

AIRTECH

Delivering Quality Air



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AIRTECH

Delivering Quality Air



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Website: www.airtechworld.com



Company Profile

Airtech , A contamination control product company, was established

In 1986. The Company has its manufacturing Unit & Office at Vasai.

The company has steadily grown and has around 100 employees.

Our company has developed complete range of Air filter and Clean room equipments. We manufacture and design filter and clean room equipments according to customers requirement.

Our company have fully equipped workshop, quality control equipment and quality control system. Our technical team makes effort to satisfy the need of customer and quality control system.

Our company have rich experience in manufacturing of air filter for various process industries where clean air is required, our experience of more than 3 decades allowed to establish the good business relation by solving the Air filtration problem of customers. We are currently serving leading Pharma companies like Sunpharma ltd , Lupin ltd , Wockhardt ltd , Dr.Reddy's Ltd etc with our quality products.

We believe that the growth is the result of giving more value in forms of timely delivery, Quality products and reasonable terms against the price that customer pay.





COMPANY PROFILE : -

- | | |
|-------------------------------|--|
| 1) NAME OF ORGANISATION | : M/s. AIRTECH |
| 2) ADDRESS | : 121, PARAS INDL. ESTATE BUILDING,
NAVGHAR, OPP. BANK OF BARODA,
VASAI (E) DIST- PALGHAR , MAHARASHTRA ,
INDIA - 401210 |
| 3) TELEPHONE NOS. | : +910250-2390500/2391354 |
| 4) E-MAIL ADDRESS | : airtechjulie@rediffmail.com
airtechfilter.af@gmail.com |
| 5) WEB SITE ADDRESS | : www.airtechfilters.co.in |
| 6) NAME OF PROPRIETOR | : Mrs. JULIE. V. PATIL
(9890438222) |
| 7) NAME OF THE CONTACT PERSON | : Mrs. JULIE. V. PATIL
(9890438222) |
| 8) SPECIALISATION | : AIR FILTERS & CLEAN ROOM
EQUIPMENTS |



PRODUCT RANGE MANUFACTURED

- ❖ HEPA FILTERS
- ❖ SYNTHETIC MEDIA FILTERS
- ❖ BAG FILTER
- ❖ LAMINAR FLOW BENCHES
- ❖ CLEAN ROOM EQUIPMENT & ACCESSORIES
- ❖ PHARMA WALLS
- ❖ FUME HOODS
- ❖ MANOMETERS
- ❖ MAGNETIC GAUGE
- ❖ RISER
- ❖ TERMINAL BOX VCD
- ❖ GRILLS
- ❖ FILTER CLEANING STATION
- ❖ AIR MEASURING STATION
- ❖ OPERATION THEATRE MODULE.





Airtech manufactures Filters and Clean Room Modules which are as follows.

ITEMS	CHAPTER HEADING NO.	TYPE OF DUTY.	RATE OF DUTY.
1) Metallic Filters. 2) Series-50 Pre Filters. 3) Series 150-Microvee Filters. 4) Synthetic Media Filters. 5) Bag Fine Filters. 6) HDPE Filters. 7) Air Filters. 8) Clean Air Module. 9) Laminar Air Flow Unit.	84213920 CENTRIGUGES INCLUDING CENTRIFUGAL DRYERS FILTERING OR PURIFYING MACHINERY & APPARATUS FOR LIQUIDS OR GASES.	BASIC DUTY	12.36%

The above items are manufactured in our works at Vasai with the following principal Raw Materials.

- | | |
|----------------------|---------------------------|
| 1. Mild Steel (M.S.) | 2. Stainless Steel (S.S) |
| 3. Aluminium | 4. Galvanized Iron (G.I.) |
- Filter Media :
- a) Non Woven Polyester
 - b) Fiber Glass
 - c) Imported Micro Glass Fiber Paper.
(LYDALL/HOLLINGWORTH MAKE)

The filters are subjected to rigorous testing up to International standard such as BS 6540, IS 7419, Ashrae 52-76, U.S.federal std 209E

The above items are used in the Ventilations and Air Conditioning fields for projects like commercial buildings, Hospitals, Pharmaceutical and Electronic industry.

Airtech also trades in manometers and accessories.

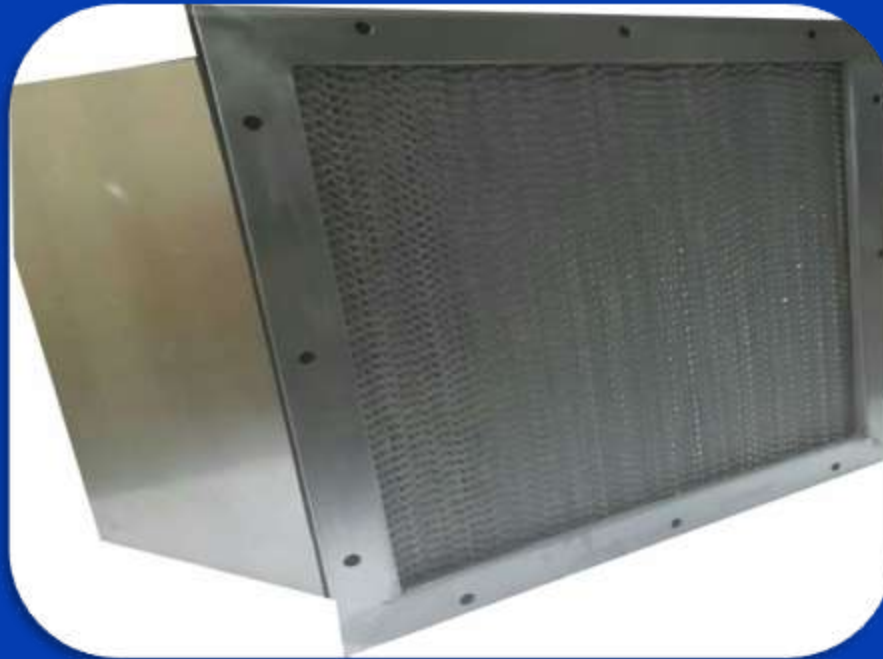


LIST OF PHARMACEUTICAL CLIENTS

- 1). M/s. Lupin Laboratories
- 2). M/s. Sun Pharmaceuticals
- 3). M/s Dr.Reddy's Labs
- 4). M/s Cadila Healthcare
- 5). M/s Alembic Pharmaceuticals Limited
- 6). M/s. Intas Pharmaceuticals Limited
- 7). M/s. Ajanta Pharma Limited
- 8). M/s. Torrent Pharma Limited
- 9). M/s. Glaxo Smith Limited
- 10). M/s. Cipla Limited
- 11). M/s. Ipca Limited
- 12). M/s. Indoco Remedies
- 13). M/s. Mylan Labs Limited
- 14). M/s. Wockhardt Limited
- 15). M/s. Merck
- 16). M/s. German Remedies
- 17). M/s. Geno Pharma
- 18). M/s. Serum Institute
- 19). M/s. Hindustan Unilever Ltd
- 20). M/s. Nicholas Piramal Limited.
- 21). M/s. Globe Parenterals

