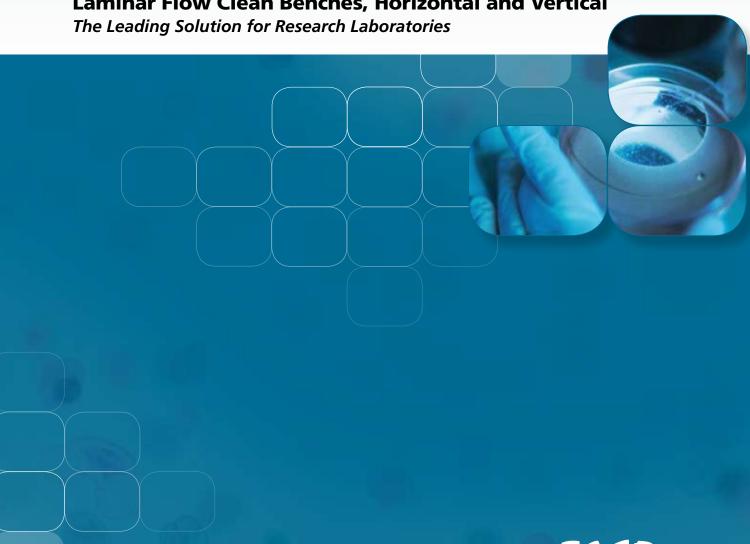
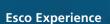


**Laminar Flow Clean Benches, Horizontal and Vertical** 



WORLD CLASS. WORLDWIDE.





Esco is the world leader in premium laminar flow clean benches for the global life sciences market. Since 1978, Esco has installed tens of thousands of laminar flow clean benches providing reliable protection for samples and work processes for a multitude of applications.

Esco laminar flow clean benches are the premium selection for the discerning researcher, offering a combination of value, high quality construction, low operating noise levels, and a wide product range to suit all budgets, from the industry leader.

Airstream Horizontal Laminar Flow Clean Bench, Model AHC-4D\_. Shown with optional caster wheels stand, ergonomic lab chair and footrest.

Standards Compliance	Cabinet Performance	Air Quality	Filtration	Electrical Safety	
	EN 12469 IEST-RP-CC002.2, 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-CC007.1, Worldwide IEST-RP-CC034.1, Worldwide	IEC 61010-1, Worldwide EN 61010-1, Europe UL 61010-1, USA CAN/CSA-22.2, No.61010-1	

Type-tested for cross-contamination and product protection using the microbiological testing methods adapted from this biological safety cabinet standard.

Touchpad data entry buttons permit control settings and access to default settings.

Color coded indicator lamps display green for fan operation, fluorescent lights and electrical outlet; and red for caution (UV lamp ON). Digital read-out with alpha-numeric display indicates all input, status and alarm functions.

All functions can be user activated through touch-pad programming access; see Operations Manual.

BB BB mis 
mmss 

Exit

ESCO.

#### **LAMINAR FLOW CABINET**

Product Protection only Read all safety related instructions before use Operate unit continuously for best performance Test / certify this cabinet at least annually

ISO 14644.1 Class 4 – IEC 61010 1 ULPA Filters of Typical Efficiency ±99.999% Nocide \* Antimicrobial Coated Body ISO 9001 Certified Quality System Esco Sentinel Delta Microprocessor Control System, Programmable

- When programmed ON, the start-up sequence will automatically monitor actual airflow and show it on the display
- When programmed ON, an airflow alarm warns of deviations from normal velocities.

# Horizontal and Vertical Laminar Flow Clean Benches

Esco Airstream Laminar Flow Clean Benches are available in both horizontal and vertical flow models. In both models, air is taken in from above the cabinet and passed through a ULPA filter.

- In horizontal flow models filtered air is then passed through the main chamber of the clean bench in a horizontal laminar (unidirectional) air stream and is exhausted through the front opening of the cabinet.
- In vertical flow models, filtered air is passed through the main chamber of the clean bench in a vertical laminar (unidirectional) air stream before being exhausted through the front opening of the clean bench.

