

Safety Cabinets

Air Science, Laminar Flow Range

The 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.

HORIZONTAL FLOW

■ 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.

VERTICAL FLOW

■ 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.

The enhanced filtration system on both horizontal and vertical flow clean benches is designed to provide the highest level of air quality within the work zone, meeting all relevant standards (see technical specifications for details).

MAIN FEATURES

- Microprocessor controller supervises all functions.
- Long-life ULPA filter for supply airflow.
- Sterile work zone environment created for optimum product protection.
- Spillage-retention work surface with recessed central area.
- Ergonomically angled front improves reach and comfort.
- Optional UV lamp assists with work zone decontamination in between operating periods
- The antimicrobial coating on all painted surfaces minimizes contamination.
- Available in 0.6, 0.9, 1.2, 1.5 and 1.8 meter models
- 220 - 240V, 50Hz



S225-508

APPLICATIONS

Uses include applications where there is no generation of biohazardous materials and operator protection is not required.

- Mycology and food microbiology
- Plant and mammalian cell culture
- Clinical pharmacy and hospital use
- Cleanrooms, semiconductor assembly, pharmaceutical, aerospace, and medical devices industries

Specifications, Airstream Vertical Laminar Flow Clean Benches

Catalogue No	S225-500	S225-504	S225-508	S225-512	S225-516
Model	AVC-2A1	AVC-3A1	AVC-4A1	AVC-5A1	AVC-6A1
Nominal Size	0.6 meters (2')	0.9 meters (3')	1.2 meters (4')	1.5 meters (5')	1.8 meters (6')
External Dimensions (W x D x H)	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 64.8" x 30" x 50.4"	1950 x 764 x 1280 mm 76.8" x 30" x 50.4"
Internal Work Area, Dimensions (W x D x H)	660 x 700 x 720 mm 26" x 27.5" x 28.3"	965 x 700 x 720 mm 38" x 27.5" x 28.3"	1270 x 700 x 720 mm 50" x 27.5" x 28.3"	1575 x 700 x 720 mm 62" x 27.5" x 28.3"	1880 x 700 x 720 mm 74" x 27.5" x 28.3"
Usable Work Zone	0.39 m ² (4.2 sq.ft)	0.59 m ² (6.3 sq.ft)	0.79 m ² (8.5 sq.ft)	0.98 m ² (10.54 sq.ft)	1.18m ² (12.7 sq.ft)
Initial Airflow Velocity	0.45 m/s (90 fpm)				
Air Volume	660 m ³ /h (+/-70 m ³ /h) 390 cfm (+/- 42 cfm)	977 m ³ /h (+/-109 m ³ /h) 575 cfm (+/- 64 cfm)	1295 m ³ /h (+/-144 m ³ /h) 762 cfm (+/- 85 cfm)	1614 m ³ /h (+/-180 m ³ /h) 950 cfm (+/- 106 cfm)	1930 m ³ /h (+/-218 m ³ /h) 1136 cfm (+/- 130 cfm)
ULPA Filter Typical Efficiency	>99.999% at particle size between 0.1 to 0.3µm				
Sound Emission Per IEST-RP-CC002.2	<61 dBA	<63 dBA	<62 dBA	<64 dBA	<63.5 dBA
Fluorescent Lamp Intensity At Zero Ambient	>1130 Lux (>105 foot candles)	>990 Lux (>92 foot candles)	>1200 Lux (> 111 foot candles)	>1000 Lux (>93 foot candles)	>1100 Lux (>102 foot candles)
Cabinet Construction	Main Body	1.2 mm / 0.05" / 18 gauge electro-galvanised steel with white oven-baked epoxy powder-coated finish.			
	Work Zone	1.5 mm (0.06") 18 gauge stainless steel, grade 304			
Net Weight* of cabinet only	160kg (353lbs)	177kg (390lbs)	205kg (451lbs)	244kg (536lbs)	282kg (620lbs)

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