



Advance International Group

Manufacturer & Exporter
of HVAC Filters and AHU Filters



All Type of HVAC Filters
Pre-Filters
Fine Filters
Bag Filters
HEPA Filters
Gas Phase Filters
High Flow HEPA Filters
Terminal HEPA Boxes



www.advanceinternationalgroup.com

Advance International Group

About Us

Advance International Group of companies is catering to the various requirements of Indian and Foreign industry from more than past four decades (40 Years). We have expertise in the field of designing, engineering, manufacturing and distribution of air, liquid, gas filters and strainers, Dehumidifiers, Humidifiers, air dryers, heat exchangers etc. Our products are well known throughout the industry for their best quality, excellent performance, reliability, cost effectiveness and being user friendly. Our products are served to the tailor made requirements also, substitute for international make filters etc. We have also developed various products first time in India.

Management

The company is promoted and served by a group of Engineers and Professionals with impressive record and rich experience, The company's main strength comes from a professional management, a dedicated work force and a satisfied client base. Our team of professionals is highly motivated to carry out its job in a perfect manner that leads to the overall progress of the company. We are committed to customer satisfaction and hence, have a customer-oriented approach. This attitude envelops the entire organization and influences every function.

Infrastructure

The Company has an in-house R & D unit with latest testing equipments. These equipments ensures the reliability of raw material source and also ensure the quality of products throughout the production line. Moreover its engineers are technically skilled in handling raw and finished materials. We are not only fabricators but also have a through knowledge of various processes and processes equipments.

Quality Assurance

Advance International, fulfilling its ISO certification criteria, has a team of skilled professionals every member of which is devoted to produce premium quality products. It has earned respect in the market for precision, reliability and top performance by strictly adhering to the International and National standards & also by having third party inspection to ensure the premium quality of the manufactured goods.

Our Strength

- State of the art manufacturing unit coupled with sophisticated and hi-tech machineries and equipment.
- Computerized R&D unit complacent with latest market equipment.
- A pool of astute, dexterous and dedicated technocrats, workers and business oriented professionals.
- Utilization of modern and cutting edge technologies in our manufacturing process.
- Meticulously designed systems used for the manufacturing of unparalleled range of products.
- Stringent quality control system adhering to international quality standards.
- Quality conscious management system.
- Modern and technologically advance warehouse and shipment facilities.



**Advance Make
Pre-Filter with GI/Aluminum/SS304 Frame - Cassette / Flange Type**

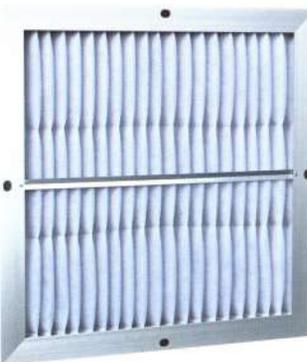
Technical Data



Grade	G3 / MERV 5 / MERV 6	G4 / MERV 7 / MERV 8	
Standard	As per ASHRAE 52.2 and EN779		
Frame	Aluminium / GI / SS - Cassette type		
Gasket (optional)	Food grade, XLP / Neoprene		
Media	Non-woven synthetic media between Aluminium and HDPE mesh		
IPD at 2.5 m/s Air Velocity	4 mm wg	5 mm wg	
Recommended Air Velocity	2.5 m/s max		
FPD	23 mm wg		
Recommended cleaning	at 15 mm wg		
Average Arrestance	80 % ≤ Am < 90 %	90 % ≤ Am	
Suitable Usage Condition	Upto 70°C and RH 70%		
Cleaning properties	Water wash with / without mild detergent		
Standard Dimensions	H	W	D
(Non standard dimensions can be offered on request)	610	610	50
	610	305	50
	610	610	100
	610	305	100

**Advance Make
Pre-Filter with GI/Aluminum/SS304 Frame - Cassette / Flange Type**

Technical Data



Grade	G3 / MERV 5 / MERV 6	G4 / MERV 7 / MERV 8	
Standard	As per ASHRAE 52.2 and EN779		
Frame	Aluminium / GI / SS - Flange type		
Gasket (optional)	Food grade, XLP / Neoprene		
Media	Non-woven synthetic media between Aluminium and HDPE mesh		
IPD at 2.5 m/s Air Velocity	4 mm wg	5 mm wg	
Recommended Air Velocity	2.5 m/s max		
FPD	23 mm wg		
Recommended cleaning	at 15 mm wg		
Average Arrestance	80 % ≤ Am < 90 %	90 % ≤ Am	
Suitable Usage Condition	Upto 70°C and RH 70%		
Cleaning properties	Water wash with / without mild detergent		
Standard Dimensions	H	W	D
(Non standard dimensions can be offered on request)	610	610	50
	610	305	50
	305	610	50
	305	305	50

