



LAMINAR AIR FLOW





LAMINAR Air Flow VERTICAL

SALIENT FEATURES

- ✦ Ergonomic Design
- ✦ Versatile Usage
- ✦ Low Noise And Vibration Levels
- ✦ Conforms to US Federal Standard 209 B
- ✦ Calibration And Protocol Documentation



PRODUCT OVER VIEW

Our **VERTICAL LAMINAR AIR FLOWS** are conceptualized to provide a work area completely bathed in high efficiency perfect air, which is free from any kind of particulate contamination or impurities. These units are ideally suited in all the applications, requiring protection of biological specimens or products from the possible contamination during the process or test. Our laminar air flow bench is fast gaining popularity in other fields, such as pharmaceutical production, electronic industries and various other manufacturing applications.

PROCESS EXPLANATION: LAMINAR AIR FLOW TECHNOLOGY

Laminar Air Flow are clean benches which have their own supply of highly purified air in which the total air present in the enclosure moves in a uni directional velocity flowing in parallel lines, which is free from macroscopic fluctuations. The vertical laminar air flow units directs the air in mono direction which is towards the specimen and away from the user, giving ultimate protection to the user who is susceptible to contamination induced by diffusion of contaminated air, generated while handling hazardous pathogens, bacteria, viruses etc.

CLASSIFICATIONS:

Laminar Air Flow

All the vertical laminar air flow benches are classified into three broad categories as per US Federal Standards 209 B Ans 209 E (latest revision on 11.09.92). As per this standard the particle count in the existing air around the work table is taken into account.

Vertical Laminar air Flow Class 100

These laminar air flow units are those where the particle count of size 0.5 micron and larger is less than one hundred particle/ cubic feet, in the area of work.

Vertical Laminar Air Flow Class 10,000

These laminar air flow units are those where the particle count of size 0.5 micron and larger, is less than ten thousand particle per cubic feet or sixty particle per cubic feet of dimension larger than five micron and bigger size in the area of work.

Vertical Laminar Air Flow Class 1,00,000

These laminar air flow units are those, where the particle count of size 0.5 micron and larger is less than one lac particle per cubic feet or seven hundred particles per cubic feet of dimensions five micron or larger. In the area of work.

Construction Details Of Vertical Laminar Air Flow

Basic Construction:

Our Vertical laminar air flow bench are designed to conform to the united states federal standard 209B/BS5295 and meets the class 100 conditions. Our units are fabricated of industrial grade wooden boards covered with mica sheets. The inner portion of all our laminar air flows are painted with epoxy paint coating for extra long life. The working table is made of heavy gauge stainless steel sheet of grade ss-304. The side panels made out of heavy plexi glass sheets are mounted on anodized aluminum frames. The whole unit is supplied with differential manometer to gauge the pressure drop in the unit while operation, beside the gas cock, power socket etc



LAMINAR Air Flow VERTICAL

Filter Assembly

All our laminar air flows are fitted with fully washable synthetic pre-filter units and secondary high efficiency perfect air filters made of mini pleated non woven fabric. The efficiency of our filters have a rating better than 99.99% at DOP (cold) and 99.97% at DOP (Hot). Our units have the capacity to hold all suspended particles of size > 0.3 micron.

Motor And Blower Assembly

All our Vertical laminar air flow units are provided with perfectly balanced (Static as well as dynamic) motor and blower motors bearing ISI mark. The rating of the assembly is 1/5 HP. Our high efficiency pumps which have life long lubricated bearings ensure a trouble free operation for a long time.

Illumination

All the units are provided with adequate illumination at the work table by means of fluorescent lights panel concealed at the upper portion of the unit. This light arrangement conforms to the guidelines laid down in US federal standard . The illumination at the work table is approx > 800 lux.

Ultra Violet Light

Optimal wattage ultra violet light is incorporated in the illumination panel of our laminar air flow to take care of the sterilization of the existing air present in the enclosure, thus ensuring the high standard of cleanliness in our equipment before the commencement of actual working.

Noise Level

Our laminar air flow bench are designed to ensure that the work enclosure have minimum possible vibration levels and noise level is also contained below 55 db.

