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ASE-134 Laminar Flow Cabinet ALPHATM

Laminar Flow Cabinets are designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet class 100 (Class I) conditions. Fabricated from welded 16 gauge C.R. steel includes adjustable levelers. Exterior surface feature a chip-resistant, power coated finish of approximately 0.6mm thickness for its longer life. The work table is made of thick Stainless steel 304 grade at top. Front panel movable transparent scratch resistant sheet of approx 6 mm thickness in Aluminium frame sliding with counter balance. Side panels are made out of thick transparent plexi glass. Air is drawn through pre-filter disposable fiber glass with Filtration efficiency of 98% for all type of particles of size 8 micron and larger and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.999% with cold DOP and 99.999% with hot DOP, thus retaining all airborne particles of size 0.3 micron and larger.

The blower and motor assembly is statically and dynamically balanced. Motor 1440 RPM of 0.25 H.P. capacity operates with minimum noise level and vibration with adjustable speed. Unit will supplied with HEPA, Pre filters, Manometer provided to measure the airpressure. LCD display. Pressure differential: manometer 0-50mm range., Florescent tube with diffuser, U.V. Light 15/30W make Philips Holland & cock. The working area is illuminated by fluorescent lighting fitted to the unit. The height of the working table provides a comfortable "SIT DOWN" working position for the operator. To work on 220/230 volts A.C. Supply. Pre-filters: disposable fiber glass. HEPA filter: choice of HEPA (rated 99.999% efficient@ 0.3µm particles) or ULPA (rated 99.999% efficient @ 0.12µm particles) Lighting: Fluorescent type with lux >800 with diffuse acrylic to get 120 decalux on work surface.

Other changes will be done on request or as per user specification.

Work Table Size 4'x2'x2' (WxDxH) In Feet Tolerance $\pm 5\%$

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

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ASE-134(B SS) HORIZONTAL / VERTICAL LAMINAR FLOW CABINET

"ALPHA" Laminar Flow Cabinets are designed so as to meet the requirements of US Federal Standard 209 B conditions. Exterior Fabricated from Stainless steel 304. The work table is made of thick Stainless steel 304 grade at top. Front panel movable transparent scratch resistant sheet of approx 5mm/6mm thickness in Aluminium frame. Side panels are made out of thick transparent plexi glass. The unit is fitted with pre-filter and HEPA Filter. Air is drawn through pre-filter disposable fiber glass with Filtration efficiency of 98% for all type of particles of size 8 micron and larger and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.997% with cold DOP and 99.97% with hot DOP, thus retaining all air-borne particles of size 0.3 micron and larger.

Digital Microprocessor based for better with filter failure alarm controller switches for blower, LED light & U V Light 15/30 watt, LED white light with LED back light display UV light with timer.

Using a dynamic balancing machine, the blower and motor assembly is statically and dynamically balanced. Motor of 1/4 H.P. capacity operates with minimum noise level db <65 db A. Unit will be supplied with HEPA, Pre filters, pressure Manometers, Gas inlet nozzle floor leveling screws & wire code & cock. The working area is illuminated by fluorescent lighting fitted to the unit. The height of the working table provides a comfortable "SIT DOWN" working position for the operator. To work on 220/230 volts A.C. Supply. Pre-filters: disposable fiber glass. HEPA filter air ISO 14644 class 5: choice of HEPA (rated 99.97% efficient @ 0.3µm particles) or ULPA (rated 99.99% efficient @ 0.12µm particles). Lighting: Fluorescent type with lux >800 & UV light. Air circulation 70%, Exhaust 30%, fresh air 30%. FFU airflow: 650 CFM (2" x 4"), 460 (2" x 3") of air at filter pressure drop from 0.35 to 0.795" W.G at 90 FPM. On and off timer indicator for UV light along with total time usage of UV light. Power Supply 220V.50/60HZ. Other changes will be done on request as per user specification. "Work Table Size 120x60x60 (WxDxH) CM Feet Tolerance +5%

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ASE-134 Laminar Flow Cabinet

"ALPHA" Laminar Flow Cabinets are designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet class 100 (Class I) conditions. Fabricated from welded 16 gauge C.R. steel includes adjustable levelers. Exterior surface feature a chip-resistant, power coated finish of approximately 0.6mm thickness for its longer life. The work table is made of thick Stainless steel 304 grade at top. Front panel movable transparent scratch resistant sheet of approx 6mm thickness in Aluminium frame. Side panels are made out of thick transparent plexi glass. The unit is fitted with pre-filter and HEPA Filter. Air is drawn through pre-filter disposable fiber glass with Filtration efficiency of 98% for all type of particles of size 8 micron and larger and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.997% with cold DOP and 99.97% with hot DOP, thus retaining all air-borne particles of size 0.3 micron and larger.

