ESCO LIFESCIENCES



UL 61010

*Airstream® Gen 3 Laminar Flow Cabinet, Model LHG-4AG-F_*



UL 61010

*Airstream® Gen 3 Vertical Laminar Cabinet, Model LVG-4AG-S_*

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

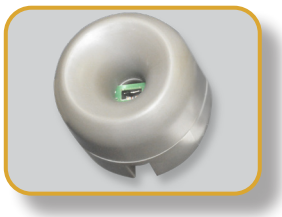
KEY BENEFITS:

- ***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)***



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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*



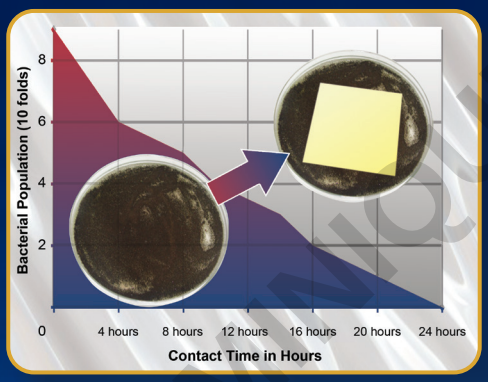
Ergonomic Control Panel Location

- *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*



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Guide to Models

L H - - -

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*

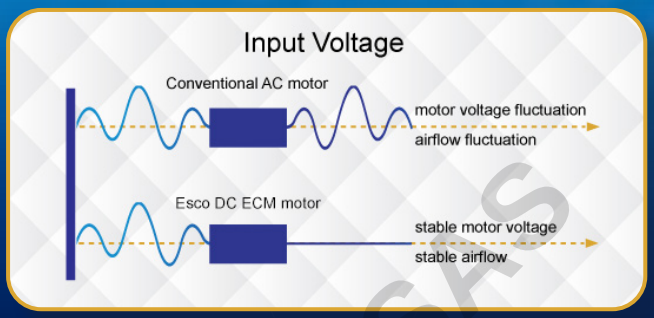
Energy-efficient DC ECM Blower

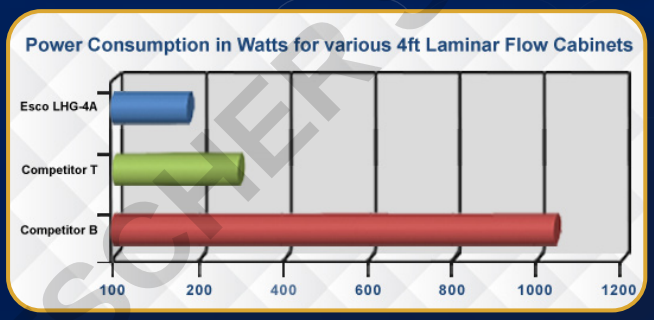
- *Powered by the latest generation DC ECM that is more efficient than legacy ECM and VFD motors*
- *70% energy savings compared to AC motor*
- *Stable airflow despite building voltage fluctuations & filter loading*
- *Standby mode that provides ISO Class 5 work-zone*





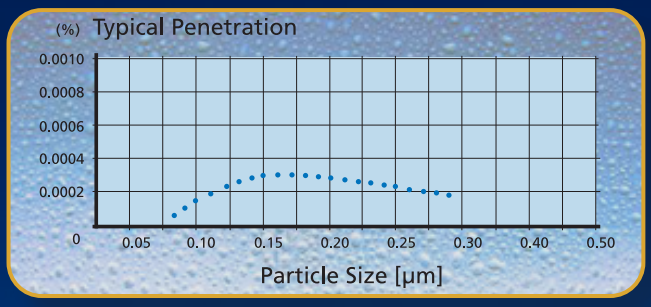
*Airstream® Horizontal Laminar Flow Cabinet, LHG-4AG-F_*





