



Airstream®



Esco Airstream® Horizontal Laminar Flow
Clean Bench Model LHG-4



Esco Airstream® Vertical Laminar Flow
Clean Bench Model LVG-4

Laminar Flow Clean Benches, Horizontal and Vertical

The Leading Solution for Research Laboratories

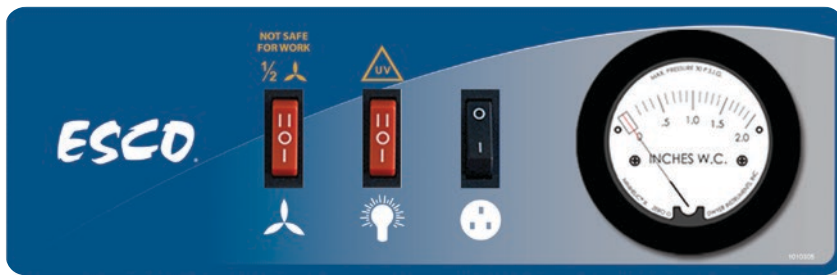
More product variants and sizes to suit more applications and user preferences



KEY BENEFITS:

- *Energy-Efficient DC ECM Blower. ONLY 155 Watts!! (for 4 ft size) and with Standby Mode for more energy saving*
- *World's Leading Low Noise Laminar Flow Cabinet*
- *Stable and Self-compensating Flow*
- *Isocide™ Powder-coated*
- *ULPA filter (up to ISO Class 3)*
- *With Real-time Airflow Monitoring*

ESCO
SCIENTIFIC



Airflow Sensor

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



Rocker Switches and Pressure Gauge

- Easy-to-use switches
- Displays filter loading status
- Standby mode switch for more energy savings



Optional Sentinel™ Gold Microprocessor Controller

- Displays all safety information on one screen
- Standby mode switch to further save energy
- Programmable UV timer to extend UV lamp life

Ergonomic Control Panel Location

- Located on the center and angled down
- ADA-Compliant



Work Top

- The spill-retaining work top design with a recessed central area contains accidental liquid spills.



Guide to Models

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	Glass	*G	3 feet	3	2.5 feet	B	Simple Switches Standard	S	Fixed	F	115 VAC, 50 / 60 Hz	9
				Stainless Steel	S	4 feet	4	3 feet	***C	Sentinel™ Gold Optional	G				
						5 feet	5								
						6 feet	6								
						**8 feet	8								

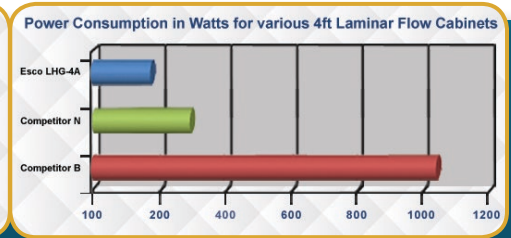
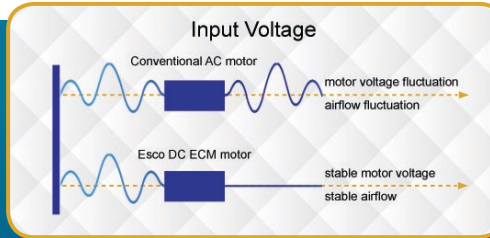
* Glass side is only available for 2 1/2 feet (B) internal height Example Code: LHG-4BS-F9
Specifications: Laminar flow cabinet, Horizontal Flow, Glass sided walls, 4 feet width, 2.5 feet internal height, Simple Switches controller, Fixed window and 115 VAC, 50/60 Hz

**8 feet width is only available for 3 feet (C) internal height Example Code: LHS-8CS-F9
Specifications: Laminar flow cabinet, Horizontal Flow, Stainless steel sided walls, 8 feet width, 3 feet internal height, Simple Switches controller, Fixed window and 115 VAC, 50/60 Hz

***3 feet internal height is only available for stainless steel sided walls AND 4 feet, 6 feet or 8 feet width Example Code: LHS-4CS-F9
Specifications: Laminar flow cabinet, Horizontal Flow, Stainless steel sided walls, 4 feet width, 3 feet internal height, Simple Switches controller, Fixed window and 115 VAC, 50/60 Hz

Energy Efficient DC ECM Blower

- Powered by 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 to further reduce power consumption by 60%