- 22). M/s. Kare Labs
- 23). M/s. J.K.PHARMA
- 24). M/s. SPIC PHARMA
- 25). M/s. Safe Parentals (P) Ltd
- 26). M/s. Unisearch Pharma
- 27). M/s Medicef Pharma
- 29). M/s Associated Capsules Limited
- 30). M/s M.J.Pharmaceuticals
- 31). M/s Wyeth Lederle Limited
- 32). M/s. Garware Polyester limited
- 33). M/s. Sterlite Communication
- 34). M/s. Titan Time Products
- 35). M/s. Kodak Films Limited
- 36). M/s. Tata Electric Co Ltd
- 37). M/s. Bses
- 38). M/s. Vsnl
- 39). M/s. Jindal Polyester Films
- 40). M/s. Modern Petrofils
- 41). M/s. Reliance industries Ltd
- 42). M/s. Kopran Ltd
- 43). M/s. J.F Laboratories
- 44). M/s. Symbiotec Pharmaceuticals

HEPA FILTER



HEPA FILTER

AIRTECH – **HEPA FILTER** FILTERS ARE STANDERDISED ON ANODISED ALUMINIUM FRAMING. THE IMPORTED SUBMICRONIC GLASS FIBRE MEDIA WHICH IS WATER RESISTANT AND HAS A HIGH TENSILE STRENGTH CONSISTS OF ONE CONTINEOUS SHEET FOLDED AROUND MACHINE PLEATED ALUMINIUM SEPERATORS. A FLUID FIRE RETARDENT ADHESIVE WHEN DRY HARDENED, PROVIDING A POSITIVE SEAL BETWEEN FILTER PACK AND RIGID FRAME. A CLOSED CELL NEOPRENE GASKET PROVIDES POSITIVE SEALING.



HEPA FILTER

TESTING:-

EACH FILTER IS INDIVIDUALLY TESTED BY THE DOP PENETRATION METHOD FOR EFFICIENCY AS WELL AS FOR AIR FLOW AND PRESSURE DROP.

DOP TESTING:-

THE DIOCTYLPHALATE (DOP) SMOKE TEST IS THE PROCEDURE USED TO TEST AIRTECH HEPA FILTERS. THE DOP SMOKE GENERATOR IS SPECIALLY CONTROLLED TO GENERATE SMOKE PARTICLES OF 0.3 MICRON SIZE. ALL HEPA FILTERS ARE INDIVIDUALLY TESTED USING THIS DOP METHOD.

THIS ASSURES A FILTER THAT IS 99.97% EFFICIENT ON PARTICLES OF 0.3 MICRONS IN SIZE OR LARGER.

USE: -

THE **HEPA FILTER** IS RECOMMENDED FOR USE IN INDUSTRIAL AND PHARMECEUTICAL APPLICATIONS WHERE DUST FREE ENVIRONMENT IS REQUIRED.

- INITIAL PRESSURE DROP IS 1" (25.4MM) WG.
- NON STANDARD SIZES CAN BE MANUFACTURED TO SUIT CUSTOMER REQUIREMENTS.

Model	Dimensions Ins. (mm)	Capacity Cfm
AT HEPA 100	12" x 12" x 5.5" (305 x 305 x 140)	125
AT HEPA 500	24" x 24" x 5.5" (610 x 610 x 140)	500
AT HEPA 1000	24" x 24" x 11.75" (610 x 610 x 298)	1000



MINIPLEAT FILTER



MINIPLEAT HEPA FILTER

THE AIRTECH **M-PLEAT FILTER** ARE SPECIALLY DESIGNED TO MEET THE DEMANDS OF AIRFLOW AND PARTICULATE CONTROL REQUIREMENTS OF CLEANROOM APPLICATIONS. IT IS AVAILABLE WITH KNIFE-EDGE OR GASKET SEAL FRAMES FOR INSTALLATION IN ANY OF GRID SYSTEM OR FRAME. THE MINI-PLEAT DESIGN OF THE AIRTECH M-PLEAT COMBINES MAXIMUM EFFICIENCY WITH LOW PRESSURE DROP, THUS REDUCING OPERATING COST. MEDIA USED IN AIRTECH M-PLEAT FILTERS ARE IMPORTED GLASS FIBRE PAPER PACKS IN WHICH HOT MELTS ARE USED TO MAINTAIN EQUAL SPACING BETWEEN PLEATS FOR OPTIMAL AIRFLOW, RESULTING IN HIGH DUST HOLDING CAPACITY AND FULL USE OF ENTIRE DEPTH OF THE FILTER.



CONSTRUCTION:-

THE AIRTECH M-PLEAT IS MADE OF MOISTURE RESISTANT AND FIRE RETARDENT GLASS FIBRE MEDIA. THE IMPORTED MEDIA PACK IS PERMANENTLY BONDED TO THE LIGHT WEIGHT ANODIZED EXTRUDED ALUMINIUM FRAME WITH A POLYURETHANE ADHESIVE.

TESTING :-

ALL HEPA FILTERS ARE TESTED WITH DOP TO DETERMINE THE OVERALL EFFICIENCY IN ACCORDANCE WITH MIL STD-282.

SPECIFICATIONS:

MAXIMUM OPERATING TEMPERATURE :	80°C
FRAME :	ANODIZED EXTRUDED ALUMINIUM
SEPERATORS :	HOT MELT
ADHESIVE:	SYNTHETIC RESINS
GASKET:	CLOSED CELL NEOPRENE
MEDIA :	MOISTURE RESISTANCE AND FIRE

RETARDENT 100% FIBRE GLASS MEDIA

USE: -

THE M-PLEAT FILTER ARE DESIGNED FOR USE IN CLEANROOMS, CLEAN BENCHES, SEMICONDUCTOR, PHARMACEUTICAL, BIOTECH, FOOD PROCESSING AND OTHER INDUSTRIES IN WHICH AIRBORNE CONTAMINENTS MUST BE CAREFULLY CONTROLLED.

AVAILABLE IN WIDE RANGE OF EFFICIENCIES:

EU-11 : 99.97% , EU-12 : 99.99% , EU-13 : 99.997% & EU-14 : 99.999%

DEPTH (MM)	CAPACITY CFM @25 MM WG
305 x 610 x 69 mm	250
610 x 610 x 69 mm	500
610 x 915 x 69 mm	750
610 x 1220 x 69 mm	1000
DEPTH (MM)	CAPACITY CFM @25 MM WG
305 x 610 x 93 mm	375
610 x 610 x 93 mm	750
610 x 915 x 93 mm	1125
610 x 1220 x 93 mm	1500



Minipleat Hepa GEL TYPE Filter

Product Description

FEATURES:

AIRTECH, Minipleat HEPA Filters are designed for the air intake and extract systems of critical applications where high efficiency filtration is necessary. AIRTECH HEPA filters are capable of retaining particulate matter down to 0.3 microns. AIRTECH Minipleat HEPA are available with efficiencies between 99.97% and 99.999%.

- *Low initial pressure drop.*
- *High dust holding capacity.*
- *High cost / performance ratio.*
- *Wide range of standard sizes.*
- *Individually leak test*
- *Polyurethane Gel Gasket / Neoprene Gasket*
- *Suitable for Knife Edge Frame Systems*
- *Faceguards on both sides standard*
- *Anodized Aluminium Frame*
- *Excellent Sealing*





Minipleat HEPA has many applications, including use in medical facilities, automobiles, aircraft, and homes. The filter must satisfy certain standards of efficiency.