APPLICATIONS:

Our Vertical laminar air flows have a variety of applications such as

- 1) Quality control labs of pharmaceutical Industries.
- 2) Quality control labs of food processing industries.
- 3) Quality control labs of micro circuit and electronic assembly and manufacturing applications.
- 4) Deoxy Ribonucleic Acid Thermo cycling.
- 5) General Laboratory applications in Biotechnology.
- 6) General Laboratory applications Microbiology.

Technical Matrix: Vertical Laminar Air Flow

Constructions	Industrial grade mica clad wooden board
Table	Stainless steel sheet table of ss-304 grade
Pre Filter	Washable pre-filter unit
HEPA Filters	Glass pleated non woven fabric filter having 99.99% efficiency 0.3 micron particle size.
Air Flow	Unidirectional
Air Flow Control	Three Step air flow speed controller
Blower Assembly	Centrifugal lubricated bearing type ISI marked assembly
Illumination	Fluorescent light illumination greater than 800 lux on work table
Noise level	Noise level less than 54 db
Add on features	Gas/air/vacuum line cock
Power Requirements	500 watts – 750 watts (Model specific)
Internal Work Space	600mmx600mmx600mm/ 900mmx600mmx600mm/ 1200mmx600mmx600mm /1800mmx 600mmx600mm
Nominal voltage	220-230 Volts, 50 Hz Single Phase
Frequency	50



LAMINAR Air Flow HORIZONTAL

SALIENT FEATURES

- ✦ Ergonomic Design
- ✦ Versatile Usage
- ✦ Low Noise And Vibration Levels
- ✦ Conforms to US Federal Standard 209 B
- ✦ Calibration And Protocol Documentation



PRODUCT OVER VIEW

Our **LAMINAR AIR FLOWS** are conceptualized to provide a work area completely bathed in high efficiency perfect air, which is free from any kind of particulate contamination or impurities. These units are ideally suited in all the applications, requiring protection of biological specimens or products from the possible contamination during the process or test. Our laminar air flow bench is fast gaining popularity in other fields, such as pharmaceutical production, electronic industries and various other manufacturing applications.

PROCESS EXPLANATION: LAMINAR AIR FLOW TECHNOLOGY

Laminar air flow are clean benches which have their own supply of highly purified air in which the total air present in the enclosure moves in a uni directional velocity flowing in parallel lines, which is free from macroscopic fluctuations. The horizontal laminar air flow units directs the air in mono direction which is away from the specimen and towards the user, giving ultimate protection to the product, which is susceptible to contamination induced by diffusion of contaminated air carrying air transported contaminants from the outside environment.

CLASSIFICATIONS:

Laminar Air Flow

All the laminar air flows are classified into three broad categories as per US Federal Standards 209 B Ans 209 E (latest revision on 11.09.92). As per this standard the particle count in the existing air around the work table is taken into account.

Vertical Laminar air Flow Class 100

These laminar air flow units are those where the particle count of size 0.5 micron and larger is less than one hundred particle/ cubic feet, in the area of work.

Vertical Laminar Air Flow Class 10,000

These laminar air flow units are those where the particle count of size 0.5 micron and larger, is less than ten thousand particle per cubic feet or sixty particle per cubic feet of dimension larger than five micron and bigger size in the area of work.

Vertical Laminar Air Flow Class 1,00,000

These laminar air flow units are those, where the particle count of size 0.5 micron and larger is less than one lac particle per cubic feet or seven hundred particles per cubic feet of dimensions five micron or larger. In the area of work.