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*



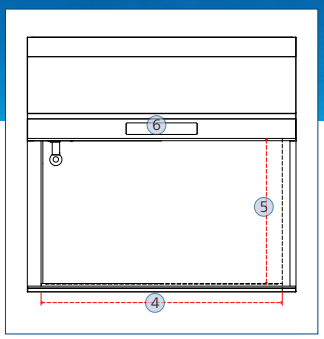
Quiet Operation

- *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

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Rocker Switches

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

Note: Rocker switch models are available in USA only





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*



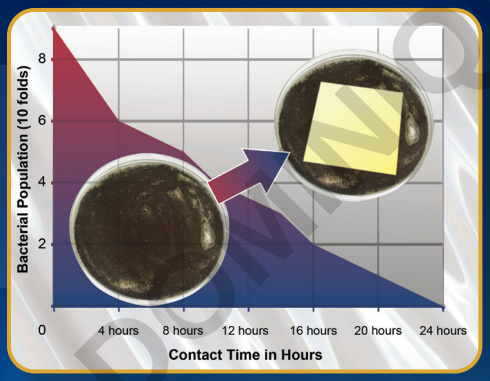
Ergonomic Control Panel Location

- *Centered and angled down for an easy reach & viewing*



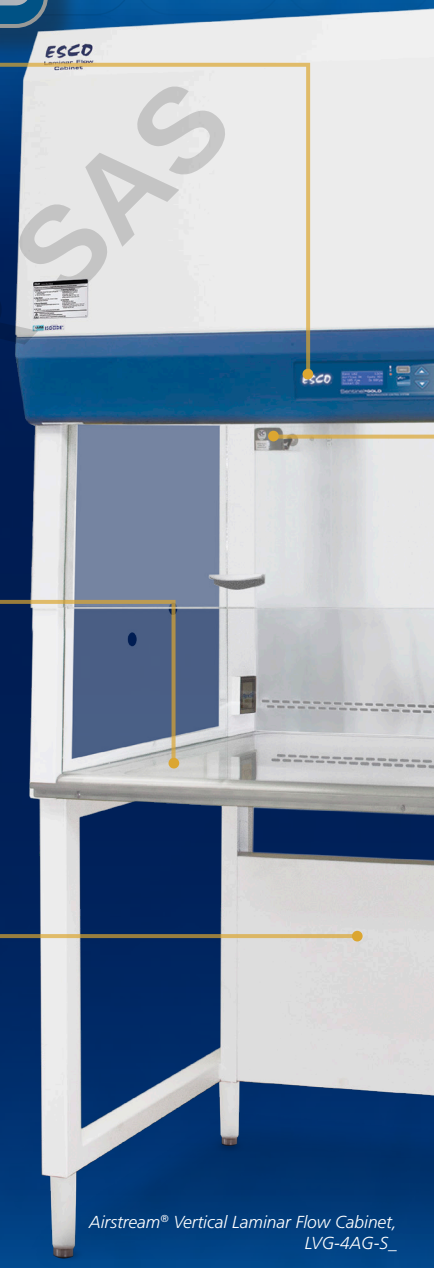
Work Top

- *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*



*Airstream® Vertical Laminar Flow Cabinet, LVG-4AG-S_*

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Guide to Models

LV - - -

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**	Vertical	**V**	Tempered Glass	**G**	3 feet	**3**	2.25 feet	**A**	Sentinel™ Gold	**G**	Fixed Sash	**F**	230 VAC, 50 / 60 Hz	**8**
				Stainless Steel	**S**	4 feet	**4**	3 feet	**C**	Rocker Switches	**S**	Sliding Sash	**S**	115 VAC, 50 / 60 Hz	**9**
						5 feet	**5**								
						6 feet	**6**								
						8 feet	**8**								