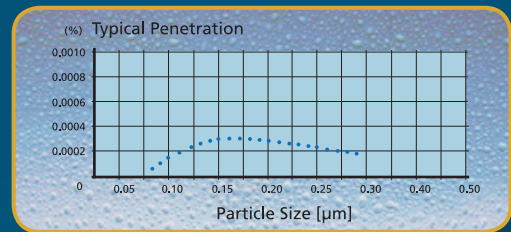
Quiet Operation

- World's leading low noise laminar flow cabinet
- Comfortable low noise at 55 dBA
**LHG-4B in open field condition*
- Reduces fatigue and improves work concentration



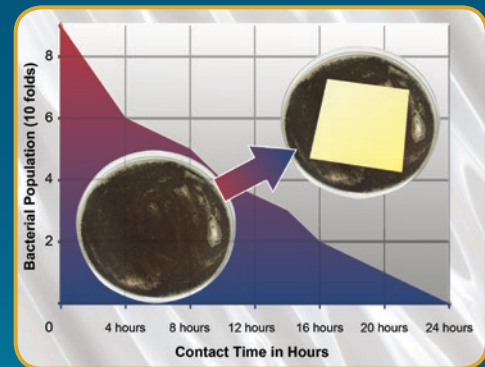
ULPA Filter

- 10x Filtration efficiency 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



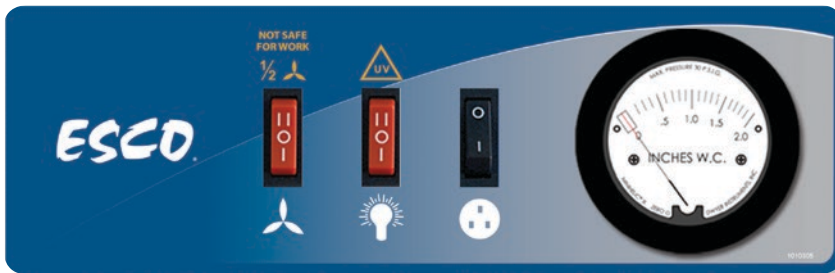
ISOCIDE™ Powder Coat

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



Airstream® Horizontal Laminar Flow Clean Bench, Model LHG-B
Available in 0.9, 1.2, 1.5, and 1.8 meter models (3', 4', 5', and 6')

Standards Compliance	Cabinet Performance	Air Quality	Filtration	Electrical Safety
	IEST-RP-CC002.2, Worldwide	ISO 14644.1, Class 4, Worldwide AS 1386 Class 2.5, Australia JIS B9920, Class 4, 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



Optional Airflow Sensor

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



Rocker Switches and Pressure Gauge

- Easy-to-use switches
- Displays filter loading status
- Standby mode switch for more energy savings



Optional Sentinel™ Gold Microprocessor Controller

- Displays all safety information on one screen
- Standby mode switch to further save energy
- Programmable UV timer to extend UV lamp life

Ergonomic Control Panel Location

- Located on the center and angled down
- ADA-Compliant



Work Top

- Spill-retaining work top design with a recessed central area contains accidental liquid spills.

Guide to Models

L V - -															
1st Placeholder	2nd Placeholder	3rd Placeholder	4th Placeholder	5th Placeholder	6th Placeholder	7th Placeholder	8th Placeholder								
Product Line	Flow	Side Wall	Width	Internal Height	Control	Window	Electrical								
Laminar Flow	L	Vertical	V	Glass	*G	3 feet	3	2 ¼ feet	A	Simple Switches Standard	S	Fixed	F	115 VAC, 50 / 60 Hz	9
		Stainless Steel	S	4 feet	4	3 feet		3 feet	***C	Sentinel™ Gold Optional	G				
				5 feet	5										
				6 feet	6										
				**8 feet	8										

* Glass side is only available for 2 ¼ feet (A) internal height Example Code: LVG-4AS-F9
 Specifications: Laminar flow cabinet, Vertical Flow, Glass sided walls, 4 feet width, 2 feet internal height, Simple Switches controller, Fixed window and 115 VAC, 50/60 Hz

**8 feet width is only available for 3 feet (C) internal height and stainless steel sided walls Example Code: LVS-8CS-F9
 Specifications: Laminar flow cabinet, Vertical Flow, Stainless steel sided walls, 8 feet width, 3 feet internal height, Simple Switches controller, Fixed window and 115 VAC, 50/60 Hz

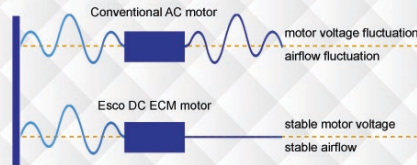
***3 feet internal height is only available for stainless steel sided walls AND 4 feet, 5 feet, 6 feet or 8 feet width Example Code: LVS-4CS-F9
 Specifications: Laminar flow cabinet, Vertical Flow, Stainless steel sided walls, 4 feet width, 3 feet internal height, Simple Switches controller, Fixed window and 115 VAC, 50/60 Hz