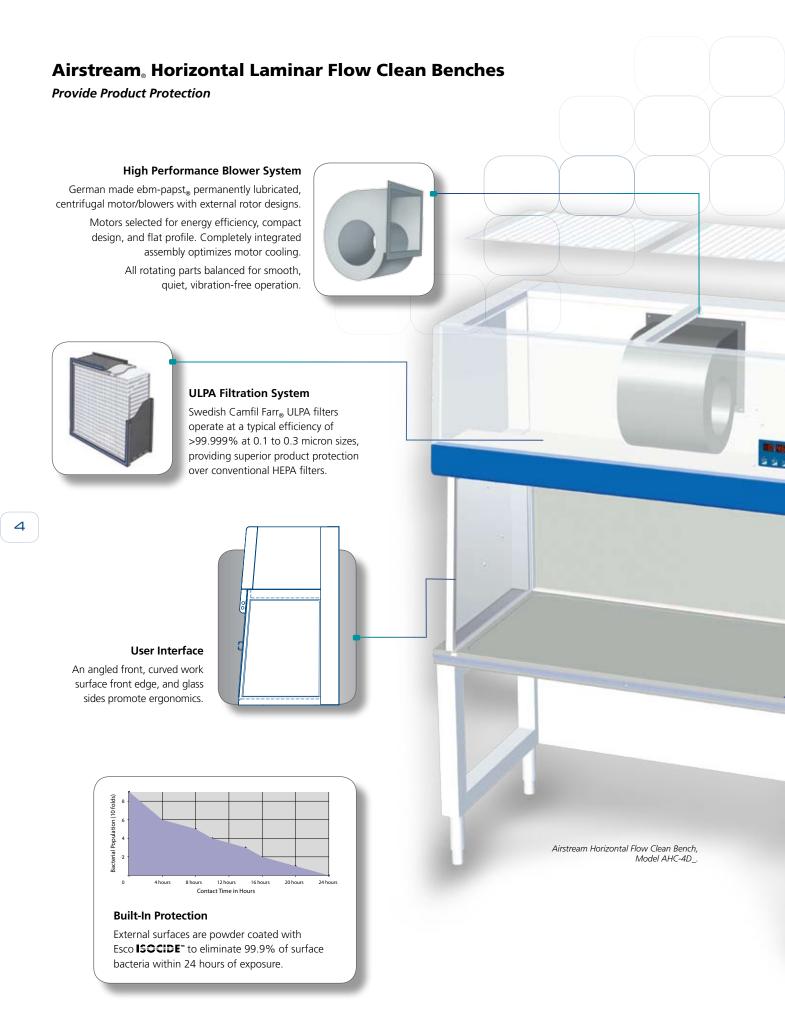
In horizontal laminar flow clean benches (AHC) there is a slightly reduced level of turbulence compared to vertical flow clean benches (AVC) due to the airflow not striking the work surface. However vertical laminar flow clean benches generate less turbulence around large pieces of equipment as compared to horizontal laminar flow clean benches.



Airstream Horizontal Laminar Flow Clean Bench, Model AHC-4D\_. Shown with optional caster wheels stand. Available in 0.6, 0.9, 1.2, 1.5 and 1.8m (2', 3', 4', 5' and 6').

ESCO.
WORLD CLASS. WORLDWIDE.

3





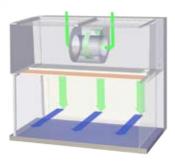
#### Sentinel™ Delta Microprocessor Control System

Soft touch controls for blower, light, outlet and UV are easy to clean. A temperature-compensated air velocity sensor and real-time display allows airflow to be monitored more accurately compared with conventional pressure gauges.



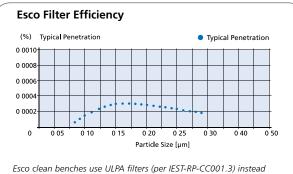
#### **Work Top**

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



# **Proven Product Protection**

Horizontal laminar air flow with ULPA filtration, >99.999% at 0.1 to 0.3 microns, provides superior product protection.



