

Complete  
**CLEAN AIR**  
Solution



- Filters
- Air Purifier
- Clean Room
- Fresh Air Unit

Aditya Filtration System Pvt. Ltd.

# About us

The range of HVAC product (Filtration Equipment, Air Purifier, Clean Rooms & Fresh Air Unit) Produced by Aditya Filtration System Pvt. Ltd. is specially designed to meet the exact specification and demand of our valued customers from Established in 2003 (Formally Name is Aditya Engineers). These products are suitable for air intake and exhaust systems in different applications like commercial air-conditioning & ventilation, critical working places like hospital operation theaters, clean room for sophisticated electronic components manufacturing places.

Aditya products are manufactured from the most suitable high quality material with both imported and indigenous media. Every care is taken while manufacturing, from process to finish to ensure the specification and standard of our discerning customers.

Aditya products fully equipped with efficient production equipments, state-of-the-art testing facilities as per BS-6540, ASHRAE-52.1 & ENN-779, & all ISO International standards.

Our expert team of engineers ensure that every Aditya products is flawless and confirming to the highest quality standards. Aditya Filtration System is always on call to provide any assistance that may be necessary from time to time to all our valuable customers.

# APPLICATIONS

- Pharmaceutical
- Electronic Air-conditioning
- Hospitals
- Automobile Industry
- Glass Industry
- Commercialize Building
- Textile Industry
- Atomic Research Center
- Paint Booths
- Biotech
- Food/Dairy Products
- Analytical Labs
- Nuclear Installations
- Photo Film
- Educational Institutes
- Space Research Labs
- Telecommunication
- Aeronautical
- Botanical Labs
- Biological Labs

## Quick Selection Guide for Filter

		Filter Grade*			Air Filter Solution			
Primary Filtration		MEDIUM EFFICIENCY COARSE FILTERS EUROVENT 4/5	EU2	EU3	EU4	EN 779:2002	Coarse filters	
							G2 ≥ 65%	
							G3 ≥ 80%	
Air conditioned premises with non-specific tertiary or industrial pollution	Preparatory filtering upstream of HEPA/ULPA Filters	HIGH EFFICIENCY FINE FILTERS EUROVENT 4/5	EU5	EU6	EU7	EN 779:2002	Fine filters	
							F5 ≥ 40%	
							F6 ≥ 60%	
							F7 ≥ 80%	
							F8 ≥ 90%	
							F9 ≥ 95%	
Final filters/ Clean room filters	Class according to Fed. Std. 209E 10,000 100 to 1000 1 to 10	VERY HIGH EFFICIENCY HEPA ULPA EUROVENT 4/5	EU10 ≥ 95%	EU11 ≥ 99,9%	EU12 ≥ 99,97%	EU13 ≥ 99,99%	EN 1822	MPPS
								H10 ≥ 95%
								H11 ≥ 95%
								H12 ≥ 99,5%
								H13 ≥ 99,55%
								H14 ≥ 99,995%
								U15 ≥ 99,995%
								U16 ≥ 99,9999%
U17 ≥ 99,99999%								



## PRE FILTER (MERV 4-8)

Designed To Keep Pressure Drop Low To Save On Energy Costs. Available In Washable And Cleanable Versions. Also Available In Pleated And Rod Type Models.

Efficiency Grades	EU 2 - 4 & MERV 5-8
Particulate Efficiency	20, 10u & average arrestance 65%-80% (Ashrae 52.1/EN 779)
Pressure Drop	Less Than 6mm of Water Column
Applications	45mm of Water Column
Media	Air Conditioning And Pre Filtration



## POCKET FILTER (MERV 10-13)

These are extended surface dry filter which offer high efficiency, low resistance and dust holding capacity.

