Netfil®

World-class Solutions in

Clean Room Equipments, Filters, Coils & AHU's

FILTERS

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PRE FILTER - PANEL TYPE

Technical Specifications:

Class: Pre Filter
Grade: G2, G3, G4
Frame: Aluminum Anodized/SS 304/GI
Media: Synthetic Non Woven / Fire Retardant Glass Fiber
Protected Mesh: aluminum net or stainless steel net or cardboard net
Temperature: 50°C - 150°C
Humidity: 70 - 90% RH
Test: Batch wise testing as per BSEN 779

PRE FILTER - PANEL TYPE

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Pre filters are used for protection against larger particle contamination.
It is suitable for primary filtration which is mainly used to filter dust particles

PANEL TYPE PRE FILTER :

Washable panel filter is made of high quality polyester media and light frame. It has low pressure drop and high fire resistance.

The filtering media is made of non-woven fabric,nylon mesh, activated carbon filter, metal mesh. There are cardboard, aluminum and galvanized plating for frame available.

APPLICATIONS :

- Primary filtration of air conditioning and ventilation systems, and also suitable for simple device of air ventilation systems.
- AC ventilation system of offices, meeting rooms, hospitals, shopping centers, sports centers, airports and residence etc.
- As a pre-filter in the centralized ventilation system of a clean room inside an industrial plant.

FEATURES :

- Large filter area
- Economical and practical
- Low initial resistance
- Light weight, versatility, and compact
- Large dust holding capacity
- Rigid & durable housing for the filter media pack.

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PRE FILTER - POCKET / BAG TYPE

Technical Specifications:

Class: Pre Filter
Grade: G2, G3, G4
Frame: Aluminum Anodized/SS 304/GI
Media: Synthetic Non Woven / Fire Retardant Glass Fiber
Protected Mesh: aluminum net or stainless steel net or cardboard net
Temperature: 50°C - 150°C
Humidity: 70 - 90% RH
Test: Batch wise testing as per BSEN 779

PRE FILTER - POCKET / BAG TYPE

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Bag filters are designed for removal of dust (contaminants) from outdoor and recirculation air in draw-in systems, air conditioning systems, warm air heating systems and other air preparation systems.

A bag filter consists of galvanized or plastic frame and filtering material soldered (stitched) in a way to form pockets. Careful design of bag filters provides maximum filtration rate and significant dust holding capacity at a low air flow resistance.

These filters are designed to filter all kinds of commercial and industrial HVAC installations. They clean the air from particles and improve indoor air quality and workplace conditions.

APPLICATIONS :

- Various branches of industry like pharmaceutical, food-processing, machine building and metalworking, light industry etc.
- Catering facilities like restaurants, cafes, dining places etc.
  Power engineering, gas and oil processing industry like in gas turbine engines, compressor plants etc.
- Air treatment systems for paint-spraying and drying booths, varnish-and-paint processing lines

FEATURES :

- Conical bags for optimized performance
- Quick and easy mounting
- Robust metal header frame
- Less energy consumption

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FINE FILTER - PANEL TYPE

Technical Specifications:

- Class: Fine Filter/Pre Filter
- Grade: F5, F6, F7, F8 & F9
- Frame: Aluminum Anodized/SS 304/GI/CRCA
- Media: Synthetic Non Woven / Fire Retardant Glass Fiber
- Protected Mesh: aluminum net or stainless steel net or cardboard net
- Temperature: 50°C - 150°C
- Humidity: 70 - 90% RH
- Test: Batch wise testing as per BSEN 779

FINE FILTER - PANEL TYPE

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Fine filters used as middle stage filter or as pre-filter to HEPA filters.
Panel filters play an important role in extending lifetime and IAQ of air handling units for clean room processes.
Panel filter is designed for use in HVAC systems. Offering superior performance and more energy efficient.