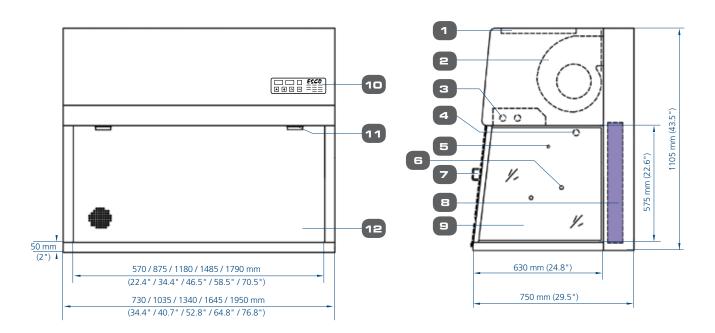
Esco clean benches use ULPA filters (per IEST-RP-CC001.3) instead of conventional HEPA filters commonly found in laminar flow clean benches. While HEPA filters offer 99.99% typical efficiency at 0.3 micron level, ULPA filters provide 99.999% typical efficiency for particle sizes of 0.1 to 0.3 micron level.

# **Key Features**

- ULPA filters (per IEST-RP-CC-001.3) tested to a typical efficiency of >99.999% for 0.1 to 0.3 micron particles are better than HEPA filters. ULPA filters last as long as conventional HEPA filters and have similar replacement costs.
- All Esco laminar flow clean benches provide ISO Class 3 air cleanliness within the work zone as per ISO 14644.1, significantly cleaner than the usual Class 5 classification on clean benches offered by the competition.
- The intelligent blower system maintains airflow as the filter becomes loaded, ensuring optimum efficiency and product protection.
- An additional disposable pre-filter traps large particles in the inflow air prior to reaching the main filter, protecting against damage and prolonging filter life.
- All Esco products are manufactured for the most demanding laboratory applications. All components are designed for maximum chemical resistance and enhanced durability for a long service life. The main body of the clean bench is constructed of industrialgrade electro-galvanized steel.
- One piece formed stainless steel work surface with a curved front edge is designed for maximum operator comfort.
- Built-in warm white, electronically ballasted, 5000k lighting provides excellent illumination of the work zone and reduces operator fatigue. The reliable lighting system is zero-flicker and instant start.
- Esco Laminar Flow Clean Benches have been tested for cross-contamination and product protection using microbiological test methods specified in EN12469.
- Each clean bench is individually factory tested for safety and performance in accordance with international standards.
- Most of electrical components are UL listed or UL recognized, ensuring superior electrical safety for the operator.
- Esco **ISOCIDE**<sup>™</sup> antimicrobial coating on all painted surfaces.



#### Model AHC (D-Series), Airstream Horizontal Laminar Flow Clean Bench Technical Specifications



- 1. Pre-filter
- 2. Blower

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- 3. Fluorescent lamp
- 4. Standard UV light Retrofit Kit provision
- 5. Standard IV bar Retrofit Kit provision
- 6. Service fixture Retrofit Kit provision (2 holes on each side)
- 7. Optional front cover
- 8. ULPA filter
- 9. Tempered glass side panels
- 10. Esco Sentinel Delta microprocessor control system
- 11. Standard electrical outlet Retrofit Kit provision
- 12. Stainless steel work top

# Warranty

All Esco Airstream, vertical and horizontal flow clean benches are covered by an extended 3 year warranty, excluding consumable parts and accessories. Contact your local Sales Representative for warranty details.

# **Accessories and Options**

Esco offers a variety of options and accessories to meet local applications. Contact Esco or your local Sales Representative for ordering information.