Airflow Sensor

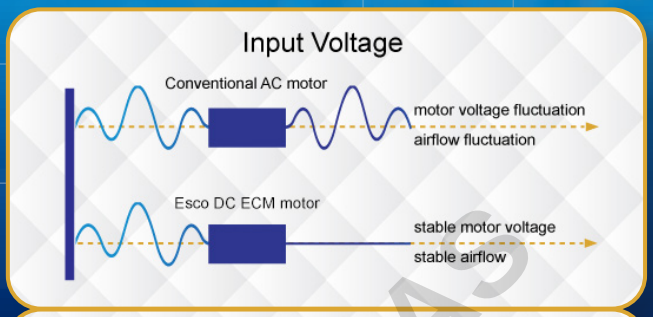
- *Real-time airflow monitoring system*
- *Alerts the user if the airflow is insufficient*

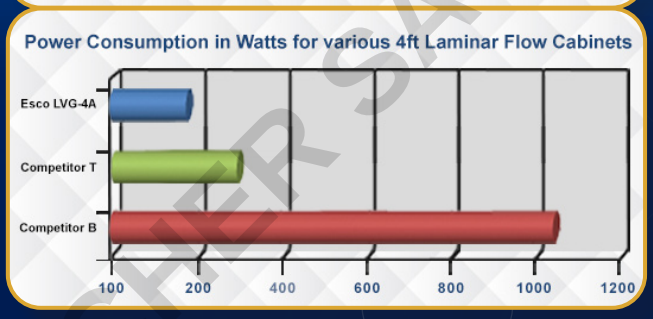
Energy-efficient DC ECM Blower

- *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*



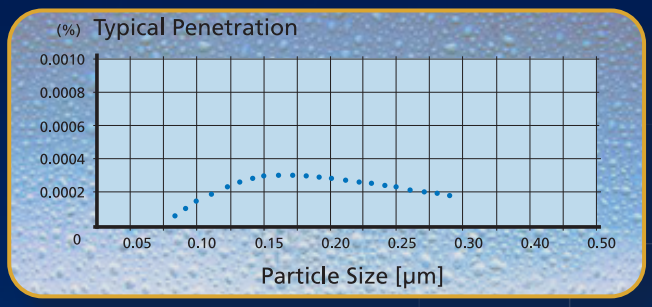






ULPA Filter

- *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*



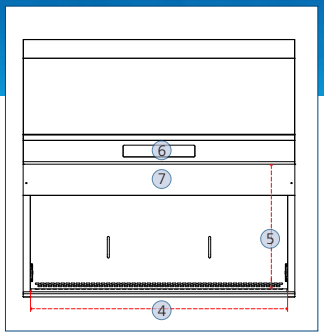
Sash Window Options

- *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

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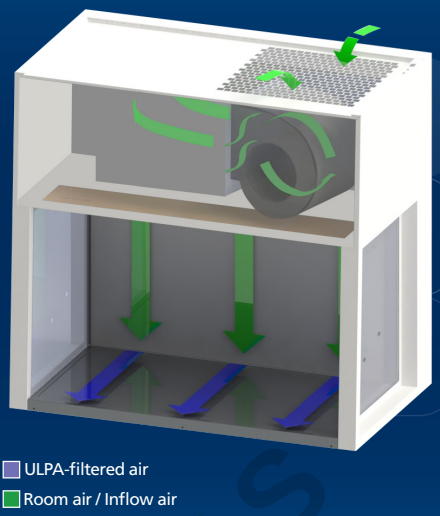
Airstream® Horizontal Laminar Flow Stainless Steel Side Wall Version