APPLICATIONS :

- Ideal for applications where higher grade pre-filtration is required
- Residential and commercial buildings
- Various branches of industry like electronics, precision machinery, instruments, machinery, and food
- Widely used in ventilation system, air conditioning system

FEATURES :

- Adopts superfine synthetic fiber
- Large dust holding capacity
- Stable efficiency
- Low pressure drop, long life span
- Rigid construction
- Moisture Resistant card case

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FINE FILTER - POCKET / BAG TYPE

Technical Specifications:

Class: Fine Filter/Pre Filter
Grade: F5, F6, F7, F8 & F9
Frame: Aluminum Anodized/SS 304/GI/CRCA
Media: Synthetic Non Woven / Fire Retardant Glass Fiber
Protected Mesh: aluminum net or stainless steel net or cardboard net
Temperature: 50°C - 150°C
Humidity: 70 - 90% RH
Test: Batch wise testing as per BSEN 779

FINE FILTER - POCKET / BAG TYPE

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Bag filters are the most common air filters in HVAC systems for industrial and commercial applications as well as for residential use to improve indoor air quality and comfort.
The filters in the supply air are used as first and second filter stages, either as complete filtration solutions for these applications or as pre filters for clean-room process applications.
The filters are also used in the exhaust air or in recirculation systems to protect the air handling units. Bag filters have a significantly higher dust holding capacity and longer lifetimes than other filters.
The Bag Type Filters are made in either Ultra-fibreglass fibre or Synthetic media. The media is bonded to a thin non-woven synthetic backing and sewn with multiple rows of expanded stitching.
These filters are designed to filter all kinds of commercial and industrial HVAC installations. They clean the air from particles and improve indoor air quality and workplace conditions.
It offers high efficiency filtration while maintaining low resistance to airflow.

APPLICATIONS :

- Used in verity of commercial and industrial applications.
- Oil mist collection or fume collection.
- Paint spray booth in Automobile industry.
- Air inlet filter for gas turbines, compressors and diesel engines.

FEATURES :

- Open throat design for optimum air flow.
- Strong and rigid construction that permits an easy and quick installation
- High filtering surface and long clogging time
- Increasing efficiency during the utilization
- Designed for high velocity applications
- Aluminum/GI header for filter strength & prevent rusting.
- Less energy consumption
- Low initial pressure drop and superior dust holding capacity.

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HIGH EFFICIENCY PARTICULATE AIR FILTER
(DEEP - PLEATED)

Technical Specifications:

Grade: H12/H13/H14
Frame: Galvanized steel/Aluminum/SS304/SS316
Media: Imported Sub Micronic Fiber glass
Separator: Corrugated Aluminum
Sealant: Polyurethane
Gasket: Neoprene Rubber/PU Foam
Efficiency: H12≥99.995%, H13≥99.997%, H14≥99.997% @0.3μm_
Pressure drop: IPD 25mm Wc, FPD 70mm Wc
Temperature: 50°C - 150°C
Humidity: 70 - 90% RH
Test: 100% individually tested according to IES-RP-CC-001.3

HIGH EFFICIENCY PARTICULATE AIR FILTER (DEEP- PLEATED)

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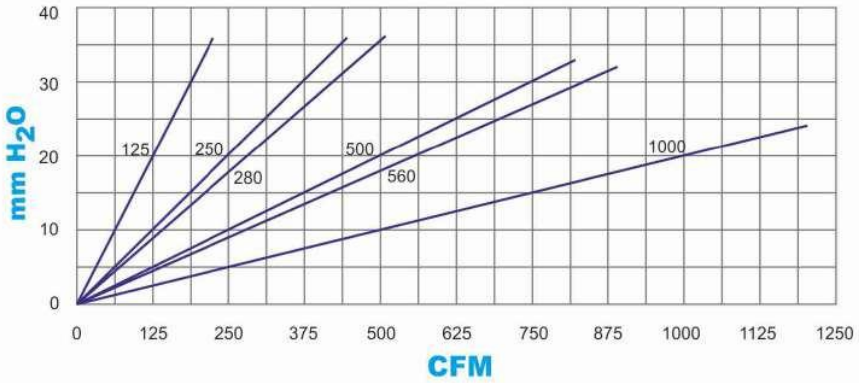
Deep-pleat HEPA filter is used as medium filter for ventilation system which has high air quality requirement and final filtration for ventilation system of general air conditioning.
Netfil offers the complete range of deep-pleated HEPA filters.