Using a dynamic balancing machine, the blower and motor assembly is statically and dynamically balanced. Motor of 1/4 H.P. capacity operates with minimum noise level. Unit will supplied with HEPA, Pre filters, Manometers, Florescent tube, U.V. Light & cock. The working area is illuminated by fluoresecent lighting fitted to the unit. The height of the working table provides a comfortable "SIT DOWN" working position for the operator. To work on 220/230 volts A.C. Supply. Pre-filters: disposable fiber glass. HEPA filter: choice of HEPA (rated 99.97% efficient@ 0.3µm particles) or ULPA (rated 99.99% efficient @ 0.12µm particles) Lighting: Fluorescent type with lux >800 & UV light. Air circulation 70%, Exhaust 30%, fresh air 30%. FFU airflow: 650 CFM (2" x 4"), 460 (2" x 3") of air at filter pressure drop from 0.350.795" W.G at 90 FPM. On and off timer indicator for UV light along with total time usage of UV light. On sight annual calibration and validation. On site counting of dust particles in laminar air flow chamber annually under guarantee. At the time of supply. Provision of hanging the blood bag in cabin during preparation of components.

Other changes will be done on request or as per user specification.

Work Table Size 4'x2'x3.5' (WxDxH) In Feet Tolerance $\pm 5\%$

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ASE-134 (B) LAMINAR FLOW CABINET ALPHATM

Type of Air Flow : VERTICAL Cleanliness Level : Less than 3.5 particles/ litre of 0.5 um and larger Noise Level : Less than 65 db Vibration Level : Less than 2.5 um **CONSTRUCTION** : Main Body : M S Powder Coated. Table Top : Stainless Steel [(304 grade)] Non-Perforated **INCLUSIVE OF STANDARD ACCESSORIES** • HEPA Filters - 99.99% efficiency for 0.3 micron with integral metal guards & filter frame gaskets manufactured in super clean Air- Conditioned environment for longer life. • Motor -Blower assembly statically and dynamically balanced fitted with special vibration reducing pads to suit low noise and vibrations. (Suitable for 500cfm) • Front Door- U.V. Tolerant Poly Carbonate (6 mm) • Side Covers- U.V. Tolerant Poly Carbonate/Toughened Glass • Fluorescent Light - Low energy choke less to stand larger fluctuations in voltage. Light Intensity more than 800 lux.

- U.V. Lamp - In working zone. So placed that you can not see directly i.e. eyes are always protected.
- Support Stand -with leveling Screws adjustable from 55- 85mm
- Laboratory Cocks for Gas & Air • Switches & Electrical socket outlets (15/5 amp- 1 no)
- Magnehelic Gauge Top Cover for lights • Pre Filter
- Power Requirement - 0.5 KW Single Phase The laminar flow will be validated at time of installation and every 6 months HEPA filters will be changed as and when required

Model	LSC-222	LSC-422	LSC-622
Working Table Size	2'x2'x2'	4'x2'x2'	6'x2'x2'
Size of HEPA Filter	2'x1.5'x6"	4'x1.5'x6"	3'x1.5'x6"
No Of HEPA Filters	1	1	2
Illumination by fluorescent light	1x20or 40W	2x20 or 40W	1X40W

OPTIONAL ACCESSORIES

- Satin Finish Non glaring S.S. Table Top
Made out of thick 18SWG
- Static Pressure Manometer to asses pressure in HEPA Filters.

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ASE-134 (B) LAMINAR FLOW CABINET ALPHA^R

Type of Air Flow : VERTICAL Cleanliness Level : Less than 3.5 particles/ litre of 0.5 um and larger Noise Level : Less than 65 db Vibration Level : Less than 2.5 um **CONSTRUCTION** : Main Body : Stainless Steel. Table Top : Stainless Steel [(304 grade)] Non-Perforated **INCLUSIVE OF STANDARD ACCESSORIES** • HEPA Filters - 99.99% efficiency for 0.3 micron with integral metal guards & filter frame gaskets manufactured in super clean Air- Conditioned environment for longer life. • Motor -Blower assembly statically and dynamically balanced fitted with special vibration reducing pads to suit low noise and vibrations. (Suitable for 500cfm) • Front Door- U.V. Tolerant Poly Carbonate (6 mm) • Side Covers- U.V. Tolerant Poly Carbonate/ Toughened Glass • Fluorescent Light - Low energy choke less to stand larger fluctuations in voltage. Light Intensity more than 800 lux. **Certification CE, IVD & FDA certificate approved.**

