm (47.4" x 24.4" x 28.5")	1508 x 620 x 725 mm (59.4" x 24.4" x 28.5")	1813 x 620 x 725 mm (71.4" x 24.4" x 28.5")
Internal Work Area, Space		0.5 m ² (5.4 ft ²)	0.7 m ² (7.5 ft ²)	0.9 m ² (9.6 ft ²)	1.0 m ² (10.8 ft ²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint			
Air Volume		1055 m ³ /hr (621 cfm)	1413 m ³ /hr (832 cfm)	1771 m ³ /hr (1042 cfm)	2129 m ³ /hr (1253 cfm)
ULPA Filter Typical Efficiency		> 99.999% at particle size between 0.1 to 0.3 µm			
Sound Emission per IEST-RP-CC002.2*		52.8 dBA	55.4 dBA	58.0 dBA	59.6 dBA
LED Lamp Intensity at Zero Ambient		800-1000 Lux (74.3 -93 ft.cd)			
Cabinet Construction	Main Body	1.2 mm (0.05") 18-gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish			
	Work Zone	1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish			
	Side Walls	LHS Models: 1.2 mm (0.05") 18 gauge stainless steel, grade 304, with 4B finish LHG Models: UV absorbing tempered glass, 5 mm (0.2"), colorless and transparent			
Electrical Power Rating 8: 220-240 VAC, 50 / 60 Hz, 1 phase	Cabinet Full Load Amps (FLA)	7 A	7.3 A	7.6 A	8 A and 3 A (2 Power Inlet)
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	160	207	255	302
	Heat Rejected, BTU per Hour	546	702	870	1030
Electrical Power Rating 9: 110-130 VAC, 50 / 60 Hz, 1 phase	Cabinet Full Load Amps (FLA)	11.3 A	11.4 A	11.4 A	11.5 A and 6.5 A (2 Power Inlet)
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	163	211	260	308
	Heat Rejected, BTU per Hour	556	720	887	1051
Net Weight**		108 Kg (238 lbs)	156 Kg (344 lbs)	180 Kg (397 lbs)	228 Kg (503 lbs)
Shipping Weight**		140 Kg (308 lbs)	200 Kg (441 lbs)	237 Kg (522 lbs)	293 Kg (646 lbs)
Shipping Dimensions, Maximum (W x D x H)**		1120 x 900 x 1590 mm (44" x 35" x 62")	1400 x 900 x 1590 mm (55" x 35" x 62")	1720 x 900 x 1590 mm (68" x 35" x 62")	2200 x 900 x 1590 mm (87" x 35" x 62")
Shipping Volume, Maximum**		1.6 m ³ (56.6 ft ³)	2.0 m ³ (70.6 ft ³)	2.5 m ³ (88.2 ft ³)	3.3 m ³ (116.5 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 dBA above these values.

**Cabinet only, excludes optional stand.

General Specifications, Airstream® Horizontal and Vertical Laminar Flow Cabinets, C-Height (Interior Height: 3 ft / 0.9 m)