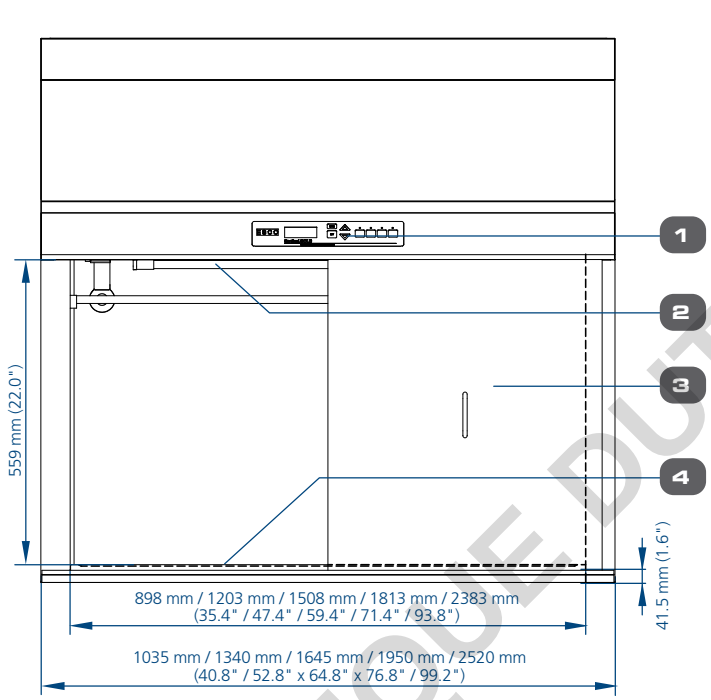
Cabinet Filtration System

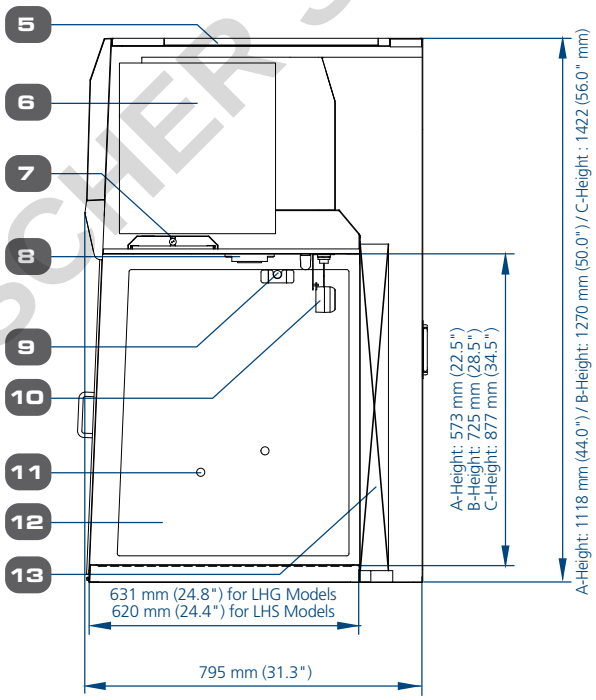
- Room air drawn in from the top of the cabinet through a disposable pre-filter with 85% arrestance, trapping larger particles and prolonging the life of the main filter.
- Air is forced evenly across the ULPA/H14 filter. The result is a stream of clean laminar air with the work-zone, diluting and flushing 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



Airstream® Horizontal Laminar Flow Engineering Drawing





1. *Esco Sentinel™ Gold Microprocessor Controller*
2. *UV Light Retrofit Kit Provision*
3. *(Optional) Front Cover*
4. *Spill-retaining Stainless Steel Work Top*
5. *Pre-filter*
6. *DC ECM Blower*
7. *LED Lamp*
8. *Electrical Outlet Provision (maximum of 2)*
9. *IV Bar Retrofit Kit Provision*
10. *Air Flow Sensor*
11. *Service Fixture Retrofit Kit Provision (2 on each side)*
12. *Tempered Glass Side Walls (for LHG Variant) Stainless Steel Side Walls (for LHS Variant)*
13. *ULPA / H14 Filter*

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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-2 and PF-4 (2 pcs) 5090001 and 5090003
	Vertical				PF-4 (2 pcs) 5090003	