Efficiency Grades	G3, G4, F5, F6, F7, F8 & F9
Particulate Efficiency	10u, 5u, 3u, 2u & 1u
Pressure Drop	Less Than 6mm of Water Column
Applications	45mm of Water Column
Media	Air Conditioning And Pre Filtration



## DUAL FILTER (MERV 8 + MERV 13)

The coarse (pre) and fine filter are housed in the same casing and coarse (pre) filter is removable for cleaning purpose

Particulate Efficiency	5u, 3u, 2u & 1u
Combinations	G3+75, G4, F7, F5+F9, F7+F9, F7 + Eu12
Applications	Pre filtration in AHUs, HVAC Systems and comfort air conditioning
Media	Non woven synthetics, glass fiber paper, felts and other application specific media



## ABSOLUTE HEPA FILTER

These are rigid and compact high efficiency filter with large media area which ensures low pressure drop even at high air flows. Available in versions of Standard, Hi-Flo and Super

Efficiency Grades	H12, H13 & H14
Particulate Efficiency	99.97% for 0.3u
Pressure Drop	Less Than 25mm WC at Rated Flow
Applications	Final 50mm WC in clean rooms
Media	Submicronic glass fiber paper



## MINI-PLEAT HEPA/ULPA FILTER

- Available in efficiency classes H13 - U16 (en1822:2009)
- Individually tested for certified performance.
- Reduces operation costs with lowest possible pressure drop from micro-glass media.
- Available in a range of efficiencies.
- Lightweight and compact.
- Gel seal / gasket seal design are available.

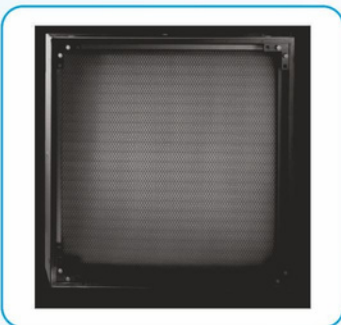


## CARBON FILTER

Carbon filtering is a method of filtering that uses a bed of activated carbon to remove contaminants and impurities, using chemical absorption.



The Carbon filter is designed to improve indoor air quality through the effective removal of indoor and outdoor gaseous contaminants, including VOCs, SOx, NOx and Ozone.



## MINI PLEAT FILTER HOUSING

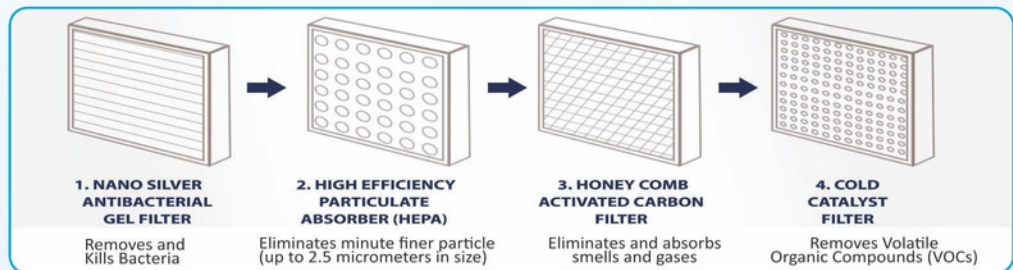
The mini pleat filter housing is suitable for installation of particulate filters, such as the mini pleat filter. The total installation height is only 120 mm (plus 25 mm for the connecting flange). This housing is designed for use in areas where air quality has to be an extremely high level.

The mini pleat filter housing can also be used individually or as an air-supply ceiling in production areas in the pharmaceutical, food, and cosmetic industries, as well as laboratories.

The mini pleat filter housing is made of high-quality stainless steel and is characterised by its rigid, airtight construction.

## INDUSTRIAL AIR PURIFIER

The more filters an air purifier has the better – the HEPA filter removes suspended particulate matter, but a pre-filter (like the filter in your air conditioner) before that will remove large particles, increasing the life of the HEPA filter and cleaning the air. The pre-filter of an air purifier should typically remove particles up to PM10 size; the HEPA filter removes PM2.5 particles and much smaller particles as well, typically to around 0.3 microns, nearly seven times smaller than PM2.5. Aside from this, an activated carbon filter is also useful as it can trap gases and remove odours, something that doesn't happen with an air purifier that has just a HEPA filter. Sulphur gases and carbon fumes are common pollutants that a carbon filter will help with.