Model	Nominal Size	External Dimension (W x D x H)	Internal Dimension (W x D x H)	Sound Emission per IEST-RP-CC002.2*	LED Lamp Intensity at Zero Ambient	Cabinet Full Load Amps (FLA)	Cabinet Nominal Power (W)	Heat Rejected, BTU per Hour	Shipping Weight**	Shipping Dimensions, Maximum (W x D x H)**	Shipping Volume, Maximum**
VERTICAL LAMINAR FLOW (Power Rating 8: 220-240 VAC, 50 / 60 Hz, 1 phase)											
LVS-4CG-F8 2120565	4 ft (1.2 m)	1340 x 774 x 1645 mm (52.8" x 30.5" x 64.8")	1270 x 739 x 905 mm (50.0" x 29.1" x 35.6")	52.5 dBA	800-1000 Lux (74.3 -93 ft.cd)	7.5 A	213	727	243 Kg (536 lbs)	1490 x 900 x 1750 mm (58.7" x 35.4" x 68.9")	2.3 m³ (81.2 ft³)
LVS-6CG-F8 2120569	6 ft (1.8 m)	1950 x 774 x 1645 mm (76.8" x 30.5" x 64.8")	1880 x 739 x 905 mm (74.0" x 29.1" x 35.6")	53.2 dBA		8.5 A	392	1337	330 Kg (661 lbs)	2070 x 900 x 1750 mm (81.5" x 35.4" x 68.9")	3.3 m³ (116.5 ft³)
LVS-8CG-F8 2120686	8 ft (2.4 m)	2520 x 774 x 1645 mm (99.2" x 30.5" x 64.8")	2450 x 739 x 905 mm (96.5" x 29.1" x 35.6")	59.8 dBA		8.5 A and 3.5 A	422	1446	455 Kg (1003 lbs)	2720 x 950 x 1750 mm (107" x 37.4" x 68.9")	4.5 m³ (158.9 ft³)
LVG-4CG-F8 2120555	4 ft (1.2 m)	1340 x 774 x 1645 mm (52.8" x 30.5" x 64.8")	1270 x 739 x 915 mm (50.0" x 29.1" x 36.0")	52.5 dBA		7.5 A	213	727	243 Kg (536 lbs)	1490 x 900 x 1750 mm (58.7" x 35.4" x 68.9")	2.3 m³ (81.2 ft³)
LVG-6CG-F8 2120559	6 ft (1.8 m)	1950 x 774 x 1645 mm (76.8" x 30.5" x 64.8")	1880 x 739 x 915 mm (74.0" x 29.1" x 36.0")	53.2 dBA		8.5 A	392	1337	330 Kg (661 lbs)	2070 x 900 x 1750 mm (81.5" x 35.4" x 68.9")	3.3 m³ (116.5 ft³)
VERTICAL LAMINAR FLOW (Power Rating 9: 110-130 VAC, 50 / 60 Hz, 1 phase)											
LVS-4CG-F9 2120605	4 ft (1.2 m)	1340 x 774 x 1645 mm (52.8" x 30.5" x 64.8")	1270 x 739 x 905 mm (50.0" x 29.1" x 35.6")	52.5 dBA	800-1000 Lux (74.3 -93 ft.cd)	11.5 A	217	741	243 Kg (536 lbs)	1490 x 900 x 1750 mm (58.7" x 35.4" x 68.9")	2.3 m³ (81.2 ft³)
LVS-6CG-F9 2120609	6 ft (1.8 m)	1950 x 774 x 1645 mm (76.8" x 30.5" x 64.8")	1880 x 739 x 905 mm (74.0" x 29.1" x 35.6")	53.2 dBA		13.5 A	400	1365	330 Kg (661 lbs)	2070 x 900 x 1750 mm (82" x 35.4" x 68.9")	3.3 m³ (116.5 ft³)