Energy Efficient DC ECM Blower

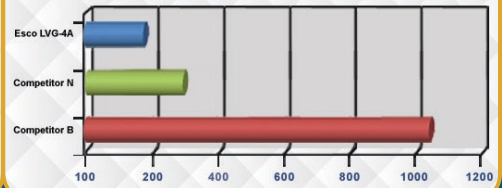
- Powered by latest generation DC ECM, that is more efficient than legacy ECM and VFD motors
- 70% Energy savings compared to AC motor
- Stable airflow, despite building voltage fluctuations & filter loading
- Standby mode to further reduce power consumption by 60%



Input Voltage



Power Consumption in Watts for various 4ft Laminar Flow Cabinets



Quiet Operation

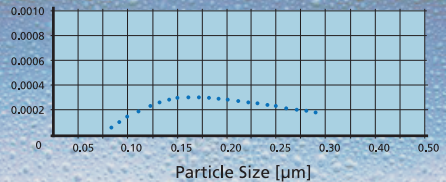
- World's leading low noise laminar flow cabinet
- Comfortable low noise at 52 dBA
**LVG-4A in open field condition*
- Reduces fatigue and improves work concentration



ULPA Filter

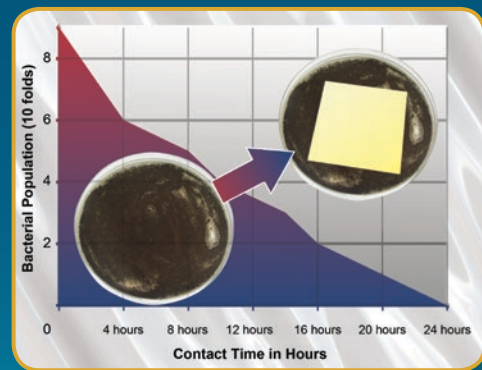
- 10x Filtration efficiency of HEPA filter Creates ISO Class 3 work zone instead of industry-standard ISO Class 5
- 10x Cleaner work zone than cabinets with HEPA filter

(%) Typical Penetration



ISOCIDE™ Powder Coat

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



Airstream® Vertical Laminar Flow Clean Bench Model LVG-A

Available in 0.9, 1.2, 1.5, and 1.8 meter models (3', 4', 5', and 6').

Standards Compliance	Cabinet Performance	Air Quality	Filtration	Electrical Safety
	IEST-RP-CC002.2, Worldwide	ISO 14644.1, Class 4, Worldwide AS 1386 Class 2.5, Australia JIS B9920, Class 4, 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

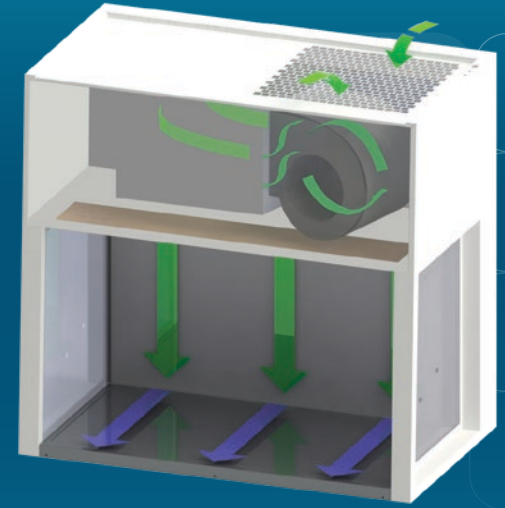
Airstream® Horizontal Laminar Flow Stainless Steel Side Wall Version with optional Sentinel™ Gold Controller