# **Support Stands**

- Fixed height, available 711 mm (28") or 860 mm (34")
  - With leveling feet (SPL)
  - With casters (SPC)
- Adjustable height, hydraulic range 711 mm (28") to 860 mm (34")
  - Manual or electrical lift (SPM)
  - With casters

# **Electrical Outlets and Utility Fixtures**

- Electrical outlet, ground fault, North America
- Electrical outlet, Euro/ Worldwide
- Petcock (air, gas, vacuum)
  - North America (American) style
  - Euro/Worldwide style DIN 12898, DIN 12919, DIN 3537

#### **Cabinet Accessories**

- Germicidal UV lamp
- Transparent front cover (recommended when UV lamp is used)
- PVC armrest
- Height-adjustable lab chair
- Ergonomic foot rest
- IV bar, with hooks





# General Specifications, Airstream Horizontal Laminar Flow Clean Benches

Note to customer: Insert electrical voltage number into last model number digit \_ when ordering.

		vote to customer. Insert er	eetrical voitage namber in	to last model namber digit	_ when ordering.			
Model		AHC-2D_	AHC-3D_	AHC-4D_	AHC-5D_	AHC-6D_		
Nominal Size		0.6 meters (2')	0.9 meters (3')	1.2 meters (4')	1.5 meters (5')	1.8 meters (6')		
External Dimensions	Without Base Stand	730 x 750 x 1105 mm 29.2" x 29.5" x 43.5"	1035 x 750 x 1105 40.7" x 29.5" x 43.5"	1340 x 750 x 1105 mm 52.8" x 29.5" x 43.5 "	1645 x 750 x 1105 mm 64.8" x 29.5" x 43.5"	1950 x 750 x 1105 mm 76.8" x 29.5" x 43.5"		
(W x D x H)	With Optional Base Stand, 711 mm (28") type	730 x 750 x 1816 mm 29.2" x 29.5" x 71.5"	1035 x 750 x1816 mm 40.7" x 29.5" x 71.5"	1340 x 750 x 1816 mm 52.8" x 29.5" x 71.5"	1645 x 750 x 1816 mm 64.8" x 29.5" x 71.5"	1950 x 750 x 1816 mm 76.8" x 29.5" x 71.5"		
Internal Work Area, Dimensions (W x D x H)*		570 x 630 x 575 mm 22.4" x 23.6" x 22.6"	875 x 630 x 575 mm 34.4" x 23.6" x 22.6"	1180 x 630 x 575 mm 46.5" x 23.6" x 22.6"	1790 x 630 x 575 mm 58.5" x 23.6" x 22.6"	1790 x 630 x 575 mm 70.5" x 23.6" x 22.6"		
Internal Work Area, Space		0.36 m² (3.87 sq.ft)	0.55 m² (5.92 sq.ft)	0.74 m² (7.96 sq.ft)	0.94 m <sup>2</sup> (10.11 sq.ft)	1.13 m <sup>2</sup> (12.16 sq.ft)		
Average Airflow Velocity		0.45 m/s (90 fpm) at initial setpoint						
Air Volume		531 m³/h (+/-59 m³/h)	815 m³/h (+/-91 m³/h)	1099 m³/h (+/-122 m³/h)	1383 m³/h (+/-154 m³/h)	1667 m³/h (+/-185 m³/h)		
ULPA Filter Typical Efficiency		>99.999% at particle size between 0.1 to 0.3µm						
Sound Emission Per IEST-RP-CC002.2		<57 dBA	<58 dBA	<60 dBA	<62 dBA	<63 dBA		
Fluorescent Lamp Intensity At Zero Ambient		>1550 Lux (>144 foot candles)	>1600 Lux (> 149 foot candles)	>1800 Lux (>182 foot candles)	>1600 Lux (>149 foot candles)	>1600 Lux (>149 foot candles)		
	Main Body	1.2 mm (0.05") 18 gauge electrogalvanised steel with white oven-baked epoxy powder-coated finish.						
Cabinet Construction	Work Zone	1.2 mm (0.05") 18 gauge stainless steel, grade 304, with 4B finish						
	Side Walls	UV absorbing tempered glass, 5 mm (0.2"), colorless and transparent						
Electrical*	220-240V, AC, 50Hz, 1Ø	AHC-2D1	AHC-3D1	AHC-4D1	AHC-5D1	AHC-6D1		
	Cabinet Power/ Amp	300 W/ 2A	340 W/ 2A	390 W/ 2A	400 W/ 2A	850 W/ 5A		
	Outlet Amp Fuse	5A	5A	5A	5A	5A		
	Total Amp	7A	7A	7A	7A	10A		
	BTU/ Hr	1024	1160	1331	1365	2900		
	110-130V, AC, 60Hz, 1Ø	AHC-2D2	AHC-3D2	AHC-4D2	AHC-5D2	AHC-6D2		
	Cabinet Power/ Amp	580 W/ 6.5A	650 W/ 6.5A	700 W/ 6.5A	700 W/ 6.5A	900 W/ 10.5A		
	Outlet Amp Fuse	5A	5A	5A	5A	5A		
	Total Amp	11.5A	11.5A	11.5A	11.5A	15.5A		
	BTU/ Hr	1979	2218	2388	2388	3071		
	220-240V, AC, 60Hz, 1Ø	AHC-2D3	AHC-3D3	AHC-4D3	AHC-5D3	AHC-6D3		
	Cabinet Power/ Amp	300 W/ 2A	340 W/ 2A	390 W/ 2A	400 W/ 2A	850 W/ 5A		
	Outlet Amp Fuse	5A	5A	5A	5A	5A		
	Total Amp	7A	7A	7A	7A	10A		
	BTU/ Hr	1024	1160	1331	1365	2900		
Net Weight**		101 kg (223 lbs)	125 kg (276 lbs)	150 kg (331 lbs)	169 kg (373 lbs)	190 kg (419 lbs)		
Shipping Weight**		136 kg (301 lbs)	164 kg (362 lbs)	190 kg (419 lbs)	240 kg (529 lbs)	263 kg (580 lbs)		
Shipping Dimensions, Maximum (W x D x H)**		860 x 860 x 1460 mm 33.8" x 33.8" x 57.5"	1120 x 860 x 1460 mm 44" x 33.8" x 57.5"	1430 x 860 x 1460 mm 56.3" x 33.8" x 57.5"	1720 x 860 x 1460 mm 67.7" x 33.8" x 57.5"	2050 x 860 x 1460 mm 80.7" x 33.8" x 57.5"		
Shipping Volume, Maximum**		1.08 m³ (38 cu.ft)	1.41 m³ (50 cu.ft)	1.80 m³ (64 cu.ft)	2.16 m³ (76 cu.ft)	2.57 m³ (90 cu.ft)		