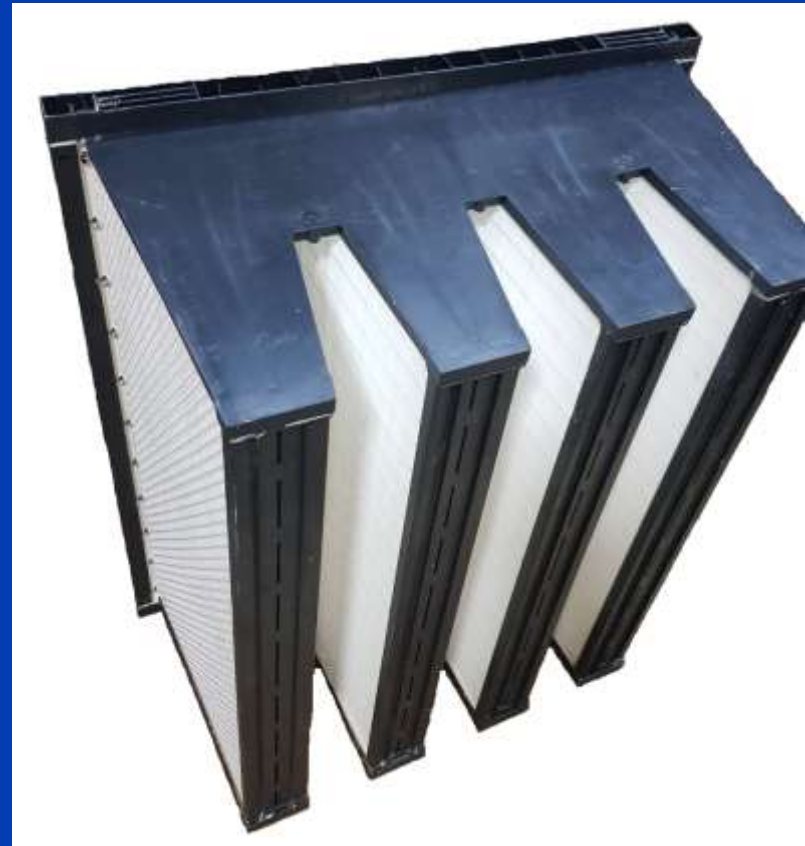
APPLICATION:

Minipleat HEPA filters are used in a wide variety of applications. Filters can be used for office equipment to remove toner dust to applications for industrial vacuum cleaners for asbestos removal. Each application is unique. Minipleat HEPA filters are also critical in the prevention of the spread of airborne bacterial and viral organisms. Used in surgical operating rooms, and other critical medical air filtration applications, HEPA filters are there to provide the highest quality of air cleanliness

- Surgical smoke evacuation
- Surgical respirator systems
- Pharmaceutical Industries
- Food Industries
- Automobiles Industries



V-BANK Hi-Flow Filter





Product Description :

Designed to withstand high velocities and turbulence which makes it suitable for many types of air handling systems.

A V-Bank filter is what we call a mini-pleated filter packs arranged in V shape moulded plastic, it's a high-efficiency filter with a higher media area than a standard box filter. The standard size is still 24 x 24 x 12, like the box filter, most box filters have a metal frame and lower amount of filtration media. The actual pleat packs, which is what the media is manufactured into, are installed into the V-Bank filter in a 'V' shape – hence the term V-Bank..

- ❖ The rigid frame construction allows corrosion free and longer life of filter.
- ❖ Provides low pressure drop due to which energy saving is higher.
- ❖ V- Bank filter contains no metal parts which minimizes risk of puncture and corrosion.
- ❖ Available with micro glass HEPA or ULPA media or extremely durable, low pressure drop PTFE
- ❖ Light weight which makes it easy to install.
- ❖ Multiple mini-pleat packs assembled into V-Banks allow sustainability .
- ❖ Maximum available media area provides greater airflow capability, low resistance, high dust holding capacity.

APPLICATION:

V Bank Hi- Flow filters are used in a wide variety of applications where greater air flow is required. V-Bank filters are there to provide the highest quality of air cleanliness

- High Corrosive area.
- Sterile area , Hospitals





SPECIFICATION:

Media Type	Fiberglass
Sizes Available	4V – 24" x 24" x 12" , 12" x 24" x 12" 3V - 24" x 24" x 12"
Filter Depth	12"
Antimicrobial Available	No
Max Operating Temperature	70°C
MOC Of Frame	Molded Plastic
CFM for standard size	2000





SERIES 50 - PRE FILTER



SERIES – 50 PRE FILTER

THE FILTER MEDIA FOR THE SERIES – 50 PRE FILTER HAS AN EXTENDED SURFACE DUE TO PLEATING AND IS OF THE NON-WOVEIN TYPE WITH REGULAR LABRYNITHINE STRUCTURE BEING BUILT OF SYNTHETIC FIBRES WHICH ARE BONDED TOGETHER BY A SPECIAL RESIN.

THE MEDIA IS SANDWITCHED BETWEEN 2 LAYERS OF HDPE MESH WHICH ACTS AS A RETAINER AND SCREENS OUT LARGE PARTICLES AND PREVENTS THEM FROM BEING EMBEDDED IN THE MEDIA.

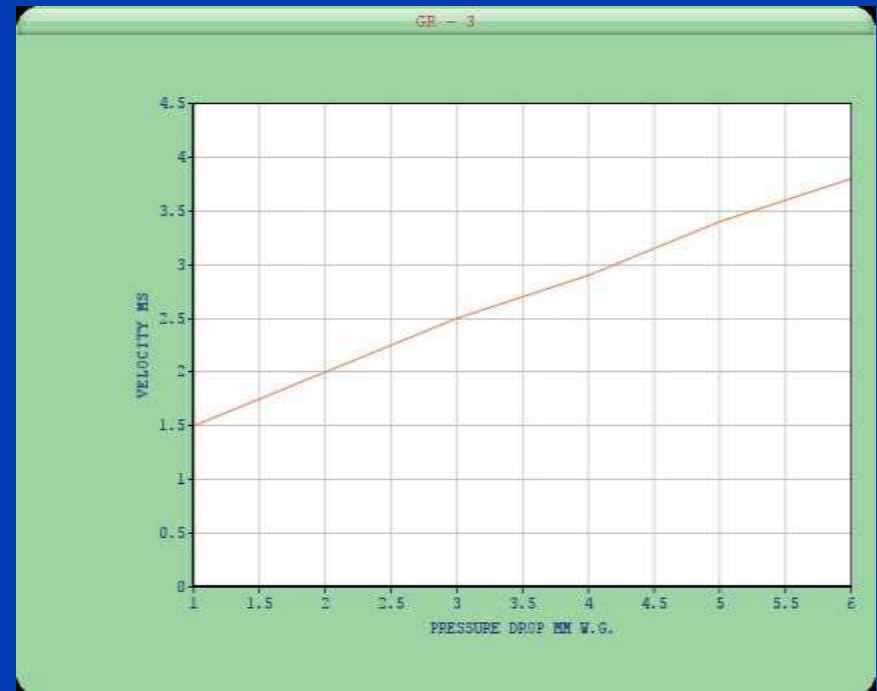
THE MEDIA BEING SYSTHETIC IS RESISTANT TO MOISTURE, FUNGI, BACTERIA, FROST AND IS NON-ALLERGIC. PRE FILTER SYMTHETIC MEDIA IS PLESENT IN HANDLING AND DOES NOT CAUSE IRRITATION AND ITHCHING OF THE SKIN LIKE FIBREGLOSS.