Cabinet Filtration System

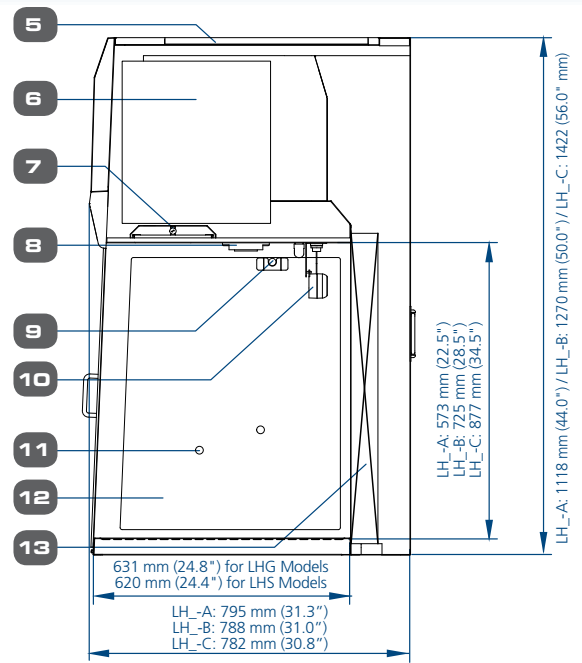
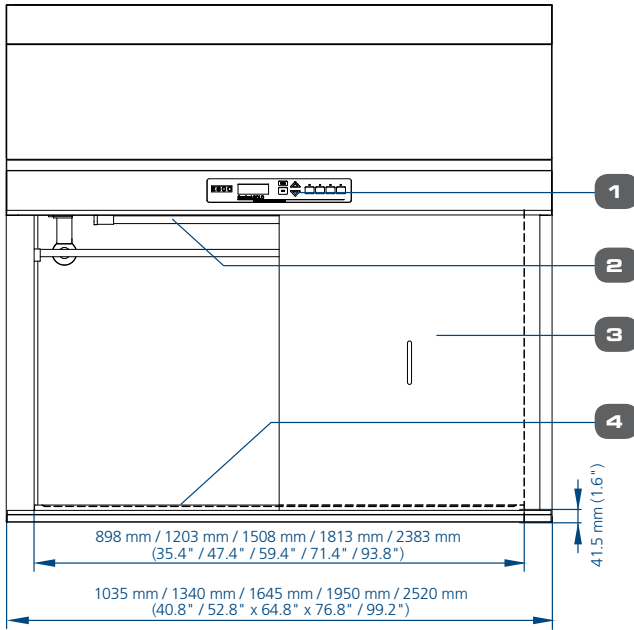
- Room air is taken in from the top of the clean bench through a disposable pre-filter with 85% arrestance; this serves to trap larger particles and increase the life of the main filter.
- Air is forced evenly across the ULPA/H14 filter(s); the result is a stream of clean laminar air within the workzone of the clean bench; this dilutes and flushes all airborne contaminants from the interior.
- 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 clean bench to maintain cleanliness.
- The purified air travels across the internal work zone of the clean bench in a horizontal, unidirectional stream and leaves the main work chamber across the entire open front of the clean bench.

Airflow Diagram



■ ULPA / H14 filtered air
■ Room air / Inflow air

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- Esco Sentinel™ Gold Microprocessor Controller / Simple Switches Control System
- UV Light Retrofit Kit Provision

- (Optional) Front Cover
- Spill-retaining Stainless Steel Work Top
- Pre-filter
- DC ECM Blower

- Fluorescent Lamp
- Electrical Outlet Provision (maximum of 2)
- IV Bar Retrofit Kit Provision
- Air Flow Sensor

- Service Fixture Retrofit Kit Provision (2 on each side)
- Tempered Glass Side Walls (for LHG Variant)
Stainless Steel Side Walls (for LHS Variant)
- ULPA / H14 Filter

Esco Horizontal and Vertical Laminar Flow Clean Benches 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-GFCI 5170071		
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 5130059
Support Stand Telescoping with Leveling Feet (28" to 34")	STL-3A0 5130050	STL-4A0 5130051	STL-5A0 5130052	STL-6A0 5130053	STL-8A0 5130054
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

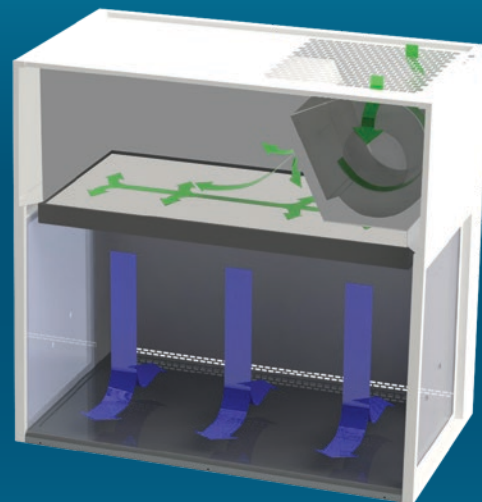
Airstream® Vertical Laminar Flow Stainless Steel Side Wall Version with optional Sentinel™ Gold Controller