**Advance Make
Fine-Filter with GI/Aluminum/SS304 Frame - Cassette / Flange Type
Fine Filters Pleated Media**



Technical Data



Grade	F5 / MERV 9 / MERV 10		
Standard	As per ASHRAE 52.2 and EN779		
Frame	Aluminium / GI / SS - Cassette type		
Gasket (optional)	Food grade, XLP / Neoprene		
Media	Non-woven synthetic media between Aluminium and HDPE mesh		
IPD at 2.5 m/s Air Velo	6 to 6.5 mm wg		
Recommended Air Velocity	2.5 m/s max		
FPD	38 mm wg		
Recommended cleaning	at 28 mm wg		
Average Efficiency	40 % ≤ Em < 60 %		
Suitable Usage Condition	Upto 70°C and RH 70%		
Cleaning properties	Water wash with / without mild detergent		
Standard Dimensions	H	W	D
(Non standard dimensions can be offered on request)	610	610	305/150
	610	305	305/150
	305	610	305/150
	305	305	305/150

Fine Filters Pleated Media – Flange Type

Technical Data



Grade	F5 / MERV 9 / MERV 10		
Standard	As per ASHRAE 52.2 and EN779		
Frame	Aluminium / GI / SS - Flange type		
Gasket (optional)	Food grade, XLP / Neoprene		
Media	Non-woven synthetic media between Aluminium and HDPE mesh		
IPD at 2.5 m/s Air Velocity	6 to 6.5 mm wg		
Recommended Air Velocity	2.5 m/s max		
FPD	38 mm wg		
Recommended cleaning	at 28 mm wg		
Average Efficiency	40 % ≤ Em < 60 %		
Suitable Usage Condition	Upto 70°C and RH 70%		
Cleaning properties	Water wash with / without mild detergent		
Standard Dimensions	H	W	D
(Non standard dimensions can be offered on request)	610	610	305/150
	610	305	305/150
	305	610	305/150
	305	305	305/150

Bag Filter Pocket Type



Technical Data

Grade	F7 / MERV 13		
Standard	As per ASHRAE 52.2 and EN779		
Frame	Aluminium / GI / SS - Flange type		
Gasket	Food grade, XLP / Neoprene		
Media	Non-woven synthetic / SMF welded pocket		
Recommended Air Velocity	2.5 m/s max		
FPD	45 mm wg		
Recommended cleaning	at 30 mm wg		
Average Efficiency	80 % ≤ Em < 90%		
Suitable Usage Condition	Upto 70°C and RH 70%		
Cleaning properties	Non washable		
Standard Dimensions	H	W	D
(Non standard dimensions can be offered on request)	610	610	305 / 370 / 610
	610	305	305 / 370 / 610
	305	610	305 / 370 / 610
	305	305	305 / 370 / 610

Bag Filter Pocket Type



Technical Data

Grade	F8 / MERV 14		
Standard	As per ASHRAE 52.2 and EN779		
Frame	Aluminium / GI / SS - Flange type		
Gasket	Food grade, XLP / Neoprene		
Media	Non-woven synthetic / SMF welded pocket		
Recommended Air Velocity	2.5 m/s max		
FPD	45 mm wg		
Recommended cleaning	at 30 mm wg		
Average Efficiency	90 % ≤ Em < 95%		
Suitable Usage Condition	Upto 70°C and RH 70%		
Cleaning properties	Non washable		
Standard Dimensions	H	W	D
(Non standard dimensions can be offered on request)	610	610	305 / 370 / 610
	610	305	305 / 370 / 610
	305	610	305 / 370 / 610
	305	305	305 / 370 / 610

Super Fine (Semi HEPA), Deep Pleat Media – Cassette Type



Technical Data

Grade	F9 / MERV 15 / MERV 16		
Standard	As per ASHRAE 52.2 and EN779		
Frame	Aluminium / GI / SS / Particle Board - Cassette type		
Gasket	Food grade, XLP / Neoprene / Endless PU		
Media	Micro Glass Fiber with Al. foil separator		
IPD at 2.5 m/s Air Velocity	12 to 15 mm wg		
Recommended Air Velocity	2.5 m/s max		
FPD	45 mm wg		
Recommended replacement	at 40 mm wg		
Average Efficiency	95 % ≤ Em		
Suitable Usage Condition	Upto 70°C and RH 70%		
Standard Dimensions	H	W	D
(Non standard dimensions can be offered on request)	610	610	305/150
	610	305	305/150
	305	610	305/150
	305	305	305/150