FOR SPECIAL APPLICATIONS A FIRE RETARDENT TREATMENT IS AVAILABLE.

THE MEDIA BLANKET IS EASILY REMOVABLE FROM THE FRAME AND CAN BE WASHED IN PLAIN WATER. IF THE FILTER PADS ARE LOADED WITH A STICKY OR GREASY TYPE OR DUST THEN THEY SHOULD BE SOAKED IN WATER WITH ADDITION OD DETERGENT.



Model	Dimensions INS.	Capacity CFM	INITIAL PRESSURE DROP (mm)	EFFICIENCY
GR 1	24" x 24"	1400	4	95% DOWN TO 10 MICRON
	24" x 12"	700		
	20" x 20"	975		
GR 2	24" x 24"	1400	4	90% DOWN TO 10 MICRON
	24" x 12"	700		
	20" x 20"	975		
GR 3	24" x 24"	1560	2	85% DOWN TO 20 MICRON
	24" x 12"	780		
	20" x 20"	1074		



USE: -

THE **SERIES 50 FILTER** IS RECOMMENDED FOR COMFORT AND NON-CRITICAL INDUSTRIAL APPLICATIONS AND CAN BE EASILY INSTALLED IN STANDARD AIR HANDLING UNITS OR MOUNTED IN BANKS.

SERIES 150 – FINE FILTER



SERIES – 150 MICROVEE FILTER

THE FILTER MEDIA FOR THE SERIES – **150 MICROVEE FILTER** HAS AN EXTENDED SURFACE DUE TO PLEATING AND IS OF THE NON-WOVEN TYPE WITH REGULAR LABRYNTHINE STRUCTURE BEING BUILT OF SYNTHETIC FIBRES WHICH ARE BONDED TOGETHER BY A SPECIAL RESIN.

THE MEDIA IS SANDWICHED BETWEEN 2 LAYERS OF HDPE MESH WHICH ACTS AS A RETAINER AND SCREENS OUT LARGE PARTICLES AND PREVENTS THEM FROM BEING EMBEDDED IN THE MEDIA.

THE MEDIA BEING SYNTHETIC IS RESISTANT TO MOISTURE, FUNGI, BACTERIA, FROST AND IS NON-ALLERGIC. PRE FILTER SYNTHETIC MEDIA IS PRESENT IN HANDLING AND DOES NOT CAUSE IRRITATION AND ITCHING OF THE SKIN LIKE FIBREGLASS.

FOR SPECIAL APPLICATIONS A FIRE RETARDANT TREATMENT IS AVAILABLE.

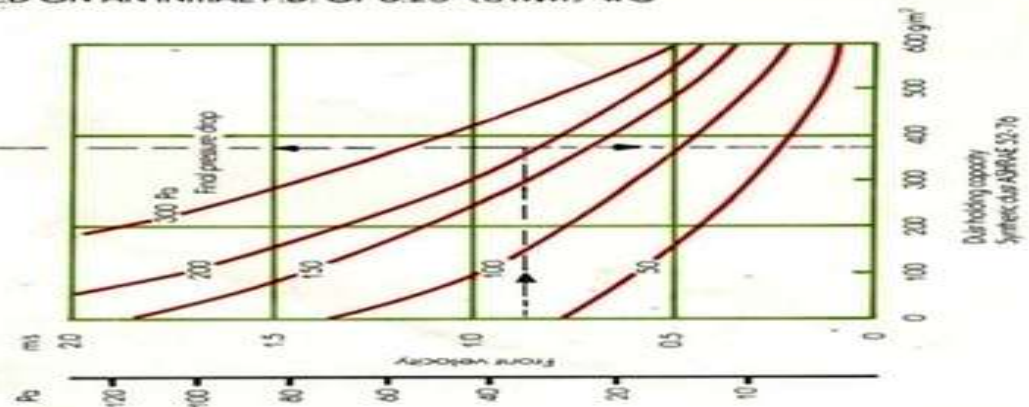
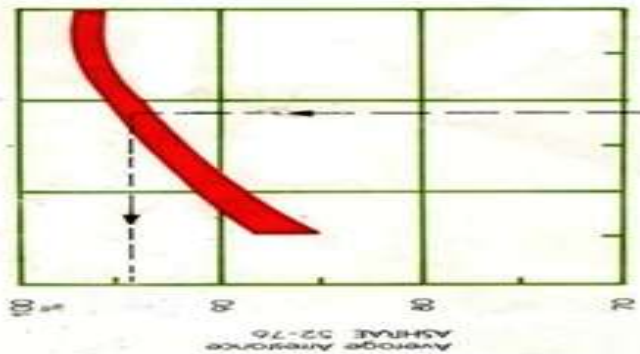
THE MEDIA BLANKET IS EASILY REMOVABLE FROM THE FRAME AND CAN BE WASHED IN PLAIN WATER. IF THE FILTER PADS ARE LOADED WITH A STICKY OR GREASY TYPE OR DUST THEN THEY SHOULD BE SOAKED IN WATER WITH ADDITION OF DETERGENT.

CONSTRUCTION:-

THE MEDIA IS PLEATED AND HELD IN PLACE BY ALUMINIUM SPACER GUIDES. THE FRAME 150 MM (6") WIDE IS ALL OF ALUMINIUM CONSTRUCTION MAKING THE ENTIRE ASSEMBLY CORROSION PROOF. THE FRAME IS LINED WITH FOAM TO ENSURE A TIGHT SEAL AROUND THE EDGES.

Model	Dimensions Ins. (mm)	Capacity Cfm	EFFICIENCY
AIRVEE 1	24" x 24" x 6" (610 x 610 x 150)	1000	99.9% DOWN TO 5 MICRON
AIRVEE 2	24" x 24" x 12" (610 x 610 x 305)	2000	
AIRVEE 3	24" x 24" x 6" (610 x 610 x 150)	1000	99% DOWN TO 3 MICRON
AIRVEE 4	24" x 24" x 12" (610 x 610 x 305)	2000	