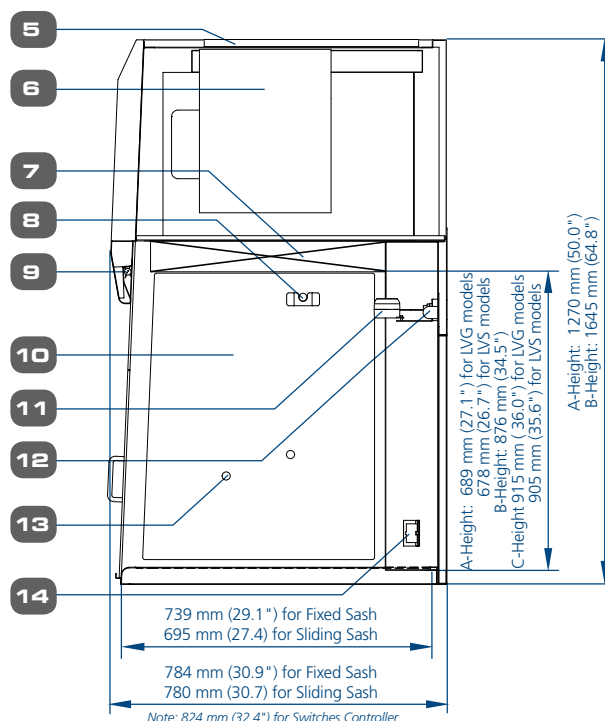
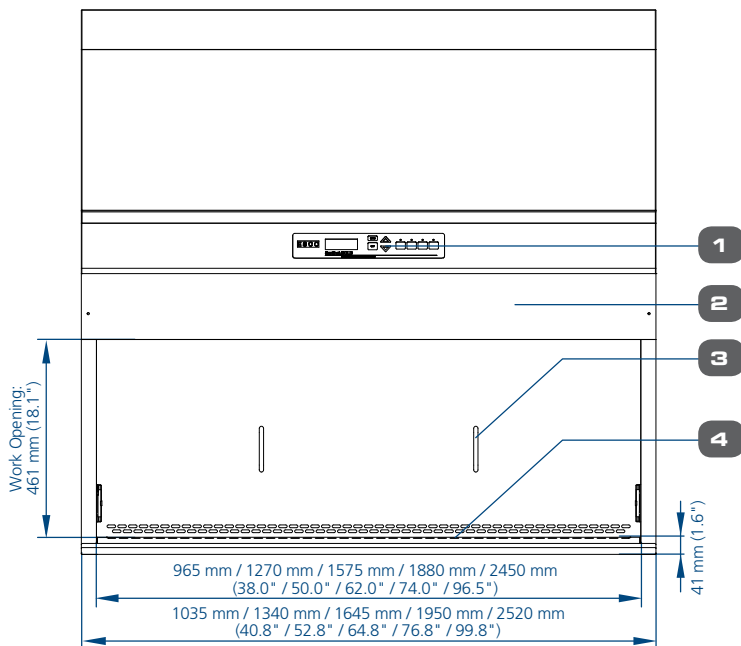
Cabinet Filtration System

- Room air is taken in from the top of the clean bench through a disposable pre-filter with 85% arrestance; this serves to trap larger particles and increase the life of the main filter.
- Air is forced evenly across the ULPA/H14 filter(s); the result is a stream of clean laminar air within the workzone of the clean bench; this dilutes and flushes all airborne contaminants from the interior.
- 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 clean bench to maintain cleanliness.
- The purified air travels across the working zone of the clean bench in a vertical, unidirectional stream and leaves the main work chamber across the entire open front of the clean bench and through Auto-Purge™ slots at the back wall of the work zone which are designed to eliminate air turbulence and the possibility of dead air corners in the work zone.

Airflow Diagram



- ULPA / H14 filtered air
- Room air / Inflow air



- 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
- IV Bar Retrofit Kit Provision
- Fluorescent 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 Clean Benches Front Cover (For UV Interlock System)

	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

* For fixed sash models only (LVS-F and LVG-F)

General Specifications, Airstream® Horizontal Laminar Flow Clean Benches, B-Height (Interior Height: 2 ½ ft / 0.8 m)