Construction Details Of Horizontal Laminar Air Flow

Basic Construction:

Our horizontal laminar air flow bench are designed to conform to the united states federal standard 209B/BS5295 and meets the class 100 conditions. Our units are fabricated of industrial grade wooden boards covered with mica sheets. The inner portion of all our laminar air flows are painted with epoxy paint coating for extra long life. The working table is made of heavy gauge stainless steel sheet of grade ss-304. The side panels made out of heavy plexi glass sheets are mounted on anodized aluminum frames. The whole unit is supplied with differential manometer to gauge the pressure drop in the unit while operation, beside the gas cock, power socket etc



LAMINAR Air Flow HORIZONTAL

Filter Assembly

All our laminar air flows are fitted with fully washable synthetic pre-filter units and secondary high efficiency perfect air filters made of mini pleated non woven fabric. The efficiency of our filters have a rating of better than 99.99% at DOP (cold) and 99.97% at DOP (Hot). Our units have the capacity to hold all suspended particles of size > 0.3 micron.

Motor And Blower Assembly

All our laminar air flow units are provided with perfectly balanced (Static as well as dynamic) motor and blower motors bearing ISI mark. The rating of the assembly is 1/5 HP. Our high efficiency pumps which have life long lubricated bearings ensure a trouble free operation for a long time.

Illumination

All the units are provided with adequate illumination at the work table by means of fluorescent lights panel concealed at the upper portion of the unit. This light arrangement conforms to the guidelines laid down in US federal standard . The illumination at the work table is approx > 800 lux.

Ultra Violet Light

Optimal wattage ultra violet light is incorporated in the illumination panel of our laminar air flow to take care of the sterilization of the existing air present in the enclosure, thus ensuring the high standard of cleanliness in our equipment before the commencement of actual working.

Noise Level

Our laminar air flow bench are designed to ensure that the work enclosure have minimum possible vibration levels and noise level is also contained below 55 db.

APPLICATIONS

Our Vertical laminar air flows have a variety of applications such as

- 1) Quality control labs of pharmaceutical Industries.
- 2) Quality control labs of food processing industries.
- 3) Quality control labs of micro circuit and electronic assembly and manufacturing applications.
- 4) Deoxy Ribonucleic Acid Thermo cycling.
- 5) General Laboratory applications in Biotechnology.
- 6) General Laboratory applications Microbiology.

Technical Matrix: Horizontal Laminar Air Flow

Constructions	Industrial grade mica clad wooden board
Table	Stainless steel sheet table of ss-304 grade
Pre Filter	Washable pre-filter unit
HEPA Filters	Glass pleated non woven fabric filter having 99.99% efficiency 0.3 micron particle size.
Air Flow	Unidirectional
Air Flow Control	Three Step air flow speed controller
Blower Assembly	Centrifugal lubricated bearing type ISI marked assembly
Illumination	Fluorescent light illumination greater than 800 lux on work table
Noise level	Noise level less than 54 db
Add on features	Gas/air/vacuum line cock
Power Requirements	500 watts – 750 watts (Model specific)
Internal Work Space	600mmx600mmx600mm/ 900mmx600mmx600mm/ 1200mmx600mmx600mm /1800mmx 600mmx600mm
Nominal voltage	220-230 Volts, 50 Hz Single Phase
Frequency	50



Bio Safety Cabinet

SALIENT FEATURES

- ✦ Ergonomic Design
- ✦ Versatile Usage
- ✦ Low Noise And Vibration Levels
- ✦ Conforms to US Federal Standard 209 B
- ✦ Calibration And Protocol Documentation



PRODUCT OVER VIEW

Our **BIO SAFETY CABINET** are conceptualized and designed to provide a work area that is completely bathed in high efficiency perfect air, which is free from any kind of particulate contamination. These bio safety cabinets are indispensable when the user is working with potentially infectious bio hazardous agents, bacteria and viruses.

Our **BIO SAFETY CABINETS** ensure the triple protection to the personnel, environment and the product by trapping the potentially harmful micro organisms inside the filters.

PROCESS EXPLANATION

Our **BIO SAFETY CABINETS** incorporate all the standard features of a vertical laminar air flow combined with the unique capability to be used in conditions that require material, personnel and environment protection within the enclosure, from extra-neous contaminants that are airborne. This is accomplished in our bio safety units with the help of a uniquely designed and strategically located high efficiency perfect air filters made of non woven superior grade pleated media. The air inside the unit is circulated and re-circulated through these filters to ensure maximum protection by the inward air flow at a constant face velocity, thus creating a negative pressure of approximately 0.5" or more. The intake of the air is also derived through primary HEPA filters located at the pre filter unit of the unit.