Circulation down flow velocity of 40-70 fpm, ISO class 5/Higher air • U.V. Lamp - In working zone. So placed that you can not see directly i.e. eyes are always protected. • Support Stand -with leveling Screws adjustable from 55- 85mm • Laboratory Cocks for Gas & Air • Switches & Electrical socket outlets (15/5 amp- 1 no) • Magnehelic Gauge Top Cover for lights • Pre Filter
• Power Requirement - 0.5 KW Single Phase The laminar flow will be validated at time of installation and every 6 months HEPA filters will be changed as and when required

Model	LSC-222	LSC-422	LSC-622
Working Table Size	2'x2'x2'	4'x2'x2'	6'x2'x2'
Size of HEPA Filter	2'x1.5'x6"	4'x1.5'x6"	3'x1.5'x6"
No Of HEPA Filters	1	1	2
Illumination by fluorescent light	1x20 or 40W	2x20 or 40W	1X40W

OPTIONAL ACCESSORIES

- (a) Satin Finish Non glaring S.S. Table Top
Made out of thick 18SWG
- (b) Static Pressure Manometer to asses pressure in HEPA Filters.

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ASE-134



ASE-135



ASE-137

ASE-134 Horizontal Laminar Flow Cabinet

"ALPHA" Horizontal Laminar Flow Cabinets are designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet class 100 (Class I) conditions. The cabinets are fabricated out of thick board duly sunmica clad / PCRC MS sheet Epoxy Paint / Stainless Steel 304 grade. Interior surfaces are epoxy painted for its longer life. The work table is made of thick board which is sunmica clad / Stainless Steel at top. Side panels are made out of thick board which is sunmica clad / PCRC MS sheet Epoxy Paint / Stainless Steel at top. Side panels are made out of thick transparent plexi glass duly framed. The unit is fitted with pre-filter and HEPA Filter. Air is drawn through pre-filter and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.99% with cold DOP and 99.97% with hot DOP, thus retaining all airborne particles of size 0.2 / 0.3 micron and larger. Air flow 90±20% fmp laminar. Using a dynamic balancing machine, the blower and motor assembly is statically and dynamically balanced. Motor of 1/4 H.P. capacity operates with minimum noise level. The working area is illuminated by fluorescent lighting fitted to the unit. To work on 220/230 volts A.C. (single phase) Supply. Providing : Unit with acrylic side & front panels and detachable, Cock for gas and vacuum line, Provisions for UV and fluorescent light in the chamber, Washable synthetic non woven prefilters, Motor blower assemblies mount on the vibration mounts for minimum vibration i.e.0.0001 average displacement on work table, and noise level less than 65 db on 'A' scale at work table edge. **Available in Standard and Deluxe Models. Other changes will be done on request or as per user specification..**

Available in following models : In Complete Stainless Steel or Wooden board with sunmica clad as per demand

Model	LH-22	LH-32	LH-42	LH-62	LH-82
Working Area	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'	8'x2'x2'
Size of HEPA Filter	2'x2'x6"	3'x2'x6"	4'x2'x6"	3'x2'x6"	4'x2'x6"
No. of HEPA Filter	1	1	1	2	2
illumination	1x20W	1x20W	2x40W	2x40W	4x40W

ASE-135 Innoculation Chamber or U V Lamp with cabinet.

Meant of seasoned teak wood with thick ply-board on top & bottom and plywood on back. Thick non-attng glass provided on two sides and front slanting glass door. Front side slanting parovided with openable glass door for convenient view of the specimens placed inside. Lower portion is provided with glove ports

Other changes will be done on request or as per user specification.

(a) Outsise Size : 40" x 24" x 22" (b) Outsise Size : 27" x 20" x 16" (c) Outsise Size : 24" x 24" x 24"

ASE-137 Vertical Laminar Air Flow System

Details same as **ASE-134** But with laminar air flowing down vertically from top towards the work table. Supplied complete with Static Finish S.S. Table Top Transparent front door (5 mm) Static Pressure manometer, Built in U.V germicidal light and cock for gas, air or vacuum line.**Other changes will be done on request or as per user specification..**

Model	LH-22	LH-32	LH-42	LH-62	LH-82
Working Area	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'	8'x2'x2'
Size of HEPA Filter	2'x2'x6'	3'x2'x6'	4'x2'x6'	3'x2'x6'	4'x2'x6'