TECHNICAL SPECIFICATIONS :

TYPE	W	H	D	m2
NFH -1000	610	610	300	22.67
NFH - 500	610	610	150	9.33
NFH - 250	305	305	300	5.13
NFH - 125	305	305	150	2.11
NFH - 560	458	458	300	12.15
NFH - 280	458	458	150	5.00



APPLICATIONS :

- Commercial Buildings
- Data Centre's
- Food and Beverage Industry
- Microelectronics Industry
- Pharmaceutical Industry
- Hospital Operating Theaters & Intensive care units
- Electron semiconductors and dust-free room
- Research Laboratories

FEATURES :

- The filtration material is made of fiberglass filter paper which is waterproof and flame retardant.
- The filtration material and frame is sealed by the specially designed polyurethane glue for leak free joint.
- High efficiency, low resistance, good uniformity winds.
- High flow filters option for higher airflow.
- Decreases Health Hazard.
- Wide range of applications

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HIGH TEMPERATURE HEPA FILTER

Technical Specifications:

Grade: H13, H14
Frame: SS 304/316
Media: Imported Sub Micronic Fiber glass
Separator: Aluminum Foil/Glass Fiber Paper
Sealant: Polymineral
Gasket: 4mm thick glass braid
Efficiency: H13≥99.997%, H14≥99.999% @0.3μm
Pressure drop: IPD 25mm Wc, FPD 50mm Wc
Temperature: 150°C - 350°C Continues
Humidity: 100% RH
Test: 100% individually tested according to IES-RP-CC-001.3

HIGH TEMPERATURE HEPA FILTER

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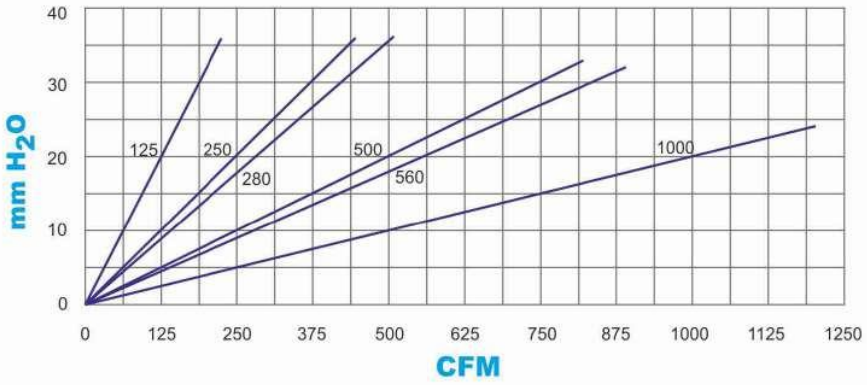
High temperature HEPA filter range is designed for areas where either the supply or extract of air, is at higher than average temperatures.

TECHNICAL SPECIFICATIONS :

TYPE	W	H	D	m2
NFH -1000	610	610	300	22.67
NFH - 500	610	610	150	9.33
NFH - 250	305	305	300	5.13
NFH - 125	305	305	150	2.11
NFH - 560	458	458	300	12.15
NFH - 280	458	458	150	5.00



APPLICATIONS :

- Pharma industry for depyrogenation tunnels and ovens.
- Drying ovens in paint shops especially in car industry
- Modern milk dryers to produce clean milk powder and infant formula.
- Paint spraying booths in the automotive industry
- Food and beverage Industry

FEATURES :

- Meets FDA requirements (Food & Drink Administration).
- Less gas released during the first heating stages.
- Leak free performance during heating cycles.
- Upstream & downstream SS protective guard.
- Large dust holding capacity.
- Thermo resistant and can be used over a long period of time under 250-350 degree c.
- High mechanical strength
- Low resistance.
- High efficiency.
- High air flow