CLASSIFICATIONS OF BIO SAFETY CABINET

Bio Safety Cabinet Class I

The class I bio safety cabinets have an open front design and works on the principle of negative pressure generation. The exhausted air is filtered through high efficiency perfect air filter before disbursing in the environment.. This bio safety cabinet is ideal to be used where user protection and environmental protection is key.

Bio Safety Cabinet Class II

Bio safety cabinet class II also have an open front design provided with negative pressure generation module. This equipment provides recirculation of mass flow of HEPA filtered air. This type of bio safety cabinets provides excellent protection to users, products and the environment.

Bio safety Cabinet Class III

Bio safety cabinet class III is a totally closed compact and purely ventilated enclosure having an air tight construction. All the experiments/procedures are performed through rubber gloves, which are provided at the front of the unit. The primary feature of class III bio safety cabinets is that they maintain negative pressure of 0.5" or more while in operation. The supplies of fresh air are taken inside the enclosure through specially designed high efficiency perfect air filters. The exhausted air of the unit is passed through two modules of HEPA filters, which are strategically placed in series. The air passes through the two filters before being discharged in the environment. These type of bio safety cabinet have complete self sustained exhaust system.

CONSTRUCTION DETAILS OF BIO SAFETY CABINET

Basic Construction

Our bio safety cabinet is designed to conform to the united state federal standard 209B/BS5295 and meets the class 100 conditions along with British standard 5726-Appendix A. Our units are fabricated of industrial grade wooden boards covered with mica sheets.



Bio Safety Cabinet

The inner portion of all our bio safety cabinets is painted with epoxy paint coating for extra long life. The working table is made of heavy gauge stainless steel sheet of grade ss-304. The side panels made out of heavy plexi glass sheets are mounted on anodized aluminum frames. The whole unit is supplied with differential manometer to gauge the pressure drop in the unit while operation, beside the gas cock, power socket etc.

Filter Assembly

All our bio safety cabinets are fitted with fully washable synthetic pre-filter units and secondary high efficiency perfect air filters made of mini pleated non woven fabric. The efficiency of our filters have a rating better than 99.99% at DOP (cold) and 99.97% at DOP (Hot). Our units have the capacity to hold all suspended particles of size > 0.3 micron.

Motor And Blower Assembly

All our bio safety cabinets are provided with perfectly balanced (Static as well as dynamic) motor and blower motors bearing ISI mark. The rating of the assembly is 1/5 HP. Our high efficiency pumps which have life long lubricated bearings ensure a trouble free operation for a long time.

Illumination

All the units are provided with adequate illumination at the work table by means of fluorescent lights panel concealed at the upper portion of the unit. This light arrangement conforms to the guidelines laid down in US federal standard. The illumination at the work table is approx > 800 lux.

Ultra Violet Light

Optimal wattage ultra violet light is incorporated in the illumination panel of our bio safety cabinets to take care of the sterilization of the existing air present in the enclosure, thus ensuring the high standard of cleanliness in our equipment before the commencement of actual working.

Noise Level

Our bio safety are designed to ensure that the work enclosure have minimum possible vibration levels and noise level is also contained below 60 db.

APPLICATIONS

Our bio safety cabinets have a variety of applications such as

- 1) Quality control labs of pharmaceutical Industries.
- 2) Quality control labs of food processing industries.
- 3) Quality control labs of micro circuit and electronic assembly and manufacturing applications.
- 4) Deoxy Ribonucleic Acid Thermo cycling.
- 5) General Laboratory applications in Biotechnology.
- 6) General Laboratory applications Microbiology.
- 7) General Laboratory applications Tissue Culture.
- 8) General Laboratory applications Genetic engineering.