<sup>\*</sup> Additional voltages may be available; contact Esco for ordering information. \*\*Clean bench only; excludes optional stand.

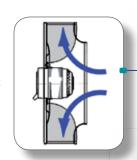


# **High Performance Fan System**

German made ebm-papst<sub>®</sub> permanently lubricated, centrifugal motor/fans with external rotor designs.

Motors selected for energy efficiency, compact design, and flat profile. Completely integrated assembly optimizes motor cooling.

All rotating parts balanced for smooth, quiet, vibration-free operation.



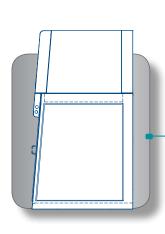


# **ULPA Filtration System**

Swedish Camfil Farr<sub>®</sub> ULPA filters operate at a typical efficiency of >99.999% at 0.1 to 0.3 micron sizes, providing superior product protection over conventional HEPA filters.



An angled front, curved work surface front edge, and glass sides promote ergonomics. The powder coated work zone rear wall eliminates harsh reflections which may be associated with conventional stainless steel interiors. The vertical air flow design minimizes direct airflow which may lead to dry eyes and fatigue on horizontal flow models.





# **Proven Product Protection**

Vertical laminar air flow with ULPA filtration, >99.999% at 0.1 to 0.3 microns, provides superior product protection.

Airstream Vertical Flow Clean Bench, Model AVC-4D\_.