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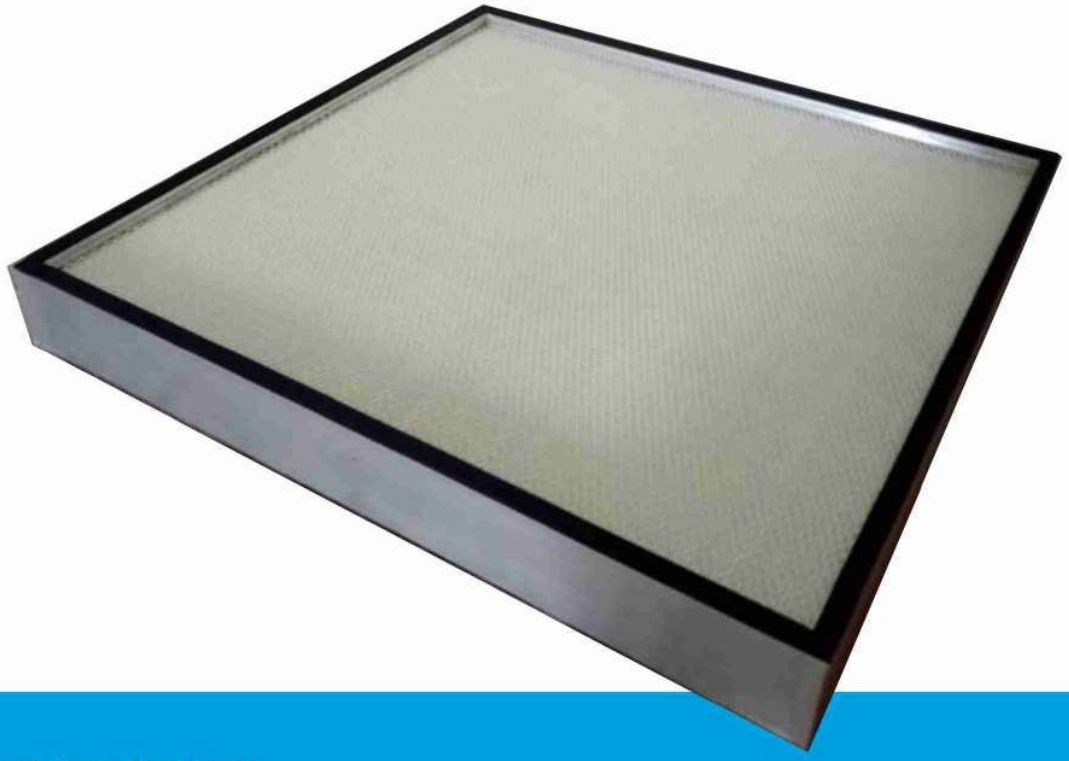
MINI - PLEAT HEPA FILTER



Technical Specifications:

- Grade: H13, H14
- Frame: Aluminum Extruded/SS 304/SS 316 (Separate sheet)
- Media: Imported Sub Micronic Fiber glass
- Separator: Aluminum /Glass Fiber Paper
- Sealant: Polyurethane
- Gasket: Neoprene Rubber
- Grill: One/both side epoxy coated grill.
- Efficiency: H13≥99.997%,H14≥99.999% @0.3μm
- Pressure drop: IPD 12 to 18mm Wc, FPD 50mm Wc
- Temperature: 50°C - 120°C
- Humidity: 100% RH
- Test: 100% individually tested according to IES-RP-CC-001.3

MINI - PLEAT HEPA FILTER

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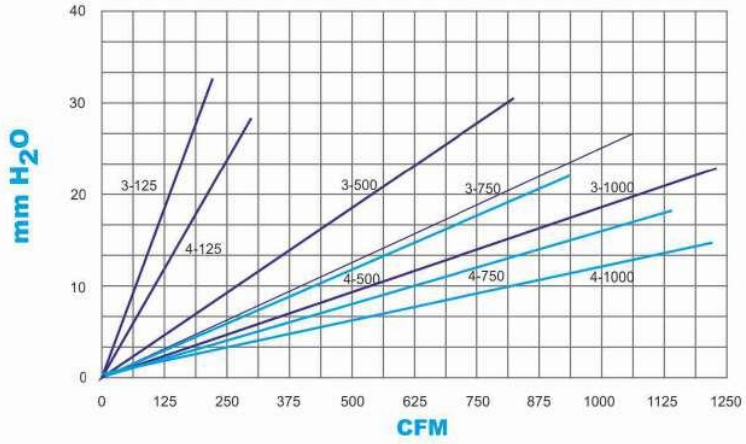
Mini Pleat HEPA Filters are used in situations requiring high or very high level of purity. They are primarily designed as intake filters for low turbulence displacement flow clean room ceilings and clean workbenches.
Netfil offers the complete range of mini-pleat HEPA filters manufactured in wide variety of custom depths.