Bio Safety Cabinet

Technical Matrix: Bio Safety Cabinet

Constructions	Industrial grade mica clad wooden board
Cleanliness (Class)	Class 100
Face velocity	90 ft/min + 20 feet
Table	Stainless steel sheet table of ss-304 grade
Pre Filter	Washable pre-filter unit (Non Woven-Synthetic Polyester)
HEPA Filters	Glass pleated non woven fabric filter having 99.99% efficiency 0.3 micron particle size.
Pressure Drop	23 mm
Air Flow	Re-Circulated
Air Flow Control	Three Step air flow speed controller
Blower Assembly	Centrifugal lubricated bearing type ISI marked assembly
Illumination	Fluorescent light illumination greater than 800 lux on work table
Noise level	Noise level less than 60 db
Add on features	Gas/air/vacuum line cock
Power Requirements	500 watts – 750 watts (Model specific)
Internal Work Space	600mmx600mmx600mm/ 900mmx600mmx600mm/ 1200mmx600mmx600mm /1800mmx 600mmx600mm
Nominal voltage	220-230 Volts, 50 Hz Single Phase
Frequency	50

Note: We undertake to manufacture customized sizes of bio safety cabinet as per the specific requirements.



FUME Hood

SALIENT FEATURES

- ✦ Ergonomic Design
- ✦ Energy Efficient Mechanism
- ✦ Low Noise Levels
- ✦ Conforms To ASHRAE-110-1995 (British Standard) Testing Method.



PRODUCT OVER VIEW

Our **CHEMICAL FUME HOODS** are conceptualized and designed to provide a work area which is free from all the potentially hazardous fumes or chemical effluents that may be emitted during the course of a given experiment or procedure in a laboratory.

Our FUME HOODS capture the fumes released during an experiment by drawing fresh air from the environment, past the user into the unit.. This way the concentration of the chemical fumes/effluents are kept at the minimum possible levels in and around the breathing zone of the user. The vector of the air in the fume hood points to the inward direction and perpendicular to the face of the user. The velocity of the air is controlled at approximately 80 feet per minute, so as to control the particle kinetics of various aerosols and diffused gases.

CONSTRUCTION DETAILS

Our fume hoods are developed to be used as semi closed ventilated enclosures so as to protect the user from harmful and toxic fumes and vapors and to eliminate the possibility of accidental fire, which may be resulted due to the emission of inflammable gases during the course of a given experiment. Hence the material of construction of all our fume hoods are carefully chosen between industrial grade fire resistant commercial wooden boards covered with laminated sheets and lined completely with epoxy coating/FRP lining or corrosion resistant steel sheets having epoxy coating from inside, duly painted with attractive stove enamel/air drying spray paint.. The work table is made of heavy gauge construction material fortified with acid proof glazed tiles/ stainless steel grade ss-304. The work bench is provided with a small sink made of stainless steel grade ss-304. All our fume hoods are provided with sliding sash made out of special grade shatter proof glass duly framed in wooden/aluminum frame with sliding motion and counter weight balanced mechanism. Our units ensure minimum illumination level of approx 800 lux on the work table. The unit is equipped very diligent heavy duty exhaust system, comprising of dynamically balanced centrifugal impeller with high speed motor of approx 1440 RPM (Three Phase-Crompton Greaves) which is controlled by DOL starter.

TECHNICAL PARAMETERS OF CHEMICAL FUME HOODS

The explanation of technical parameters of our fume hoods are as under.

Air Velocity

Our fume hood ensure that the optimum face velocity of 80 feet – 100 feet per minute is maintained with an accuracy of + 10 feet/minute with the sash in complete open position.

Volume Of Exhaust

Our fume hoods are capable of maintaining a constant exhaust volume . The maximum variation permissible due to baffle adjustment, in our in house test procedure is 6% of the given volume of exhaust.

Testing Procedures Of Containment

Our fume hoods conforms to the performance test as per ASRAE-110-1995 British Standards of testing performance of chemical hoods. They have a AM (As manufactured) rating of 0.05 ppm/4 LPM at fully opened sash.



Fume Hood

Pressure (Static)

Our fume hoods are designed to minimize the loss of static pressure at a given baffle opening position. As per our standard procedures the average loss of static pressure at any given four points at ninety degree angle and 3 duct dia from the fume hood will not exceed 75 feet per minute at 0.25 inch, with full sash opening and face velocity of 100 feet per minute.