Soft touch controls for blower, light, outlet and UV are easy to clean. A temperature-compensated air velocity sensor and real-time display allows airflow to be monitored more accurately compared with conventional pressure gauges.



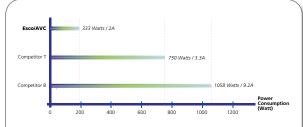
#### **Vertical Laminar Flow**

Compared with horizontal flow models, vertical flow clean benches generate less turbulence when large instruments or items are placed in the work zone. Auto-Purge™ slots minimize airflow turbulence in the rear of the work space.



# **Work Top**

The spill-retaining work top design with a recessed central area contains accidental liquid spills. (Not applicable for Model AVC-6D\_.)



### **Energy Efficiency Chart**

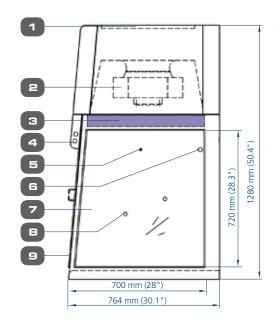
The Esco vertical laminar flow clean benches utilise extremely efficient backward curve fans, allowing for exceedingly low levels of cabinet power consumption that is unparalled in the industry.

The result is greater cost-savings for the user with no compromise in cabinet performance.

# **Key Features**

- ULPA filters (per IEST-RP-CC-001.3) tested to a typical efficiency of >99.999% for 0.1 to 0.3 micron particles are better than HEPA filters. ULPA filters last as long as conventional HEPA filters and have similar replacement costs.
- All Esco laminar flow clean benches provide ISO Class 3 air cleanliness within the work zone as per ISO 14644.1, significantly cleaner than the usual Class 5 classification on clean benches offered by the competition.
- The backward curved wheel with external rotor motor delivers classleading energy efficiency for lower operating costs.
- An additional disposable pre-filter traps large particles in the inflow air prior to reaching the main filter, protecting against damage and prolonging filter life.
- All Esco products are manufactured for the most demanding laboratory applications. All components are designed for maximum chemical resistance and enhanced durability for a long service life. The main body of the clean bench is constructed of industrialgrade electrogalvanized steel.
- One piece formed stainless steel work surface with a curved front edge is designed for maximum operator comfort.
- Built-in warm white, electronically ballasted, 5000k lighting provides excellent illumination of the work zone and reduces operator fatigue. The reliable lighting system is zero-flicker and instant start.
- Esco Laminar Flow Clean Benches have been tested for cross-contamination and product protection using microbiological test methods specified in EN12469.
- Each clean bench is individually factory tested for safety and performance in accordance with international standards.
- Most of electrical components are UL listed or UL recognized, ensuring superior electrical safety for the operator.
- Esco **ISOCIDE**<sup>™</sup> antimicrobial coating on all painted surfaces.





- 1. Pre-filter
- 2. Fan
- 3. ULPA filter
- 4. Fluorescent lamp
- 5. Standard IV bar Retrofit Kit provision
- 6. Standard UV light Retrofit Kit provision
- 7. Tempered glass side Panels
- 8. Service fixture Retrofit Kit provision (2 holes on each side)
- 9. Optional front cover

- 10. Esco Sentinel Delta microprocessor control system
- 11. Electrical outlet Retrofit Kit provision (1 for 2ft and 3ft models, 2 for 4ft and above)
- 12. Stainless steel work top with front curved edge

# Warranty

All Esco Airstream, vertical and horizontal flow clean benches are covered by an extended 3 year warranty, excluding consumable parts and accessories. Contact your local Sales Representative for warranty details.

# **Accessories and Options**

Esco offers a variety of options and accessories to meet local applications. Contact Esco or your local Sales Representative for ordering information.