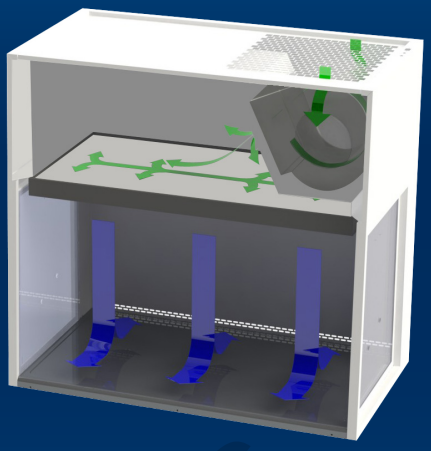
Airstream® Vertical Laminar Flow Stainless Steel Side Wall Version



Cabinet Filtration System

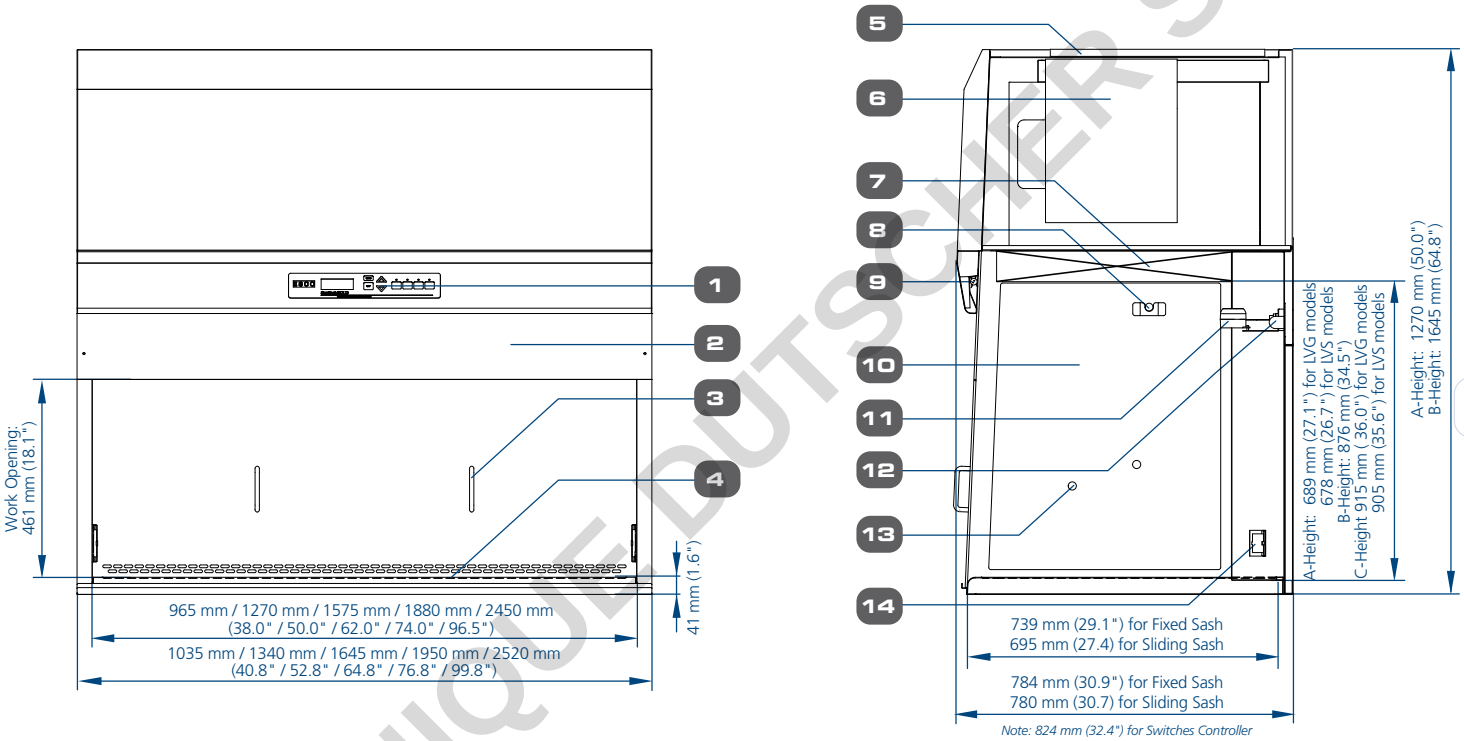
- Room air drawn in from the top of the cabinet through a disposable pre-filter with 85% arrestance, trapping larger particles and prolonging the life of the main filter.
- Air is forced evenly across the ULPA/H14 filter. The result is a stream of clean laminar air with the work-zone, diluting and flushing 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