## CLEAN ROOM

The contamination control industry currently uses a government specification known as Federal Standard 209D to provide a qualified and standardized method for measuring how clean the air is in a cleanroom. Six classes have been established to designate cleanroom cleanliness. The class number refers to the maximum number of particles bigger than one-half of a micron that would be allowed in one cubic foot of cleanroom air. A Class 100 cleanroom, for example, would not contain more than 100 particles bigger than half a micron in a cubic foot of air.



### Specification - A Clean Room

#### Class 1 (ISO 3)

The particle count is not to exceed a total of 1 particle, 5 microns or larger in size, in a cubic foot of air.

#### Class 10 (ISO 4)

The particle count is not to exceed a total of 10 particles, 5 microns or larger in size, in a cubic foot of air.

#### Class 100 (ISO 5)

The particle count not to exceed a total of 100 particles per cubic foot of a size 0.5 micron and larger.

#### Class 1,000 (ISO 6)

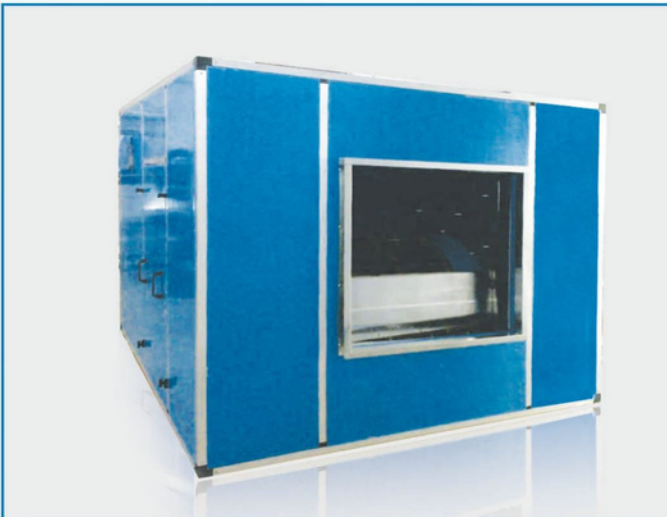
The particle count is not to exceed a total of 1,000 particles, 5 microns or larger in size, in a cubic foot of air.

#### Class 10,000 (ISO 7)

The particle count not to exceed a total of 10,000 particles per cubic foot of a size 0.5 micron and larger, or 65 particles per cubic foot of a size 5.0 micron and larger.

#### Class 100,000 (ISO 8)

The particle count not to exceed a total of 100,000 particles per cubic foot of a size 0.5 micron and larger, or 700 particles per cubic foot of a size 5.0 micron and larger.



## FRESH AIR UNIT

### Product Description

We are prolifically engaged in offering a wide range of a Fresh Air Handling Units. The units are strictly tested by our quality inspectors against set precision standards. The offered units pose to be a versatile heating system, which get installed in wall openings and with roof mounted inlets. Widely founded at the hospitals, restaurant kitchens and maintaining paint booth, the provided units are pledged to give finely circulated 100% outside pure air.

### Specification

- Single and double skinned construction
- Extruded aluminum hollow profile, thermal break profile as option
- Double skin panels with thickness 25 and 43 millimeter and free from HFC and CFC, PUF are used
- Base frame of heavy G.I (galvanized iron sheet) channel of min thickness 1.4 mm with lifting holes for handling
- DIDW forward / backward centrifugal fans are used that is certified to AMCA and are made by KRUGER or NICOTRA
- The fans are dynamically and statically balanced
- For blower and motor common base frames are provided
- Induction motors with TEFC squirrel cage of 415 10% volts, 50/60 cycle, 3 phases/ 1 phase AC supply
- Motor make: ABB / SIEMENS/ KIRLOSKAR
- Generally fresh air unit is provided with primary filters of different media.
- However secondary filters viz, HEPA / microvee / EU-9 / EU-12 / EU-4 and bag filters can also be provided

## Our Valuable Clients



## Air Filter Testing Facility



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