LVS-8CG-F9 2120687	8 ft (2.4 m)	2520 x 774 x 1645 mm (99.2" x 30.5" x 64.8")	2450 x 739 x 905 mm (96.5" x 29.1" x 35.6")	59.8 dBA		14 A and 8A	434	1481	455 Kg (1003 lbs)	2720 x 950 x 1750 mm (107" x 37.4" x 68.9")	4.5 m³ (158.9 ft³)
LVG-4CG-F9 2120595	4 ft (1.2 m)	1340 x 774 x 1645 mm (52.8" x 30.5" x 64.8")	1270 x 739 x 915 mm (50.0" x 29.1" x 36.0")	52.5 dBA		11.5 A	217	741	243 Kg (536 lbs)	1490 x 900 x 1750 mm (58.7" x 35.4" x 68.9")	2.3 m³ (81.2 ft³)
LVG-6CG-F9 2120599	6 ft (1.8 m)	1950 x 774 x 1645 mm (76.8" x 30.5" x 64.8")	1880 x 739 x 915 mm (74.0" x 29.1" x 36.0")	53.2 dBA		13.5 A	400	1365	330 Kg (661 lbs)	2070 x 900 x 1750 mm (81.5" x 35.4" x 68.9")	3.3 m³ (116.5 ft³)
HORIZONTAL LAMINAR FLOW (Power Rating 8: 220-240 VAC, 50 / 60 Hz, 1 phase)											
LHS-4CG-F8 2120545	4 ft (1.2 m)	1340 x 782 x 1422 mm (52.8" x 30.8" x 56.0")	1203 x 620 x 877 mm (47.4" x 24.4" x 34.5")	56.4 dBA	800-1000 Lux (74.3 -93 ft.cd)	7.3 A	246	840	222 Kg (489 lbs)	1400 x 900 x 1590 mm (55.1" x 35.4" x 62.5")	2.0 m³ (70.6 ft³)
LHS-6CG-F8 2120549	6 ft (1.8 m)	1950 x 782 x 1422 mm (76.8" x 30.8" x 56.0")	1813 x 620 x 877 mm (71.4" x 24.4" x 34.5")	59.4 dBA		8 A and 3 A	359	1225	301 Kg (664 lbs)	2200 x 900 x 1590 mm (86.6" x 35.4" x 62.5")	3.3 m³ (116.5 ft³)
LHS-8CG-F8 2120704	8 ft (2.4 m)	2520 x 782 x 1422 mm (99.2" x 30.8" x 56.0")	2383 x 620 x 877 mm (93.8" x 24.4" x 34.5")	62.3 dBA		8.3 A and 3.3 A	388	1324	397 Kg (875 lbs)	2720 x 950 x 1590 mm (107.0" x 37.4" x 62.5")	4.1 m³ (144.8 ft³)
LHG-3CG-F8 2120533	3 ft (0.9 m)	1035 x 782 x 1422 mm (40.8" x 30.8" x 56.0")	898 x 631 x 877 mm (35.4" x 24.8" x 34.5")	54.2 dBA		7 A	190	648	147 Kg (324 lbs)	1120 x 900 x 1590 mm (44" x 35.4" x 62.5")	1.6 m³ (56.5 ft³)
LHG-4CG-F8 2120535	4 ft (1.2 m)	1340 x 782 x 1422 mm (52.8" x 30.8" x 56.0")	1203 x 631 x 877 mm (47.4" x 24.8" x 34.5")	56.4 dBA		7.3 A	246	840	222 Kg (489 lbs)	1400 x 900 x 1590 mm (55.1" x 35.4" x 62.5")	2.0 m³ (70.6 ft³)
LHG-6CG-F8 2120539	6 ft (1.8 m)	1950 x 782 x 1422 mm (76.8" x 30.8" x 56.0")	1813 x 631 x 877 mm (71.4" x 24.8" x 34.5")	59.4 dBA		8 A and 3 A	359	1225	301 Kg (664 lbs)	2200 x 900 x 1590 mm (86.6" x 35.4" x 62.5")	3.3 m³ (116.5 ft³)
LHG-8CG-F8 2120543	8 ft (2.4 m)	2520 x 782 x 1422 mm (99.2" x 30.8" x 56.0")	2383 x 631 x 877 mm (93.8" x 24.8" x 34.5")	62.3 dBA		8.3 A and 3.3 A	388	1324	397 Kg (875 lbs)	2720 x 950 x 1590 mm (107.0" x 37.4" x 62.5")	4.1 m³ (144.8 ft³)