1. *Esco Sentinel™ Gold Microprocessor Control System / Simple Switches Control System*
2. *Fixed Sash (LV_-F variant) (Optional) Manual Sliding Sash (LV_-S variant)*
3. *Optional Front Cover*
4. *Stainless Steel Work Top*
5. *Pre-filter*
6. *DC ECM Blower (Self-compensating and lower noise)*
7. *ULPA filter*
8. *IV Bar Retrofit Kit Provision*
9. *LED Lamp*
10. *Tempered Glass Side Walls (for LVG Variant) Stainless Steel Side Walls (for LVS Variant)*
11. *Airflow Sensor*
12. *UV Lamp*
13. *Service Fixture Retrofit Kit Provision (2 holes on each side)*
14. *Electrical Outlet Retrofit Kit provison (1 outlet on each side)*

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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 m² (6.5 ft²)	0.8 m² (8.6 ft²)	1.0 m² (10.7 ft²)	1.3 m² (14.0 ft²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint			
Air Volume		1117 m³/hr (657 cfm)	1471 m³/hr (866 cfm)	1824 m³/hr (1074 cfm)	2177 m³/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-polyster 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 m³ (56.6 ft³)	2.0 m³ (70.6 ft³)	2.5 m³ (88.2 ft³)	3.3 m³ (116.5 ft³)

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.*

DOMINIQUE DUTSCHER SAS

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″)	1813 x 631 x 573 mm (71.4″ 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 m² (5.4 ft²)	0.7 m² (7.5 ft²)	0.9 m² (9.6 ft²)	1.0 m² (10.8 ft²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint			
Air Volume		834 m³/hr (491 cfm)	1117 m³/hr (657 cfm)	1400 m³/hr (824 cfm)	1683 m³/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-polyster 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 m³ (56.6 ft³)	2.0 m³ (70.6 ft³)	2.5 m³ (88.2 ft³)	3.3 m³ (116.5 ft³)

DOMINIQUE DUTSCHER SAS

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**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)

Stainless Steel Sides		**LHS-3BG-F8 2120463**	**LHS-4BG-F8 2120465**	**LHS-5BG-F8 2120467**	**LHS-6BG-F8 2120469**
		LHS-3BG-F9 2120503	**LHS-4BG-F9 2120505**	**LHS-5BG-F9 2120507**	**LHS-6BG-F9 2120509**
Glass Sides		**LHG-3BG-F8 2120453**	**LHG-4BG-F8 2120455**	**LHG-5BG-F8 2120457**	**LHG-6BG-F8 2120459**
		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″)	1813 x 620 x 725 mm (71.4″ 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 m² (5.4 ft²)	0.7 m² (7.5 ft²)	0.9 m² (9.6 ft²)	1.0 m² (10.8 ft²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint			
Air Volume		1055 m³/hr (621 cfm)	1413 m³/hr (832 cfm)	1771 m³/hr (1042 cfm)	2129 m³/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-polyster 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 m³ (56.6 ft³)	2.0 m³ (70.6 ft³)	2.5 m³ (88.2 ft³)	3.3 m³ (116.5 ft³)

DOMINIQUE DUTSCHER SAS

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***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 Emmision 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)
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 68.9")	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

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***Cabinet only, excludes optional stand.*

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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~~

DOMINIQUE DUTSCHER SAS

ESCO®
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

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