# **Support Stands**

- Fixed height, available 711 mm
   (28") or 860 mm (34")
  - With leveling feet (SPL)
  - With casters (SPC)
- Adjustable height, hydraulic range
   711 mm (28") to 860 mm (34")
  - Manual or electrical lift (SPM)
  - With casters

#### **Electrical Outlets and Utility Fixtures**

- Electrical outlet, ground fault, North America
- Electrical outlet, Euro/ Worldwide
- Petcock (air, gas, vacuum)
  - North America (American) style
  - Euro/Worldwide style DIN 12898, DIN 12919, DIN 3537

#### **Cabinet Accessories**

- Germicidal UV lamp
- Transparent front cover (recommended when UV lamp is used)
- PVC armrest
- Height-adjustable lab chair
- Ergonomic foot rest
- IV bar, with hooks



#### **General Specifications, Airstream Vertical Laminar Flow Clean Benches** Note to customer: Insert electrical voltage number into last model number digit \_ when ordering. Model AVC-2D AVC-3D\_ AVC-4D AVC-5D AVC-6D **Nominal Size** 0.6 meters (2') 0.9 meters (3') 1.2 meters (4') 1.5 meters (5') 1.8 meters (6') Without Base 730 x 764 x 1280 mm 28.7" x 30" x 50.4" 1035 x 764 x 1280 mm 40.7" x 30" x 50.4" 1340 x 764 x 1280 mm 52.8" x 30" x 50.4" 1645 x 764 x 1280 mm 1950 x 764 x 1280 mm 64.8" x 30" x 50.4" 76.8" x 30" x 50.4" Stand External **Dimensions** With Optional 730 x 764 x 1991 mm 1035 x 764 x 1991 mm 1340 x 764 x 1991 mm 1645 x 764 x 1991 mm 1950 x 764 x 1991 mm $(W \times D \times H)$ Base Stand, 711 28.7" x 30" x 78.4" 40.7" x 30" x 78.4" 52.8" x 30" x 78.4" 64.8" x 30" x 78.4" 76.8" x 30" x 78.4" mm (28") type Internal Work Area, Dimensions 660 x 700 x 720 mm 965 x 700 x 720 mm 1270 x 700 x 720 mm 1575 x 700 x 720 mm 1880 x 700 x 720 mm 26" x 27.5" x 28.3" 38" x 27.5" x 28.3" 50" x 27.5" x 28.3" 62" x 27.5" x 28.3" 74" x 27.5" x 28.3" $(W \times D \times H)$ Internal Work Area, Space 0.39 m<sup>2</sup> (4.2 sq.ft) 0.59 m<sup>2</sup> (6.3 sq.ft) 0.79 m<sup>2</sup> (8.5 sq.ft) 0.98 m<sup>2</sup> (10.54 sq.ft) 1.18m<sup>2</sup> (12.7 sq.ft) Average Airflow Velocity 0.45 m/s (90 fpm) at initial setpoint 1806 m³/h (+/-200m³/h) 603 m<sup>3</sup>/h (+/-67 m<sup>3</sup>/h) 903 m<sup>3</sup>/h (+/-100 m<sup>3</sup>/h) 1204 m<sup>3</sup>/h (+/-134 m<sup>3</sup>/h) 1506 m<sup>3</sup>/h (+/-167 m<sup>3</sup>/h) Air Volume **ULPA Filter Typical Efficiency** >99.999% at particle size between 0.1 to 0.3µm Sound Emission Per IEST-<58.5 dBA 59.5 dBA 60.5 dBA 61.5 dBA 61 dBA RP-CC002.2 Fluorescent Lamp Intensity At Zero >900 Lux >1075 Lux >1260 Lux >1000 Lux >1100 Lux (>102 foot candles) **Ambient** (>83.6 foot candles) (>100 foot candles) (> 117 foot candles) (>93 foot candles) 1.2 mm (0.05") 18 gauge electro-galvanised steel with white oven-baked epoxy powder-coated finish Main Body Clean bench Work Zone 1.2 mm (0.05") 18 gauge stainless steel, grade 304, with 4B finish Construction Side Walls UV absorbing tempered glass, 5 mm (0.2"), colorless and transparent 220-240V, AC, AVC-6D1 AVC-2D1/ AVC-3D1 AVC-4D1 AVC-5D1 50Hz, 1Ø Cabinet Power/ 350 W/2A 370 W/2A 380 W/2A 400 W/2A 750 W/4A Amp Outlet Amp 5A 5A 5A 5A 5A Fuse Total Amp 7A 7A 7A 7A BTU/ Hr 1194 1262 1297 1365 2320 110-130V, AC, AVC-2D2 AVC-3D2 AVC-4D2 AVC-5D2 AVC-6D2 60Hz, 1Ø Cabinet Power/ 350 W/ 3.5A 380 W/ 3.5A 400 W/ 3.8A 450 W/4A 750 W/ 6.7A amA Electrical\* Outlet Amp 5A 5A 5A 5A 5A Fuse Total Amp 8.5A 8.5A 8.5A 9A 11.7A BTU/ Hr 1194 1297 1365 1535 2559 220-240V, AC, AVC-2D3 AVC-4D3 AVC-5D3 AVC-6D3 AVC-3D3 60Hz, 1Ø Cabinet Power/ 350 W/ 2A 370 W/ 2 A 380 W/ 2 A 400 W/ 2A 750 W/4A Amp Outlet Amp 5 A 5 A 5 A 5A 5 A Fuse 7 A 7 A 7A 9 A Total Amp 7 A BTU/ Hr 1194 1262 1297 1365 2320 171 kg (414 lbs) Net Weight\*\* 152 kg (335 lbs) 106 kg (234 lbs) 127 kg (280 lbs) 225 kg (496 lbs) 162 kg (357 lbs) 171 kg (377 lbs) 232 kg (538 lbs) Shipping Weight\*\* 205 kg (452 lbs) 282 kg (622 lbs)