Noise/Sound Levels

Our fume hoods are designed to generate lower noise levels. The performance of our fume hoods are rated better than the industry standards of 60 db, at approximately 15 cm distance from the sash.

Illumination Levels At work Space

Our fume hood ensure that a minimum of 800 lux light is available on the work table through the diffuser fluorescent light arrangement.

Exhaust Assembly

Our fume hoods are provided with a very strong and high end exhaust system having a range of 500 – 1250 CFM (designed as per the size of the hood). The exhaust assembly consists of a dynamically balanced centrifugal impellers which are coupled with a heavy duty three phase motor of crompton greaves/equivalent.

Exhaust Ducting

Our fume hoods are provided with suitable FRP ducting of required dimension as per the individual requirements of the user.

Technical Matrix: Fume Hood

Constructions	Industrial grade mica clad wooden board/ Steel
Table	Stainless steel sheet table of ss-304 grade/fortified acid proof glazed tiles
Sink	Stainless steel sink with tap
Coating	Epoxy coating / FRP lined
Air Flow	Unidirectional.
HEPA Filters	Glass pleated non woven fabric filter having 99.99% efficiency 0.3 micron particle size.
Pressure Drop	23 mm
Air Flow	Re-Circulated
Air Flow Control	Three Step air flow speed controller
Blower Assembly	Centrifugal lubricated bearing type ISI marked assembly
Illumination	Fluorescent light illumination greater than 800 lux on work table
Noise level	Noise level less than 60 db
Add on features	Gas/air/vacuum line cock
Power Requirements	500 watts – 750 watts (Model specific)
Internal Work Space	4'x 2' x 2' / 5' x 2 1/2' x 2 1/2' / 6'x 3' x 3' (Length x Depth x Height)
Nominal voltage	220-230 Volts, 50 Hz Single Phase
Frequency	50

Standard Models (inner Dimension)

	Models No.	Dimension (Length x Depth x Height)
A	Acm-Cafh-1200	4'x 2' x 2'
B	Acm-Cafh-1503	5' x 2 1/2' x 2 1/2'
C	Acm-Cafh-1803	6'x 3' x 3'

Note: We undertake to manufacture fume hood of customized sizes as per the specific requirements.



Air Shower

SALIENT FEATURES

- ✦ Ergonomic Design
- ✦ Versatile Usage
- ✦ Low Noise And Vibration Levels
- ✦ Conforms to US Federal Standards
- ✦ Calibration And Protocol Documentation
- ✦ Programmable operation



PRODUCT OVERVIEW AND EXPLANATION

Our **AIR SHOWER** is a fully self contained unit with high degree of maneuverability. They are fully equipped to provide complete de-contamination solutions to the clean room or manufacturing/assembly area from personnel entering the space. The ease of operation of our air shower is such that, one just needs to roll it at the door of the clean room, plug in and it is ready to be used.

Our AIR SHOWERS are closed cubicles and work on the principle of subjecting the personnel through adequate velocity of clean air coming through a pre filter assembly comprising of poly fiber synthetic media of approximately 1" thickness (washable). And then the same air is passed through a high efficiency perfect air filter made from glass pleated non woven filter media having a minimum efficiency of 99.99% at 0.3 micron particle size.

The normal face velocity of air coming through different jets of the air shower have a thorough cleaning effect and dislodges the suspended/stuck particles lying on the surface of the garment/body of the personnel entering the air shower and thus making him/her virtually free from the particulate matter.

CONSTRUCTION DETAILS

Our air showers are constructed out of heavy industrial grade wooden mica clad wooden boards or stainless steel sheets of grade ss-304/ss-316. The internal cubicle of air showers are plastic laminated and attractively finished. The unit is provided with blower access panel at the side of the shower. The two doors provided on the either side of the air shower are inter locked and operate on magnetic system.

The compartment access panels are hinged and made of coated aluminum. The doors are made of aluminum panel and have clear view glass/acrylic windows.