Glass Side, Simple Switches		LHG-3BS-F9 2120705	LHG-4BS-F9 2120716	LHG-5BS-F9 2120717	LHG-6BS-F9 2120718
Stainless Steel Side, Simple Switches		LHS-3BS-F9 2120661	LHS-4BS-F9 2120663	LHS-5BS-F9 2120665	LHS-6BS-F9 2120667
Stainless Steel Side, Microprocessor		LHS-3BG-F9 2120503	LHS-4BG-F9 2120505	LHS-5BG-F9 2120507	LHS-6BG-F9 2120509
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)*		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 0.3µm			
Sound Emission per IEST-RP-CC002.2*		52.8 dBA	55.4 dBA	58.0 dBA	59.6 dBA
Fluorescent Lamp Intensity at Zero Ambient		1279 Lux (119 foot candles)	1394 Lux (130 foot candles)	1204 Lux (112 foot candles)	1494 Lux (139 foot candles)
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.			
	LHG Side Walls	UV-absorbing tempered glass, 5 mm (0.2"), colorless and transparent			
	LHS Side Walls	Interior: 1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish. Exterior: 1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish.			
Electrical Power Rating 9: 110-130 VAC, 50 / 60Hz, 1 phase**	Cabinet Full Load Amps (FLA)	12.3 A	12.4 A	12.4 A	12.5 A and 6.5 A (2 Power Inlet)
	Optional Outlets (FLA)	6 A			
	Cabinet Nominal Power (W)	154	188	273	343
	Heat Rejected, BTU per Hour	525	641	932	1170
Net Weight***		108 Kg (238 lbs)	156 Kg (344 lbs)	180 Kg (397 lbs)	228 Kg (503 lbs)
Shipping Weight***		140 Kg (308 lbs)	211 Kg (465 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 (87 ft ³)	3.3 m ³ (118.6 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.

**Additional voltages may be available; contact Esco for ordering information.

***Clean bench only; excludes optional stand.

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

Stainless Steel Side, Simple Switches		LHS-4CS-F9 2120675	LHS-6CS-F9 2120679	LHS-8CS-F9 2120681
Nominal Size		1.2 meter (4')	1.8 meter (6')	2.4 meter (8')
External Dimensions (W x D x H)	Without Base Stand	1340 x 788 x 1422 mm (52.8" x 31.0" x 56.0")	1950 x 788 x 1422 mm (76.8" x 31.0" x 56.0")	2520 x 788 x 1422 mm (99.2" x 31.0" x 56.0")
Internal Work Area, Dimensions (W x D x H)*		1203 x 620 x 877 mm (47.4" x 24.4" x 34.5")	1813 x 620 x 877 mm (71.4" x 24.4" x 34.5")	2383 x 620 x 877 mm (93.8" x 24.4" x 34.5")
Internal Work Area, Space		0.7 m ² (7.5 ft ²)	1.0 m ² (10.8 ft ²)	1.4 m ² (15.0 ft ²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial set point		
Air Volume		1709 m ³ /hr (1006 cfm)	2576 m ³ /hr (1516 cfm)	3385 m ³ /hr (1992 cfm)
ULPA Filter Typical Efficiency		> 99.999% at particle size between 0.1 to 0.3µm		
Sound Emission per IEST-RP-CC002.2*		56.4 dBA	59.4 dBA	62.3 dBA
Fluorescent Lamp Intensity At Zero Ambient		1304 Lux (121 foot candles)	1001 Lux (93 foot candles)	1136 Lux (106 foot candles)
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.		
	LHS Side Walls	Interior: 1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish. Exterior: 1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish.		
Electrical Power Rating 9: 110-130 VAC, 50 / 60Hz, 1 phase**	Cabinet Full Load Amps (FLA)	12.3 A	12.5 A and 6.5 A (2 Power Inlet)	13 A and 7 A (2 Power Inlet)
	Optional Outlets (FLA)	6 A		
	Cabinet Nominal Power (W)	217	400	432
	Heat Rejected, BTU per Hour	740	1365	1481
Net Weight***		167 Kg (368 lbs)	236 Kg (520 lbs)	317 Kg (699 lbs)
Shipping Weight***		222 Kg (489 lbs)	301 Kg (663 lbs)	397 Kg (875 lbs)
Shipping Dimensions, Maximum (W x D x H)***		1400 x 900 x 1590 mm (55" x 35" x 62")	2200 x 900 x 1590 mm (87" x 35" x 62")	2720 x 950 x 1590 mm (107" x 37" x 62")
Shipping Volume, Maximum***		2.0 m ³ (70.6 ft ³)	3.3 m ³ (118.6 ft ³)	4.1 m ³ (144.8 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.