Super Fine (Semi HEPA), Deep Pleat Media – Flange Type



Technical Data

Grade	F9 / MERV 15 / MERV 15 / MERV 16		
Standard	As per ASHRAE 52.2 and EN779		
Frame	Aluminium / GI / SS - Flange type		
Gasket	Food grade, XLP / Neoprene or Endless PU		
Media	Micro Glass Fiber with Al. foil separator		
IPD at 2.5 m/s Air Velocity	12 to 15 mm wg		
Recommended Air Velocity	2.5 m/s max		
FPD	45 mm wg		
Recommended replacement	at 40 mm wg		
Average Efficiency	95 % ≤ Em		
Suitable Usage Condition	Upto 70°C and RH 70%		
Standard Dimensions	H	W	D
(Non standard dimensions can be offered on request)	610	610	305/150
	610	305	305/150
	305	610	305/150
	305	305	305/150

HEPA, Deep Pleat Media – Cassette Type



Technical Data

Grade	H14		
Standard	As per EN1822		
Frame	Aluminium / SS / Particle Board - Cassette type		
Gasket	Endless PU		
Media	Micro Glass Fiber with Al. foil separator		
IPD at 2.5 m/s Air Velocity	38 mm wg		
Recommended Air Velocity	Max 2.5 m/s for 300 deep and 1.25 m/s for 150 deep		
FPD	70 mm wg		
Recommended replacement	at 50 mm wg		
Average Efficiency	≥ 99.997% at 0.3 μm / ≥ 99.995 % at MPPS		
Suitable Usage Condition	Upto 70°C and RH 70%		
Standard Dimensions	H	W	D
(Non standard dimensions can be offered on request)	610	610	305/150
	610	305	305/150
	305	610	305/150
	305	305	305/150

HEPA, Deep Pleat Media – Flange Type



Technical Data

Grade	H14		
Standard	As per EN1822		
Frame	Aluminium / SS - Flange type		
Gasket	Endless PU		
Media	Micro Glass Fiber with Al. foil separator		
IPD at 2.5 m/s Air Velocity	38 mm wg		
Recommended Air Velocity	Max 2.5 m/s for 300 deep and 1.25 m/s for 150 deep		
FPD	70 mm wg		
Recommended replacement	at 50 mm wg		
Average Efficiency	≥ 99.997 % at 0.3 μm / ≥ 99.995 % at MPPS		
Suitable Usage Condition	Upto 70°C and RH 70%		
Standard Dimensions	H	W	D
(Non standard dimensions can be offered on request)	610	610	305/150
	610	305	305/150
	305	610	305/150
	305	305	305/150



Air Filters Classification and general guidelines for their applications

Technical Data

General Classification	Arrestance or Dust Spot Efficiency	US ASHRAE 52.2	European Union EN779 Class		Typical Controlled Contaminant	Application		
PRE Filter (G Class)	AFI <65 %	MERV 1	G1	Am < 65%	Particles bigger than 10.0µm are visible through naked eyes, such as construction dust, unpaved road dust, field fire dust, Boiler ash, Pollens, Spanish moss, Dust mites, Sand dust, Spray paint particles, Textile fibers, etc.	Domestic and Commercial comfort HVAC systems		
	AFI 65%-70%	MERV 2	G2	65% ≤ Am < 80%				
	AFI 70%-75%	MERV 3						
	AFI 75%-80%	MERV 4						
	AFI 80%-85%	MERV 5	G3	80% ≤ Am < 90%	Particle size from 3.0µm to 10.0µm such as, Mold, Spores, Hair Spray, Cement Dust, Snuff, Milk Powder, Spray paint particles	Commercial HVAC, industrial HVAC, paint shops		
	AFI 85%-90%	MERV 6						
	NBS 25%-30%	MERV 7	G4	90% ≤ Am				
	NBS 30%-35%	MERV 8						
MEDIUM Filter (F Class)	NBS 40%-45%	MERV 9	F5	40% ≤ Em < 60%			Particle Size from 1.0µm to 3.0µm such as, Lead dust, Floor mill dust, Coal dust, Auto emissions, Nebulizer drops, solid water scales, Welding fumes, etc.	IAQ sensitive commercial & industrial HVAC, general healthcare HVAC applications
	NBS 50%-55%	MERV 10						
	NBS 60%-65%	MERV 11	F6	60% ≤ Em < 80%				
	NBS 70%-75%	MERV 12						
	NBS 80%-85%	MERV 13	F7	80% ≤ Em < 90%	Particle size from 0.3µm to 1.0µm such as, All bacteria, cooking oil fumes, Most smoke, Copier toners, Most face powders, Most paint pigments, particles released through sneezing.	IAQ sensitive commercial and industrial HVAC, surgical rooms, food industries, smoking lounges, thick crowd public places (Airports, Community Halls, Malls, Theatres, etc concerned about public health.)		
	NBS 90%-95%	MERV 14	F8	90% ≤ Em < 95%				
	NBS >95%	MERV 15	F9	95% ≤ Em				
MERV 16								