1130 x 860 x 1490 mm

44.5"x 33.8" x 58.6'

1.45 m<sup>3</sup> (51.2 cu.ft)

1430 x 860 x 1490 mm

56.3" x 33.8" x 58.6"

1.83 m<sup>3</sup> (64.6 cu.ft)

1740 x 860 x 1490 mm

68.5" x 33.8" x 58.6"

2.23 m<sup>3</sup> (78.7 cu.ft)

860 x 860 x 1490 mm

33.8" X 33.8" X 58.6"

1.10 m<sup>3</sup> (38.8 cu.ft)

Shipping Dimensions, Maximum

Shipping Volume, Maximum\*\*

(W x D x H)\*;



2050 x 860 x 1490 mm

80.7" x 33.8" x 58.6"

2.63 m<sup>3</sup> (92.8 cu.ft)

<sup>\*</sup> Additional voltages may be available; contact Esco for ordering information.

<sup>\*\*</sup> Clean bench only; excludes optional stand.



#### Esco Containment, Clean Air and Laboratory Equipment Products

Biological Safety Cabinets, Class II, III
Fume Hoods, Conventional, High Performance, Ductless Carbon Filtered
Laminar Flow Cabinets, Horizontal, Vertical, PCR
Animal Containment Workstations
Hospital Pharmacy Isolators, Cytotoxic Safety Cabinets
Specialty Workstations: In-Vitro Fertilization, Powder Weighing
PCR Thermal Cyclers, Conventional, Real-Time
Cleanroom Fan Filter Units, Modular Rooms, Air Showers, Pass Thrus

Since 1978, Esco has emerged as a leader in the development of controlled environment, laboratory and cleanroom equipment solutions. Products sold in more than 100 countries include biological safety cabinets, fume hoods, ductless fume hoods, laminar flow clean benches, animal containment workstations, cytotoxic cabinets, hospital pharmacy isolators, and PCR cabinets and instrumentation. With the most extensive product line in the industry, Esco has passed more tests, in more languages, for more certifications, throughout more countries than any biosafety cabinet manufacturer in the world. Esco remains dedicated to delivering innovative solutions for the clinical, life science, research and industrial laboratory community. www.escoglobal.com.

NSF / ANSI 49 Biological Safety Cabinets • Animal Containment Workstations • Fume Hoods • Clean Benches



# WORLD CLASS, WORLDWIDE,

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