**Additional voltages may be available; contact Esco for ordering information.

***Clean bench only; excludes optional stand.

General Specifications, Airstream® Vertical Laminar Flow Clean Benches, A-Height (Interior Height: 2 ¼ ft / 0.7 m)

Glass Side, Microprocessor		LVG-3AG-F9 2120435	LVG-4AG-F9 2120437	LVG-5AG-F9 2120439	LVG-6AG-F9 2120441
Stainless Steel Side, Microprocessor		LVS-3AG-F9 2120443	LVS-4AG-F9 2120445	LVS-5AG-F9 2120447	LVS-6AG-F9 2120449
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 824 x 1270 mm (40.8" x 32.4" x 50.0")	1340 x 824 x 1270 mm (52.8" x 32.4" x 50.0")	1645 x 824 x 1270 mm (64.8" x 32.4" x 50.0")	1950 x 824 x 1270 mm (76.8" x 32.4" x 50.0")
	Internal Work Area, Dimensions (W x D x H)*	LVG Models	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")
LVS Models		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")
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 0.3µm			
Sound Emission per IEST-RP-CC002.2*		51.6 dBA	52.4 dBA	55.6 dBA	57.6 dBA
Fluorescent Lamp Intensity at Zero Ambient		980 Lux (94 foot candles)	904 Lux (84 foot candles)	894 Lux (83 foot candles)	1062 Lux (99 foot candles)
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.			
	LVG Side Walls	UV-absorbing tempered glass, 5 mm (0.2"), colorless and transparent			
	LVS Side Walls	Interior: 1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish. Exterior: 1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish.			
Electrical Power Rating 9: 110-130 VAC, 50 / 60Hz, 1 phase**	Cabinet Full Load Amps (FLA)	13 A	13.5 A	14.3 A	14.5 A
	Optional Outlets (FLA)	6 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.

** Additional voltages may be available; contact Esco for ordering information.

***Clean bench only; excludes optional stand.

Airstream®

Laminar Flow Clean Benches, Horizontal and Vertical

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

Stainless Side, Simple Switches		LVS-4CS-F9 2120710	LVS-5CS-F9 2120720	LVS-6CS-F9 2120711	LVS-8CS-F9 2120689
Nominal Size		1.2 meter (4')	1.5 meter (5')	1.8 meter (6')	2.4 meters (8')
External Dimensions (W x D x H)	Without Base Stand	1340 x 814 x 1645 mm (52.8" x 32.0" x 64.8")	1645 x 814 x 1645 mm (64.8" x 32.0" x 64.8")	1950 x 814 x 1645 mm (76.8" x 32.0" x 64.8")	2520 x 814 x 1645 mm (99.2" x 32.0" x 64.8")
Internal Work Area, Dimensions (W x D x H)*		1270 x 739 x 905 mm (50.0" x 29.1" x 35.6")	1575 x 739 x 905 (62.0" x 29.1" x 35.6")	1880 x 739 x 905 mm (74.0" x 29.1" x 35.6")	2450 x 739 x 905 mm (96.5" x 29.1" x 35.6")
Internal Work Area, Space		0.8 m ² (8.6 ft ²)	1.0 m ² (10.7 ft ²)	1.3 m ² (14.0 ft ²)	1.6 m ² (17.2 ft ²)
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint			
Air Volume		1432 m ³ /hr (843 cfm)	1776 m ³ /hr (1045 cfm)	2120 m ³ /hr (1248 cfm)	2762 m ³ /hr (1626 cfm)
ULPA Filter Typical Efficiency		> 99.999% at particle size between 0.1 to 0.3µm			
Sound Emission per IEST-RP-CC002.2*		52.6 dBA	53.0 dBA	53.2 dBA	59.8 dBA
Fluorescent Lamp Intensity At Zero Ambient		904 Lux (84 foot candles)	894 Lux (83 foot candles)	1062 Lux (99 foot candles)	1100 Lux (8102 foot candles)
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.			
	LVS Side Walls	Interior: 1.2 mm (0.05") 18-gauge stainless steel, grade 304, with 4B finish. Exterior: 1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester powder-coated finish.			
Electrical Power Rating 9: 110-130 VAC, 50 / 60Hz, 1 phase**	Cabinet Full Load Amps (FLA)	13.5 A	14.3 A	14.5 A and 8.5 A (2 Power Inlet)	15 A and 9 A (2 Power Inlet)
	Optional Outlets (FLA)	5 A			
	Cabinet Nominal Power (W)	217	304	400	434
	Heat Rejected, BTU per Hour	740	1037	1365	1481
Net Weight***		194 Kg (428 lbs)	244 Kg (538 lbs)	255 Kg (560 lbs)	352 Kg (776 lbs)
Shipping Weight***		243 Kg (536 lbs)	308 Kg (679 lbs)	330 Kg (661 lbs)	455 Kg (1003 lbs)
Shipping Dimensions, Maximum (W x D x H)***		1490 x 900 x 1750 mm (59" x 35" x 69")	1790 x 900 x 1750 mm (70" x 35" x 69")	2070 x 900 x 1750 mm (82" x 35" x 69")	2720 x 950 x 1750 mm (107" x 37" x 69")
Shipping Volume, Maximum***		2.3 m ³ (81 ft ³)	2.8 m ³ (99.6 ft ³)	3.3 m ³ (116.5 ft ³)	4.5 m ³ (158.9 ft ³)

Specifications are subject to change without notice.