TECHNICAL SPECIFICATIONS :

TYPE	W	H	D	m2
NFH- 4 - 1000	610	1220	100	26.14
NFH - 3 - 1000	610	1220	75	15.70
NFH - 4 - 750	610	915	100	19.60
NFH - 3 - 750	610	915	75	11.76
NFH - 4 - 500	610	610	100	13.10
NFH - 3 - 500	610	610	75	7.84
NFH - 4 - 125	305	305	100	3.24
NFH - 3 - 125	305	305	75	1.94



APPLICATIONS :

- Laminar flow for clean benches.
- Clean room applications.
- Clean room equipments.
- Hospitals.
- Pharmaceutical Industry
- Terminal filtration of the civil
- Industrial cleaning places such as electronics, semiconductor, precision machinery and food processing

FEATURES :

- Low initial pressure drop.
- High Dust holding Capacity.
- High cost / performance ratio.
- Wide range of standard sizes.
- Individually leak tested.
- Factory extruded
- Compact in size and light in weight.
- Aluminum frame can anti corrosion for long time.
- Environment friendly construction
- Robust Construction to withstand harsh environmental conditions

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GEL SEAL HEPA FILTER

Technical Specifications:

Grade : H13, H14
Frame: Aluminum Extruded/Galvanized sheet
Media: Imported Sub Micronic Fiber glass
Separator: Aluminum /Glass Fiber Paper/Hot Sol
Sealant: Polyurethane adhesive
Gasket: Neoprene Rubber
Grill: One/both side epoxy coated grill.
Protective mesh: Epoxy painted white protective mesh.
Efficiency: H13≥99.997%, H14≥99.999% @0.3μm
Pressure drop: IPD 12 to 18mm Wc, FPD 50mm Wc
Temperature: 50°C - 60°C
Humidity: 100% RH
Test: 100% individually tested according to IES-RP-CC-001.3

GEL SEAL HEPA FILTER

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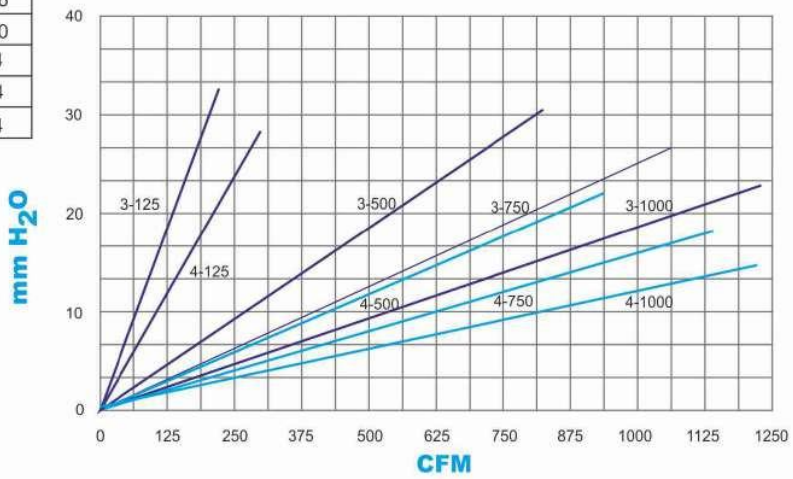
Gel Seal type HEPA filter is nice in appearance, Easy to install, thin thickness, Light weight, High efficiency, large filtration area, Long work-life and low resistance. The slot is poured, by environmental gel, Good seal and leak-proof.

CONSTRUCTION TYPE OF FILTER :

- Air downstream gel with collar
- Air upstream gel without collar

TECHNICAL SPECIFICATIONS :

TYPE	W	H	D	m2
NFH- 4-1000	610	1220	100	26.14
NFH - 3-1000	610	1220	75	15.70
NFH - 4 -750	610	915	100	19.60
NFH - 3-750	610	915	75	11.76
NFH - 4 -500	610	610	100	13.10
NFH - 3 - 500	610	610	75	7.84
NFH - 4 -125	305	305	100	3.24
NFH - 3 -125	305	305	75	1.94



APPLICATIONS :

- Filtration for high efficiency air outlet in clean room of pharmaceutical Industry.
- Used in Heating, air conditioning and ventilation system, Spray painting stop, chemical plant, cement or asphalt powder plant.
- Clean room, power station, heavy and metal industry, dry and bake room, Hospital etc.
- Filtration for FFU in clean workshop.
- Filtration for clean workshops with vertical air discharge.