HORIZONTAL LAMINAR FLOW (Power Rating 9: 110-130 VAC, 50 / 60 Hz, 1 phase)											
LHS-4CG-F9 2120585	4 ft (1.2 m)	1340 x 782 x 1422 mm (52.8" x 30.8" x 56.0")	1203 x 620 x 877 mm (47.4" x 24.4" x 34.5")	56.4 dBA	800-1000 Lux (74.3 -93 ft.cd)	11.4 A	250	853	222 Kg (489 lbs)	1400 x 900 x 1590 mm (55.1" x 35.4" x 62.5")	2.0 m³ (70.6 ft³)
LHS-6CG-F9 2120589	6 ft (1.8 m)	1950 x 782 x 1422 mm (76.8" x 30.8" x 56.0")	1813 x 620 x 877 mm (71.4" x 24.4" x 34.5")	59.4 dBA		11.5 A and 6.5 A	365	1245	301 Kg (664 lbs)	2200 x 900 x 1590 mm (86.6" x 35.4" x 62.5")	3.3 m³ (116.5 ft³)
LHS-8CG-F9 2120719	8 ft (2.4 m)	2520 x 782 x 1422 mm (99.2" x 30.8" x 56.0")	2383 x 620 x 877 mm (93.8" x 24.4" x 34.5")	62.3 dBA		12 A and 6 A	394	1344	397 Kg (875 lbs)	2720 x 950 x 1590 mm (107.0" x 37.4" x 62.5")	4.1 m³ (144.8 ft³)
LHG-3CG-F9 2120573	3 ft (0.9 m)	1035 x 782 x 1422 mm (40.8" x 30.8" x 56.0")	898 x 631 x 877 mm (35.4" x 24.8" x 34.5")	54.2 dBA		11.3 A	193	659	147 Kg (324 lbs)	1120 x 900 x 1590 mm (44" x 35.4" x 62.5")	1.6 m³ (56.5 ft³)
LHG-4CG-F9 2120575	4 ft (1.2 m)	1340 x 782 x 1422 mm (52.8" x 30.8" x 56.0")	1203 x 631 x 877 mm (47.4" x 24.8" x 34.5")	56.4 dBA		11.4 A	250	853	222 Kg (489 lbs)	1400 x 900 x 1590 mm (55.1" x 35.4" x 62.5")	2.0 m³ (70.6 ft³)
LHG-6CG-F9 2120579	6 ft (1.8 m)	1950 x 782 x 1422 mm (76.8" x 30.8" x 56.0")	1813 x 631 x 877 mm (71.4" x 24.8" x 34.5")	59.4 dBA		11.5 A and 6.5 A	365	1245	301 Kg (664 lbs)	2200 x 900 x 1590 mm (86.6" x 35.4" x 62.5")	3.3 m³ (116.5 ft³)
SPECIFICATIONS AVAILABLE FOR ALL MODELS AND SIZES											
Cabinet Construction	Main Body	1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish									
	Work Zone	1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish									
	Side Walls	LVG-LHG: UV absorbing tempered glass, 5 mm (0.2"), colorless and transparent LVS-LHS: 1.2 mm (0.05") 18 gauge stainless steel, grade 304, with 4B finish									
Average Airflow Velocity		0.45 m/s (90 fpm) at initial set point									
ULPA Filter Typical Efficiency		> 99.999% at particle size between 0.1 to 0.3 µm									
Electrical		Power Rating 8: 220-240 VAC, 50 / 60 Hz, 1 phase									
		Power Rating 9: 110-130 VAC, 50 / 60 Hz, 1 phase									