The HEPA filter and pre-filter assembly is mounted on the top of the air shower. The unit is controlled through a programmable solid state circuit control system, located at the junction box of the unit. This control unit facilitates the user to adjust the air nozzles and operation time. The operation timer of the air shower can be adjusted from 0-9,990 seconds, depending on various standard and customized requirements.

The junction box is a tamper proof enclosure that ensures that the pre-set range or value is maintained. It is also provided with an emergency setting button to switch off the unit with audio visual alarm. The sequential operation of our air shower is operated through floor matting operated switch. Our air shower has adequate lighting arrangement and ensures a minimum illumination level of 800 Lux.

FILTER ASSEMBLY

All our air shower are fitted with fully washable synthetic pre-filter units and secondary high efficiency perfect air filters made of mini pleated non woven fabric. The efficiency of our filters has a rating better than 99.99% at DOP (cold) and 99.97% at DOP (Hot). Our units have the capacity to hold all suspended particles of size > 0.3 micron.

MOTOR AND BLOWER ASSEMBLY

All our air shower are provided with perfectly balanced (Static as well as dynamic) motor and blower motors bearing ISI mark. The rating of the assembly is 1/5 HP. Our high efficiency pumps which have life long lubricated bearings ensure a trouble free operation for a long time.



Air Shower

ILLUMINATION

All the units are provided with adequate illumination at the work table by means of fluorescent lights panel concealed at the upper portion of the unit. This light arrangement conforms to the guidelines laid down in US federal standard . The illumination at the work table is approx > 800 lux.

NOISE LEVEL

Our air shower are designed to ensure that the work enclosure have minimum possible vibration levels and noise level is also contained below 60 db.

APPLICATIONS

- Clean Room
- Pharma Production
- Micro-Electronic Fabrications and Production Units
- Semi-Conductor Production Lines

Technical Matrix: Air Shower

Constructions	Industrial grade mica clad wooden board/Stainless Steel
Face velocity	6000 ft/min + 20 feet
Operation Time (Adjustable)	0-9,990 seconds
Pre Filter	Washable pre-filter unit (Non Woven-Synthetic Polyester)
HEPA Filters	Glass pleated non woven fabric filter having 99.99% efficiency 0.3 micron particle size.
Pressure Drop	23 mm
Air Flow	Multi Directional
Air Flow Control	Solid State Control Unit
Blower Assembly	Centrifugal lubricated bearing type ISI marked assembly
Illumination	Fluorescent light illumination greater than 800 lux on work table
Noise level	Noise level less than 60 db
Add on features	Sequential feature operation by door mat magnetic switch.
Power Requirements	500 watts – 950 watts (Model specific)
Internal Work Space	1 meter x 1 meter x 2 meter
Nominal voltage	220-230 Volts, 50 Hz Single Phase
Frequency	50/60

Note: We undertake to manufacture customized air shower sizes as per the specific requirements.

SALIENT FEATURES

- Our air curtains are quite and have a very low vibration effect ensuring unnoticeable presence and operation in any installation.
- It gives excellent protection from dust and other unwarranted particles suspended in air from entering in the work area and works as an invisible air barrier.
- Reduces air conditioning cost and increases the efficiency of the cooling units.
- The drafts are reduced on installations of our air showers, thus increasing the energy efficiency of the building.
- Air velocity of our air curtains are customized for different applications and it can be optimized to prevent/reduce the entry of dust, pollen grains, insects etc without disturbing the occupants of the premises.
- Elegant design, super style and ease of installation makes our air curtains very popular in different quarters of our market.
- Our air curtains are equipped with super quality crompton motor to ensure long and reliable life span.



CONSTRUCTION DETAILS

Outer body of our **AIR CURTAINS** are made of thick PCRC sheet, duly pre-treated with primers and painted with attractive air drying paint or powder coated.. Energy efficient heating elements made out of high grade Kanthal A-1 wire are placed in tandem with heavy duty cross flow fan coupled with a superior low noise motor, which ensures a smooth performance with minimal hindrance and turbulence.