Available in following sizes : Complete S.Steel or Wooden as per demand

Model	OLF-32	OLF-34	OLF-36	OLF-38	OLF-42	OLF-62	OLF-82
HEPA Area	3'x2'	3'x4'	3'x6'	3'x6'	4'x2'	6'x2'	6'x2'
No. of HEPA	1	2	3	4	1	2	3

OPTIONAL ACCESSORIES for ASE-134 & 137

- | | | | |
|---------------------------------|---------------------------------------|---|--------------------------------|
| (a) Satin Finish S.S. table top | (d) Built in U.V. Germicidal light. | (i) Virus burn out unit. | top to down words positions or |
| (1) Made out of thick 22 SWG | (e) Protection Lamination film | (j) Manometer | from front to down words |
| (2) Made out of thick 18 SWG | (f) Cock for gas, air or vacuum line | (k) Built in U.V. | positions. |
| (b) Transparent front door. | (g) Exhaust System for 6 feet duct | (l) Germicidal Light. | |
| (c) Static Pressure Manometer. | (h) Exhaust Ducting (per runing feet) | (m) Air flow system can be arrange from | |

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ASE-134(a)



ASE-134(b)

ASE-134 Horizontal / Vertical Laminar Flow Cabinet ALPHATM

"ALPHA" Horizontal Laminar Flow Cabinets are designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet class 100 (Class I) conditions. The cabinets are fabricated out of Stainless steel 304. Interior surfaces are epoxy painted for its longer life. The work table is made of thick Stainless steel at top. Side panels are made out of thick transparent plexi glass du ly Aluminium framed. The unit is fitted with pre-filter and HEPA Filter. Air is drawn through pre-filter and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.997% with cold DOP and 99.97% with hot DOP, thus retaining all air-borne particles of size 0.3 micron and larger.

Using a dynamic balancing machine, the blower and motor assembly is statically and dynamically balanced. Motor of 1/4 H.P. capacity operates with minimum noise level. Unit will supplied with HEPA, Pre filters, Manometers, Flourescent tube, U.V. Light & cock. The working area is illuminated by flourescent lighting fitted to the unit. The height of the working table provides a comfortable "SIT DOWN" working position for the operator. To work on 220/230 volts A.C. Supply. Construction fabricated from welded 16 gauge C.R. steel includes adjustable levelers. Work surface: 304 stainless steel/powder coated C. R. steel. Finish: exterior surface feature a chipresistant, powdercoated finish. Prefilters: disposable fiber glass. HEPA filter: choice of HEPA (rated 99.97% efficient@ 0.3µm particles) or ULPA (rated 99.99% efficient @ 0.12µm particles) Lighting: Fluorescent type with lux>800 & UV light. Air circulation 70%, Exhaust 30%, fresh air 30%. FFU airflow: 650 CFM (2" x 4"), 460 (2" x 3") of air at filter pressure drop from 0.350.795" W.G at 90 FPM.

Other changes will be done on request or as per user specification..

External size 1320 x 950 x 1900mm (W x D x H)

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ASE-134(a)

ASE-134a Laminar Air Flow Cabinet (Small Machine Types) ALPHA[®]

Laminar Flow Cabinets are designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet class 100 (Class I) conditions. The cabinets are fabricated out of Stainless steel 304 1 mm thick. Interior surfaces are epoxy painted for its longer life. The work table is made of thick Stainless steel at top. Side panels are made out of thick transparent plexi glass duly Aluminium framed.

Table Top Model.

Inner and outer body made are stainless steel 304, 1 mm thick.

Vertical Air flow and Pre-filter 99% down to 5m (Washable)

HEPA Filter of D.O.P. Tasted having efficiency 99.97% down to 0.3m

Noise Level Exceed 100ft candles in working area >1000lux

Power supply 230 volt/50Hz Single phase AC.

- a. U.V. Lamp : 15 W make Phillips 1 Nos.
- b. Light : 20 W make Phillips 2 Nos.
- c. Pressure : Manometer 0-50 WG
- d. Switch : Switches for Blower, Fluorescent Light, U.V. Light
- e. Work table : Made are stainless steel 18 SWG 304 Gr.
- f. Heavy duty : Dynamically balanced motor blower assemblies are mounted vibration pads.
- g. Front & side door : Polycarbonate Plaxi Glass transparent sheet thick 6 mm

Available in following models : In Complete Stainless Steel

Model	LH-22	LH-32	LH-42
Working Area	25"x24.5"x25.7"	36"x24.5"x25.7"	48"x24.5"x25.7"
Size of HEPA Filter	2'x2'x6"	3'x2'x6"	4'x2'x6"
No. of HEPA Filter	1	1	1
illumination	1x20W	1x20W	2x40W

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