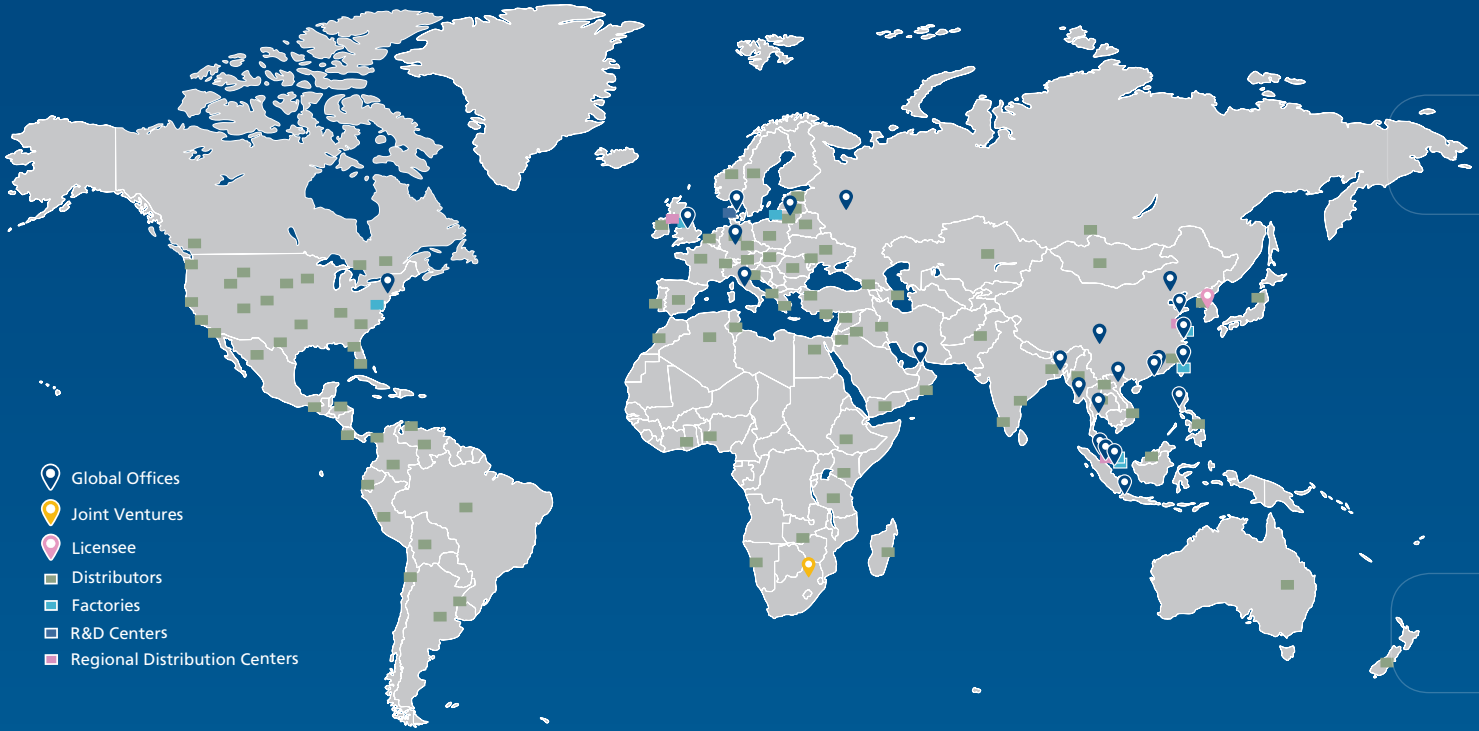
*Noise reading in open field condition / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3 dBA above these values.

** Additional voltages may be available; contact Esco for ordering information.

***Clean bench only; excludes optional stand.

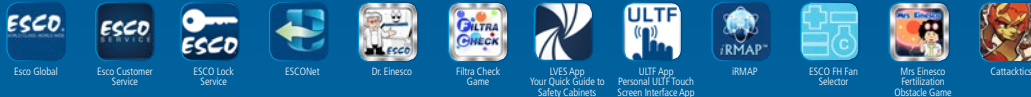
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