Our air curtain is developed as horizontal fixtures and is mounted on the ceiling which ensures space optimization. This feature enables them to be used as air screens where there is very small room between the doors and ceiling. Our air showers can be flush mounted or concealed in false ceiling or suspended by means of metal rods or ropes.

Standard Models (Size)		
	Models No.	Size
A	ACM-CAFP-600	Size Door Width 600 mm
B	ACM-CAFP-900	Size Door Width 900 mm
C	ACM-CAFP-1200	Size Door Width 1200 mm
D	ACM-CAFP-1500	Size Door Width 1500 mm
E	ACM-CAFP-1800	Size Door Width 1800 mm

Note: We undertake to manufacture customized air curtain sizes as per the specific requirements.



Profile

COMPANY PROFILE :

With over a decade of industry experience in manufacturing scientific laboratory instruments, we have established ourselves with the name of ACMAS Technocracy (P) Ltd. to provide highest quality instruments to laboratories, pathologies, entomologies, pharmaceuticals, research centers etc. We have successfully catered the needs of above 600 institutions in India and abroad for the last 22 years. The dedicated and cumulative efforts of ACMAS team members has produced and delivered the comprehensive range of scientific instruments and laboratory products research projects where maintaining a viable record of the performance of the equipment is very essential.

COMPANY'S OUTLOOK :

ACMAS Technocracy (P) Ltd. enjoys an amazing image for high quality scientific laboratory instruments across the globe. The continuous innovative technology and 'Quality Management System Standard' delivers the advanced laboratory experiments and general-purpose measuring instruments solution to various laboratories, sterilizing clean rooms, microbiologies, biotechnologies, pathologies, entomologies, pharmaceuticals, seeds and soil testing, meteorologies food processing. We also believe in providing customized instruments solution to our esteemed clients.

MANUFACTURING FACILITIES :

The company has well built and operated manufacturing facilities that matches the latest system and technique in the industry. Our team strictly follows the quality control standards of ISO 9001:2000 series while designing, developing, manufacturing and delivering the scientific instruments. The manufacturing unit of ACMAS is made with complete state-of-the-art equipments and technologies for producing high quality instruments. We also acquired Environmental Friendly process certifications ISO14001:2004 for our entire range of instruments to ensure reliability and durability in each product.

RANGE OF PRODUCTS :

Our wide array of AUTOCLAVE, INCUBATORS OVENS, LAMINAR AIR FLOW, MOISTURE METERS, WATER DISTILLATION PLANTS, LABORATORY BALANCES, WATER BATH, CENTRIFUGE, COOLING EQUIPMENTS, WATER TESTING EQUIPMENTS, LABORATORY SHAKING MACHINE, MICROTOME, MICROSCOPE, MEASURING INSTRUMENTS AND ALLIED products to ensures accuracy and conformity for significant experiments. We also customize some of our product range and technologies for educational, medical, industrial or other laboratories for better work experience. Our pre sale and post sales support are also admirable and popular among our satisfied clients.

QUALITY STANDARDS :

At ACMAS Technocracy (P) Ltd, we design and develop the complete range of scientific and laboratory instruments with highest quality standards. We constantly update technologies and methodologies to ensure reliability and consistency at each level of instruments production. Our all transparency auditing system are performed by the most reliable D& B International as we want to deliver the world class quality instruments to our national and international clients. We feel proud that our entire product range has brought satisfactory results for the corporate and public sector clients.

PROFESSIONAL TEAM :

The continuous cooperation and support of professional team has helped us to understand and deliver the satisfactory scientific instruments right from basic lab equipment to most sophisticated instruments for research labs. We believe that our tremendous success belongs to our expert engineers, managers, co-workers and other significant team members who have put their best efforts in the growth of the organization. It is their dedication and commitment that makes us the most trusted scientific instruments brand among our all satisfied clients.

FORTE :

We strive hard to cater our clients with best product range and services while meeting international standards. Our aim is to meet the overwhelming demand of the scientific community and provide them the world class quality scientific instruments along with the best after sale support.



Clients

OUR LIST OF CUSTOMERS



OUR LIST OF CUSTOMERS





Our Presence World Wide





Contact

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