CAPACITIES ARE BASED ON AN INITIAL P.D. OF 0.25" (6 MM) WG

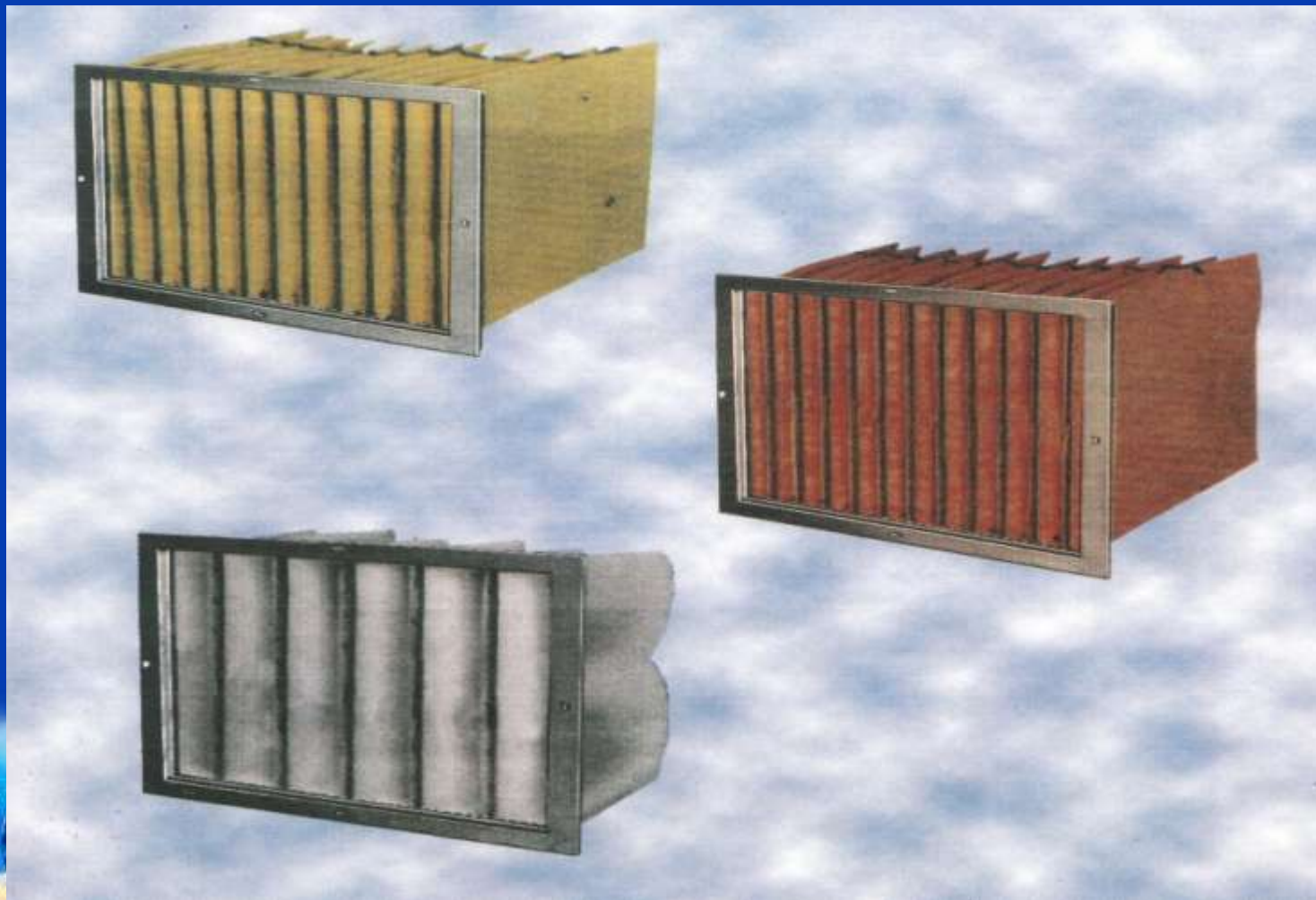


USE: -

THE **SERIES 150 FILTER** IS RECOMMENDED FOR USE IN INDUSTRIAL AND PHARMECEUTICAL APPLICATIONS WHWRE RELATIVELY DUSTFREE AIR IS REQUIRED AND AS A PRE FILTER FOR ABSOLUTE (HEPA) FILTERS. MOUNTING FRAMES OF A MODULAR DESIGN ARE AVAILABLE FOR EASY INSTALLATION INTO FILTER BANKS.



BAG FILTER





BAG FILTER

AIRTECH HI-FLOW (**BAG FILTER**) FILTERS ARE HIGH EFFICIENCY EXTENDED SURFACE FILTERS. THIS GIVES A LOW AIRFLOW THROUGH THE FILTER MEDIA, WHICH ENSURES LOW PRESSURE DROP AND HIGH DUST HOLDING CAPACITY. ALL HI-FLOW FILTERS ARE SUITABLE FOR AIR-CONDITIONING PLANTS AND WITH SELF SUPPORTING FILTER BAGS. HI-FLOW ARE ESPECIALLY SUITABLE FOR INSTALLATION IN AIR HANDLING UNITS.

CONSTRUCTION:-

A COMPLETE HI-FLOW FILTER CONSISTS OF A HOLDING FRAME MADE FROM GALVANISED SHEET METAL OR ANODISED ALUMINIUM. NON-WOVEN SYNTHETIC FIBRES ARE USED IN THE BAGS OF EU-5, EU-6 AND FIBRE GLASS FOR EU-7, EU-8, EU-9 FILTERS. SCRIM BACKING IS PROVIDED TO PREVENT FIBRE MIGRATION.

TYPE	SIZE (mm)	CAPACITY (CFM)	ATMOSPHERIC DUST SPOT EFF (% AS PER ASHREA 52-76 & BS 6520)
EU-5	610 X 610 X 500	1600	40 - 60
EU-6	610 X 610 X 500	1600	60 - 80
EU-7	610 X 610 X 500	1600	80 - 90
EU-8	610 X 610 X 500	1600	90 - 95
EU-9	610 X 610 X 500	1600	< 95



METAL MESH FILTERS



Built for exceptional performance and low maintenance in high-moisture and high-temperature conditions. An aluminium, galvanized, or stainless steel U-channel frame is wrapped around the perimeter of crimped layers of aluminium media (galvanized or stainless steel is available). This design produces an even distribution of air and minimizes surface loading of the filter. Performance of the filter is exceptional.

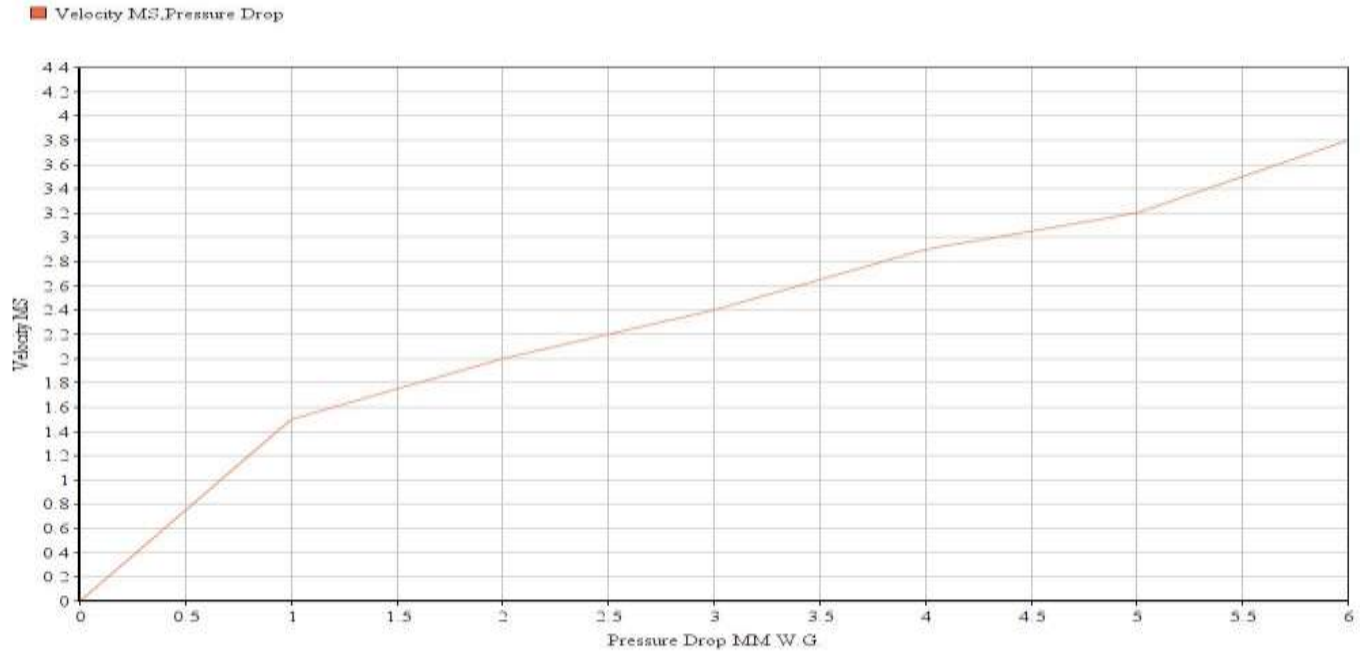
Applications

MESH air filters are widely used in commercial and industrial HVAC systems. They are also used as pre filters. Lightweight construction makes these filters easy to handle, install, and clean.