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 dBA above these values.

**Cabinet only, excludes optional stand.

Product Matrix with ordering Item Codes

Product Matrix				220-240 VAC, 50/60 Hz		Old Models	110-130 VAC, 50/60 Hz		Old Models	
Laminar Flow Cabinets	Vertical	Stainless Steel Sides	2.25 ft Internal Height	2120381	LVS-3AG-F8	LVC-3A1/3	2120443	LVS-3AG-F9	LVC-3A2	
				2120382	LVS-4AG-F8	LVC-4A1/3	2120445	LVS-4AG-F9	LVC-4A2	
				2120759	LVS-4AG-S8		2120762	LVS-4AG-S9		
				2120383	LVS-5AG-F8	LVC-5A1/3	2120447	LVS-5AG-F9	LVC-5A2	
				2120384	LVS-6AG-F8	LVC-6A1/3	2120449	LVS-6AG-F9	LVC-6A2	
				2120760	LVS-6AG-S8		2120764	LVS-6AG-S9		
			3 ft Internal Height	2120565	LVS-4CG-F8	LVC-4C1/3	2120605	LVS-4CG-F9	LVC-4C2	
		2120569		LVS-6CG-F8	LVC-6C1/3	2120609	LVS-6CG-F9	LVC-6C2		
		2120686		LVS-8CG-F8	LVC-8C1/3	2120687	LVS-8CG-F9	LVC-8C2		
		Glass Sides	2.25 ft Internal Height	2120374	LVG-3AG-F8	AVC-3D1/3	2120435	LVG-3AG-F9	AVC-3D2	
				2120369	LVG-4AG-F8	AVC-4D1/3	2120437	LVG-4AG-F9	AVC-4D2	
				2120701	LVG-4AG-S8		2120761	LVG-4AG-S9		
				2120375	LVG-5AG-F8	AVC-5D1/3	2120439	LVG-5AG-F9	AVC-5D2	
				2120380	LVG-6AG-F8	AVC-6D1/3	2120441	LVG-6AG-F9	AVC-6D2	
	2120703			LVG-6AG-S8		2120763	LVG-6AG-S9			
	3 ft Internal Height		2120555	LVG-4CG-F8	AVC-4C1/3	2120595	LVG-4CG-F9	AVC-4C2		
			2120559	LVG-6CG-F8	AVC-6C1/3	2120599	LVG-6CG-F9	AVC-6C2		
	Horizontal		Stainless Steel Sides	2 ft Internal Height	2120377	LHS-3AG-F8	LHC-3A1/3	2120425	LHS-3AG-F9	LHC-3A2
					2120378	LHS-4AG-F8	LHC-4A1/3	2120427	LHS-4AG-F9	LHC-4A2
		2120379			LHS-5AG-F8	LHC-5A1/3	2120429	LHS-5AG-F9	LHC-5A2	
		2120380			LHS-6AG-F8	LHC-6A1/3	2120431	LHS-6AG-F9	LHC-6A2	
		2.5 ft Internal Height		2120463	LHS-3BG-F8	LHC-3B1/3	2120503	LHS-3BG-F9	LHC-3B2	
				2120465	LHS-4BG-F8	LHC-4B1/3	2120505	LHS-4BG-F9	LHC-4B2	
				2120467	LHS-5BG-F8	LHC-5B1/3	2120507	LHS-5BG-F9	LHC-5B2	
				2120469	LHS-6BG-F8	LHC-6B1/3	2120509	LHS-6BG-F9	LHC-6B2	
		3 ft Internal Height		2120545	LHS-4CG-F8	LHC-4C1/3	2120585	LHS-4CG-F9	LHC-4C2	
				2120549	LHS-6CG-F8	LHC-6C1/3	2120589	LHS-6CG-F9	LHC-6C2	
				2120704	LHS-8CG-F8	LHC-8C1/3	2120719	LHS-8CG-F9	LHC-8C2	
		Glass Sides	2 ft Internal Height	2120387	LHG-3AG-F8	AHC-3D1/3	2120417	LHG-3AG-F9	AHC-3D2	
				2120368	LHG-4AG-F8	AHC-4D1/3	2120419	LHG-4AG-F9	AHC-4D2	
				2120372	LHG-5AG-F8	AHC-5D1/3	2120421	LHG-5AG-F9	AHC-5D2	
				2120373	LHG-6AG-F8	AHC-6D1/3	2120423	LHG-6AG-F9	AHC-6D2	
			2.5 ft Internal Height	2120453	LHG-3BG-F8	AHC-3B1/3	2120493	LHG-3BG-F9	AHC-3B2	
				2120455	LHG-4BG-F8	AHC-4B1/3	2120495	LHG-4BG-F9	AHC-4B2	
				2120457	LHG-5BG-F8	AHC-5B1/3	2120497	LHG-5BG-F9	AHC-5B2	
				2120459	LHG-6BG-F8	AHC-6B1/3	2120499	LHG-6BG-F9	AHC-6B2	
			3 ft Internal Height	2120533	LHG-3CG-F8	AHC-3C1/3	2120573	LHG-3CG-F9	AHC-3C2	
				2120535	LHG-4CG-F8	AHC-4C1/3	2120575	LHG-4CG-F9	AHC-4C2	
				2120539	LHG-6CG-F8	AHC-6C1/3	2120579	LHG-6CG-F9	AHC-6C2	



LIFESCIENCES GROUP

Esco Micro Pte. Ltd. • 19 Changi South Street 1 • Singapore 486777

Tel +65 6542 0833 • mail@escolifesciences.com

www.escolifesciences.com

Esco Technologies, Inc. • 903 Sheehy Drive, Suite F, Horsham, PA 19044, USA

Tel: +1 215-441-9661 • eti.admin@escolifesciences.com

Esco Lifesciences Group Offices: Bangladesh | China | Denmark | Germany | Hong Kong | India | Indonesia | Italy | Japan | Lithuania | Malaysia | Myanmar | Philippines | Russia | Singapore | South Africa | South Korea | Taiwan | Thailand | UAE | UK | USA | Vietnam