FEATURES :

- Mini pleat designed and cost efficient.
- Can be widely used and the compact structure saves the storage space.
- With ultra-thin designed which saves the installation space.
- Blue gel sealant designed with perfect sealing performance.
- It can remove a broad range of airborne contaminants.
- High filter surface area offers low pressure drop for energy savings & longer life.
- Gel seal to ensure leak free performance when mounted to knife-edge mounting system.
- Airflow capabilities up to 2300cfm with a low initial pressure drop.

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ACTIVATED CARBON / CHARCOAL FILTER

Technical Specifications:

Grade: G4, F5, F7
Frame: Aluminum Extruded/SS-304/SS-316
Media: Activated Carbon with synthetic fibers
Temperature: 50°C
Humidity: 70 - 90% RH
Test: Batch wise testing as per BSEN 779

ACTIVATED CARBON / CHARCOAL FILTER

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Activated carbon filters, also known as charcoal impregnated air filters, are widely recognized as an effective method of removing and preventing odor/fume buildup in recirculated air.

Utilizing the finest quality coatings, Netfil offers a line of high efficiency odor, fume and gas removing activated carbon filters.

Activated carbon, mixed with alumina and potassium permanganate is highly effective for organic odors and light gases like ammonia, formaldehyde, hydrogen sulfide and sulfur dioxide.

APPLICATIONS :

- In HVAC applications, which require the removal of odours include air filtration and air purification. In medical, pharmaceutical, electronics, semiconductor, hospital, food industry and oil-free environments.
- Applied to the FFU, cleaning equipments, blow of the clean room.
- In air purifiers, air conditioners, fume purifiers, water purification, gas adsorption.
- In high-level of household textiles, tasteless furniture such as closet, shoe cabinet .

FEATURES :

- Effectively adsorb and remove the odor in rooms.
- Removal of airborne molecular contaminants such as volatile organic compounds or ozone
- Odorless nontoxic environment friendly.
- Remove harmful gases and purify air efficiently.
- Low pressure drop, high air flow rate
- Disposable, easy to use, low service cost
- Long term service life
- Can be applied as an excellent pre-filter for use in commercial and industrial HVAC systems.

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V - BANK FILTER

Technical Specifications:

Frame: Plastic/Aluminum/ Galvanized frame
Media: Imported Sub Micronic Fiber glass/ Activated Carbon
Separator: Hot melt glue
Sealant: Polyurethane
Gasket: EVA, EPDM, Neoprene
Grade: H13, H14
Efficiency: H13≥99.997%, H14≥99.999% @0.3μm
Temperature: 50°C - 70°C
Humidity: 70 - 90% RH
Test: 100% individually tested according to IES-RP-CC-001.3

V - BANK FILTER

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V-bank filters are designed to tolerate high velocities and turbulence, making them suitable for many types of air handling systems.
V-bank filters are made of lightweight plastic for easy handling and transportation. The high-quality build gives our filters longer performance life, which reduces maintenance and replacement costs.

APPLICATIONS :

- For the large air volume Purification equipment.
- Used for air conditioning units of the terminal filtration.
- Suitable for the ventilation system of strict air quality requirements of in-take and exhaust and circulation wind filter like pharmaceutical, electronics, chemical, food industry, light school, hospitals, laboratories, libraries, museums, air ports etc.
- Power plants generating electricity
- Commercial buildings having central air
- Air conditioning system

FEATURES:

- Premium polyester fiber or ultra-fine fiberglass paper.
- Polypropylene plastic frame, nontoxic gas pollution when burned.
- Large filtering area, low resistance and long service life.
- Very large surface area
- No metal parts
- Ideal for HVAC & Gas turbine.
- Specially designed for process safety (Food &Life Science application)
- It can be incinerated completely environmental friendly in disposal plants
- Robust construction
- Lower pressure drop
- Optimum filtering efficiency