ROD FILTER

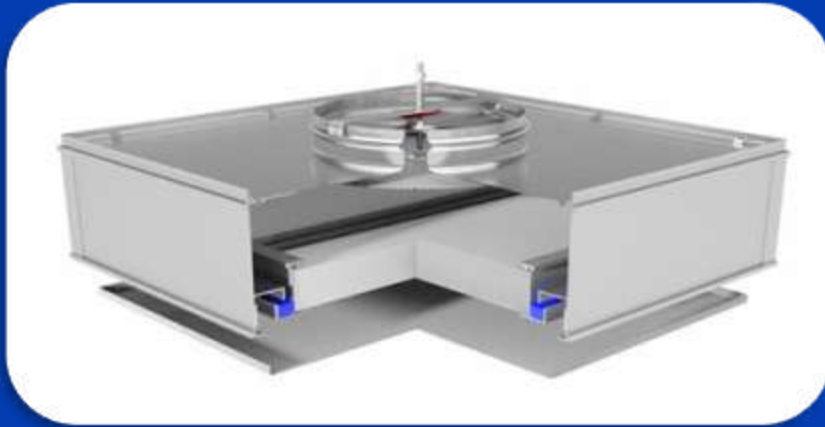




Model	Dimensions INS.	Capacity CFM	INITIAL PRESSURE DROP (mm)	EFFICIENCY
GR 3	24" x 24"	1560	2	85% DOWN TO 20 MICRON
	24" x 12"	780		
	20" x 20"	1074		



Minipleat Hepa Filter & Housing



Product Description :

The Pharma seal is a Terminal filter ducted ceiling housing for HEPA/ULPA filters in clean rooms, gel seal PU gasket, with individual "Radial" or "Aerofoil" damper, for fully equipped GMP tests.

- ❖ *Room side replaceable filter access*
- ❖ *Welded construction for strength and leak-free operation*
- ❖ *Easy access for filter testing*
- ❖ *Available with micro glass HEPA or ULPA media or extremely durable, low pressure drop PTFE*
- ❖ *Stainless steel removable protective grill*
- ❖ *Vertical or horizontal flow applications*
- ❖ *Adjustable butterfly damper*
- ❖ *Designed for tee grid or plaster ceiling applications*
- ❖ *Wall-mounted model available*



APPLICATION:

Gel HEPA filters & housing are used in a wide variety of applications. HEPA filters & housing are also critical in the prevention of the spread of airborne bacterial and viral organisms. Used in surgical operating rooms, and other critical medical air filtration applications, HEPA filters are there to provide the highest quality of air cleanliness

- *Surgical smoke evacuation*
- *Surgical respirator systems*
- *Pharmaceutical Industries*
- *Food Industries*
- *Automobiles Industries*

SPECIFICATION:

Media Type	• Fiberglass
Special Size Available	• Yes
Filter Depth	• 6"
Antimicrobial Available	• No
Max Operating Temperature	• 70°C
MOC Of Housing	• Aluminium Extrusion
Damper Type	• Radial / Aerofoil



DUST COLLECTOR FILTER (CONVENTIONAL TYPE)

Conventional Dust collector

The conventional Dust Collector filters are manufactured using “non woven needle felt media”. The fibers of the base material, with the support scrim in the middle is passed through a high speed needle – loom. The specially designed needles punch the fibers and interlock them on the support scrim. The material is then calendared and signed to give an aesthetic surface finish.

Coatings Available:

- Oil and Water repellent coating
- Antistatic Coating



**Range Of Material**

Media	Code	Max Cont Temperature	Weight
Polyester	PE	150 deg C	400, 500, 550, 600 gsm
Polypropylene	PP	90 deg C	500, 550 gsm
Homopolymer polyacrylicnitrile	POH	130 deg C	550, 600 gsm
Copolymer polyacrylicnitrile	POC	130 deg C	550, 600 gsm
PPS (Ryton)	PPS	160 deg C	500, 550 gsm
Aramid (Nomex)	AR	200 deg C	500, 550 gsm
Polyimide (P84)	PI	200 deg C	550, 600 gsm
PTFE (Teflon)	PTFE	250 deg C	750 gsm





DUST COLLECTOR FILTER (CARTRIDGE TYPE)

PLEATED CARTRIDGE

Pleated cartridges are custom made pleated bags. These products are offered in a variety of fitment arrangements and sizes. These products are suitable solution when very high filtration area is required per cartridge. By increasing the diameter, pleat depth and number of pleats, area as high as 15 sq mtrs can be provided in one cartridge.

Fitment Options :

- Standard 3 lug flange top loading
- Standard 3 lug flange bottom loading
- DIN type cartridge bottom loading.
- Collar type flange top loading.

Material Of Construction :

- Top: Aluminium / SS 304 / SS 316
- Bottom : GI / SS 304 / SS 316
- Inner : GI / SS 304 / SS 316



**Sizes available with us :**

The product is offered in the below standard sizes. Custom designed sizes can also be provided

Diameter (mm)	Length (mm)	Pleat Depth (mm)	No of Pleats	Area (sq mtrs)
150	500 - 2000	16 / 28	40 - 60	0.64 - 6.72
225	500 - 2000	16 / 28 / 48	60 - 80	0.96 - 15.00
325	500 - 1500	28 / 48	80 - 100	2.24 - 15.00





Filter ratings we provide

Group of filters	Filter class CSN EN 779/1822	Arrestance A _m (%), E _m (%)	EUROVENT 4/5, 4/4	DIN 24185 DIN 24184
Filters for coarse dust (Efficiency for particles 10 µm) G	Average Weight: Arrestance A _m (%)			
	G 1	60	EU 1	EU 1
	G 2	70	EU 2	EU 2
	G 3	80	EU 3	EU 3
	G 4	90	EU 4	EU 4
	Average Atmospheric Dust Spot Efficiency E _m (%)			
	F 5	40	EU 5	EU 5
	F 6	50	EU 6	EU 6
Filters for fine dust (Efficiency for particles 1 µm) F	F 7	60	EU 7	EU 7
	F 8	70	EU 8	EU 8
	F 9	80	EU 9	EU 9
	Initial Penetration (%) / Efficient			
	MMPS	85	NaCl	Paraffin
	H 10	90	(EU 9)	Q
	H 11	95,0 97,0	EU 10	R
	H 12	99,0 99,5 99,7		
Filters for microparticles (Efficiency for particles 0,01 µm) H (HEPA)	H 13	99,9 99,95 99,97	EU 11	S
	H 14	99,99 99,995 99,997	EU 12	
	H 15	99,999 99,9995 99,9997	EU 13	
	U 16	99,9999 99,99995 99,99997	EU 14	(T)
	U 17	99,99999 99,999995 99,999997		(U)
	U 18	99,999999 99,9999995 99,9999997		
	U 19	99,9999999 99,99999995 99,99999997		
	U 20	99,99999999 99,999999995 99,999999997		

Machines Available with us



1.) HEPA Paper Pleating Machine

HEPA paper pleating machines are used for pleating filter papers of different sizes and can also operate safely in environment containing flammable materials. These HEPA filters comes with maximum roller width of 700mm and pleat depths as per required specifications. Further, these feature vertical sinking platform with variable drive unit, paper roll mounting stand with brakes, facility for quick change of pleat depths, variable drive for paper pleating roll, pleat counter, online separator insertion in pack and facility for On-line paper edge slitting. Some of the other specifications these are available in include motor for quick return of sinking platform, control panel with easy approach to both operators and for auto/manual operation modes.





4.) Mini Pleating Machine

Mini Pleating machines are designed to deliver optimum production value and are available in different specifications as demanded by the customers. These Mini Pleating Machines are also available with maximum media pleating width of 610mm (24"), marking rollers assembly pleat depth of 20 to 65mm, roll unwinding stand with paper tensioning device and pneumatically operated paper roll loading arrangement. Some other specifications of the machines include paper holding arrangement for end pasting, adjustable height based pleat compactor and pleat counter with marking device





2.) Aluminum Foil Folding, Corrugation and Cutting Machine

Aluminum Foil Folding, Corrugation and Cutting Machines are available in different finish specifications carrying on them specific structural/operation based changes so as to perfectly match up with customer's needs. These aluminum foil folding, corrugation & cutting machines come with corrugation roller depth of 3.5 - 4 mm with maximum roller width of 310mm. These also feature DC gear drive unit, on line cutting of separator (as per required lengths), pneumatically operated operations, cutter facility for folding of edges, 20 separators/min of operating speed, provision of setting length of separator through digital counter fitted with encoder and control panel for precision handling of all above mentioned mechanisms.





3.) Pusher Bar Pleating Machine

Pusher Bar Pleating machines are developed to effectively meet the production demands of different pleat depths and widths on wire meshes and synthetic media. The machines are facilitated with options of adjusting vertical lift of plate, screw to adjust pleat depth, Linear motion bearings and guides and others. These Pusher Bar Pleating Machine also come with maximum pleating widths of 610mm, maximum pleat depths of 295mm, minimum pleat depths of 25mm. Apart from this, some other operational features of these pleating machines include pleating speeds of 15 pleats per min (50mm) and 7-8 pleats per min (295mm) and pneumatically operated platens for achieving smooth operational standards.



4.) DOP Smoke Generator

The **DOP Smoke Generators** are available in tank capacities of 2ltrs, six nozzle designs, control options for nozzles, compressed air filter regulator unit, stainless steel fabricated structures for superior process durability and longer service life. Further, these also come with sealed cover unit, pneumatic operations and facility to operate 1-6 nozzles as per the specific process application needs of the industrial clients..



Reverse Laminar Air Flow Unit

Designed with precision, the **Reverse Laminar Air Flow** is ideal for Operator Protection, Product Protection and Environment Protection. Based on the smooth working profile and high-end performance of our Reverse Laminar Air Flow, we are ranked amidst notable Reverse Laminar Air Flow Manufacturers, Suppliers and Exporters from India. Furthermore, Reverse Laminar Air Flow can be customized to suit the precise requirements of the clients.

Material Of Construction : S.S. 304/ S.S. 316

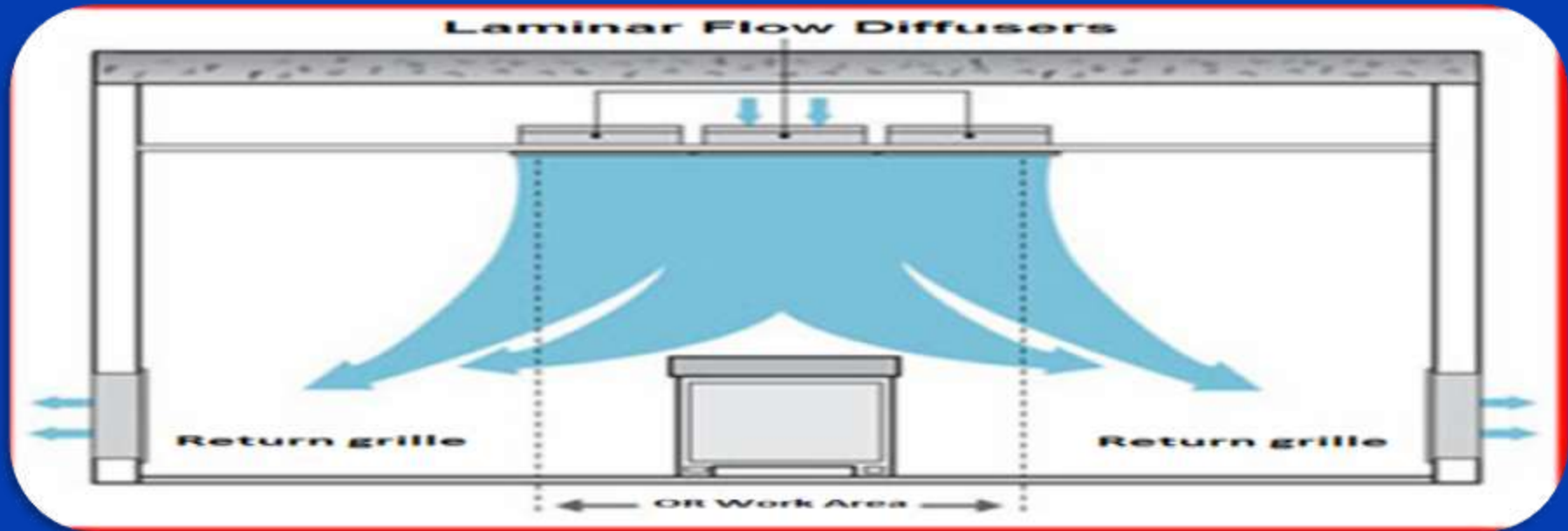




OT Module

Airtech offers a precision engineered range of Vertical Laminar Flow Cabinet for Operation Theatre Module, which is manufactured in line with the international quality standards to ensure optimum quality in the final product. Our range is safe to use as and finds application for bio-assays and sterility testing, microbiological manipulations, microbiological labs and other research centers engaged in investigative work with sub-toxic material. One of the most promising and since decades proven solutions is the use of laminar flow air system within the surgery zone.





Based on our experience we are consequential contributing to the improvement of the aforementioned hospital area and of reducing the risk of infection by designing and installing down – and cross flow system for the hazardous areas where patients are treated. The use of laminar air flow in combination with HEPA filters and special air distribution screens lays grounds for ultra clean air and today's highest technically possible germ (CFU) free environments.

As clean air enters the patient's area, laminarity ensures protection from external contamination and avoidance of internal contamination by surgery team and/or patient.

Technical specification:

- Cleanliness - Class 100
- Particle retention- 0.3 micron
- Velocity - 90FPM+20%
- Noise level - 60-65 decibels
- Standard - FED 209E



Application Areas

- Microbiological manipulations.
- Bio-assays and sterility testing.
- Bio clean protection for semi-automatic vial filling and bunging.
- Operations in parenteral production, hospitals, pathological laboratories, microelectronics, optics, food and beverage, agriculture, animal husbandry, avionics and biotechnology.
- Dry processing of electronics, electronic integration and micro feature assembly or, for automatic filling lines in parenteral production.
- Microbiological labs or other research control centers engaged in investigative work with sub-toxic materials.
- Providing protection for open vessels of chemicals, solvents or powders.

Advantages

Air-Stream is not directed at the operator causing less stress over.

- Larger pieces of equipment cause less.
- Larger working area.



Vertical Laminar Air Flow Unit



Vertical Laminar Air Flow Unit we manufacture, supply and export is fabricated using supreme quality materials. The Vertical Laminar Air Flow Unit offered by us is widely demand owing to its high end performance and reliability. Moreover, reasonable price has been fixed for the Vertical Laminar Air Flow Unit.





Specifications

- High product protection by provision of ISO Class 5 particle free work area
- Able enough to handle critical process
- Proven protection for the samples and processes
- The work area is continuously supplied with positive pressure HEPA filtered vertical air flow
- Vertical unidirectional airflow speed prevents contamination from operator and environment to work area.
- Laminarity of the flow handles cross contamination between the items in the working space.
- Made available in powder coated Mild Steel and SS 304 / SS 316/ SS 316L or a combination of both
- Two Stage filtration
- EU6 – Prefilter (95% down to 5 micron)
- EU14 - HEPA Filter – Supply (99.999% down to 0.3 micron)
- Dynamically balanced Motor-blower provided with suspension arrangement to minimize the noise level
- SS work table with due reinforcement
- Glass side panels
- Fluorescent Lights with Milky White Diffuser
- Differential Pressure Gauge : 1 No.
- On / Off Switch
- Clean Down Timer with Operation HOLD indicator
- DOP Test Port
- 5/15 Amp Switch Socket for external equipment





Accessories Made Available :

- Front doors (hinged/pneumatic cylinder)
- Night Mode Operation
- SS Air / Gas Cock
- U. V. Light with Hour Meter
- Velocity display with alarms (audible and visible)
- Filter blocked alarms (audible and visible)
- Explosion proof electrics for Flame-proof applications
- Audio / Visual alarm for blower tripping with Fault Acknowledgement & Reset Switch
- Photohelic Gauge with Audio / Visual Alarm in lieu of Magnehelic Gauge with High / Low Indicators
- Digital Pressure Gauge in lieu of Magnehelic Gauge
- On Line Velocity Indicator with Audio / Visual Alarm with High / Low Indicators

Operating Conditions

Air cleanliness	ISO Class 5 (ISO 14644-1:1999 (E))
Air Velocities	0.45 ± 0.05 mps
Air Flow	Horizontal
Noise Level	Less than 67 dB
Vibration Level	Minimum
Light intensity	> 300 lux
Power Supply	230V AC 1-Ø 50HZ

Dynamic Pass Box



AIRTECH make Dynamic Pass box is designed to minimize traffic and cross contamination between two areas; and at the same time transfer parts, tools, products etc. from one area to another area.

Material Of Construction : S.S. 304 / S.S. 316

Static Pass Box



AIRTECH Static Pass Box unit is of international quality standard. The pass box offers easy access or passage of materials between clean room and outer dust areas. The pass box works as an essential link between the two environments and offer maximum protection against outer contamination when objects are passes into or out of the clean room. We assure to deliver best quality Static Pass Box at the most competent price.

Material Of Construction : S.S. 304 / S.S. 316



Housing Box

Airtech standard and non standard Housings are designed to hold filtration in single or multi stage. Each housing can customise according to client requirement. Units are offered in three housing depths, 22-1/4", 34-1/4", and 42".

Housing depths are determined by the final filters that are required per applications. The housing are intended for new and replacement applications. Units are factory assembled in a "one-piece rugged construction," and reinforced with corner gussets to add extra stability. A closed cell urethane foam is included on the inside of the doors and walls to seal against the filter edge to eliminate air by-pass. After fabrication units shall be sealed with a silicone compound on areas where metal meets metal, assuring a sealed housing.

Specifications:

A Slab Mounted Housing--

- Made of CRCA powder coated/SS- 304 /Aluminium
- Available in single skin/Double skin
- D.O.P and Pressure Port
- Suitable for flange /Box Type filter
- Bottom loading/top loading filter arrangement

B False Ceiling Mounted Housing--

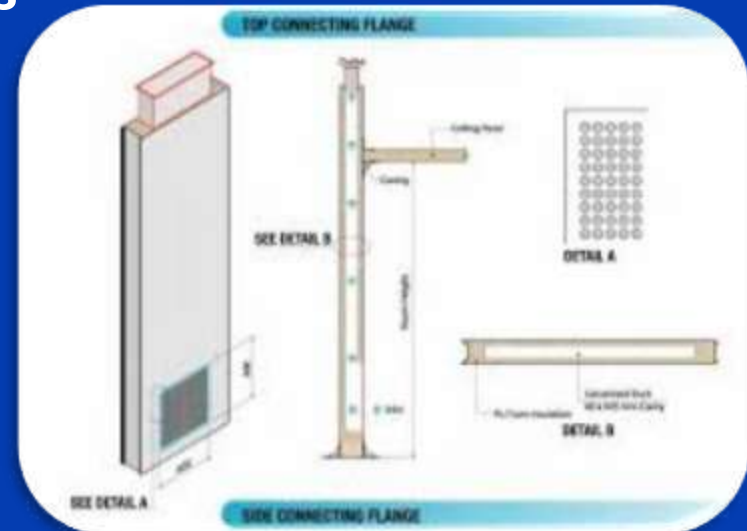
- Made of CRCA powder coated/SS- 304 /Aluminium
 - Available in single skin/Double skin
 - D.O.P and Pressure Port
 - Suitable for flange /Box Type filter
 - Bottom loading/top loading filter arrangement
- Damper operated from below of false ceiling



Feature:

- Robust construction
- Durability
- Corrosion resistance
- Negligible maintenance

Risers



We are one of the most promising Industrial **Return Air Riser** Manufacturers in Indian as well as international market. Our Return Air Riser is extensively applied to improve the overall appearance of cleaned rooms. Our high quality Return Air Riser is made up of stainless steel, aluminium, power coated steel, double skin, and many more. Through strong manufacturing capabilities, we are able to provide Customized Return Air Riser as per the specifications of clients. In addition to the above facts, we serve Return Air Riser at the most reasonable prices in the Industry.

Material Of Construction

Made up of stainless steel, aluminium, power coated G.I. and CRCA

Additional Features Like

Pre filters along with front removable / accessible door can be provided as per requirement.

(Any other accessories as per requirement can be provided.)



Thank you.....

Please allow us to serve you with optimum
quality air filters and services.

Contact us / Enquiries are welcome : -

airtechjulie@rediffmail.com

airtechfilter.af@gmail.com