Air Filters Classification and general guidelines for their applications

Technical Data

Classification	Mean Fractional Efficiency	IEST RP-CC001.3	European Union EN1822 Class	European Union EN779 Class	Typical Controlled Contaminant	Application
HEPA Filter (H Class)	≥95% at 0.3µm	n/a	H10	≥85% at MPPS	Particle size bigger than 0.3µm such as, attached virus, Fine carbon dust, Sea salts, All combustion smoke, Radon descendants, etc.	All types of cleanrooms, operation theaters, manufacturing industry for electronics, hard disks, medical devices, semiconductors, nuclear, food and pharmaceutical products, etc.
	≥98% at 0.3µm		H11	≥95% at MPPS		
	≥99.97% at 0.3µm	TYPE A				
	≥99.99% at 0.3µm	TYPE C	H12	≥99.5% at MPPS		
	≥99.995% at 0.3µm		H13	≥99.95% at MPPS		
	≥99.999% at 0.3µm	TYPE D	H14	≥99.995% at MPPS		
ULPA Filter (U Class)	≥99.9995% at 0.12µm	TYPE F	U15	≥99.9995% at MPPS	Particle size bigger than 0.12µm such as attached virus, Fine carbon dust, Sea salts, All combustion smoke, Radon descendants, etc	Super cleanrooms, such as Pharma, Electronic industries, Medical, etc.
	≥99.99995% at 0.12µm		U16	≥99.99995% at MPPS		
	≥99.999995% at 0.12µm		U17	≥99.999995% at MPPS		

Abbreviations:

- AFI : American Filter Institute
- Am : Average Arrestance Efficiency for Coarse Filters
- ASHRAE: American Society of Heating Refrigerating & Air-conditioning Engineers
- Em : Average Efficiency for Fine Filters
- HEPA : High Efficiency Particulate Air Filter
- IEST : Institute of Environmental Sciences and Technology
- MERV : Minimum Efficiency Reporting Value
- MPPS : Most Penetrating Particle Size
- NBS : National Bureau of Standards
- ULPA : Ultra Low Penetration Air Filter

OUR PRODUCT RANGE

Industrial Filter Division

- All types of Filter Elements
- HVAC Filters (Hepa, Fine, Pre) & Clean-Room Projects
- AHU & Air Washer Unit
- Cooling Pads
- Hydraulic Fuel, Oil & Air Filters
- Turbine, DC Motor Filters
- Bag Filters
- Sintered Bronze Filters
- Filters Cartridges

Pneumatic Division

- All types of Air/Gas Dryers
- Oil/Water Removal Filters
- Auto Drain Traps
- Activated Carbon Filters
- Sterile Filters
- Air/Oil Separators
- Moisture Separators/Demister Pads
- After Coolers/Air Receivers

Process Division

- All types of Strainers
- Filtration Plants
- Self Cleaning Filters
- Oil Cleaners
- Filter Media (Paper, Fabric)
- Water/Liquid Filters
- Filter Pads
- Sugar Nickel Screen

Equipment Division

- Heat Exchangers/Radiators
- LDO Filter Kits
- Sugar Roller Grooving Tools
- Oil Water Separators
- Room Dehumidifiers
- Chilling Plants
- Twin Lobe Blowers & Spares
- Oil Skimmers

Our Customers

We serve several thousands customers in all sectors of Indian & foreign industry. Some of our esteemed customers.

Govt. Sector	* BPCCL	* IGPS	* IFFCO	* ITC	* Onida	* Bajaj	* Reliance	* Indure	* Jubliant	* Raddisn Hot
* NSC	* HPCL	* Ministry	* Centaur Hotel	* Hero Honda	* Thai Air	* Balrampur	* Grasim	* DCM	* Oswal	* Philips
* I Mint (Noida)	* BRPL	* Centaur	* Delhi Univsity	* Honda Motors	* Jet Air	* Mawana	* SRF	* EID Parry	* L & T	* Parle
* PTPS	* NPL	* I.I.T.	* IARI	* Birla Group	* Eveready	* Saraswati	* Shriram Group	* G.E.	* Parle	* Parag
* DCPD	* NPC	* ITI	* Holland	* DLF	* Anand Group	* Daurala	* Hindalco	* D.S.	* Parag	* JCB
* Pragati	* CRI	* M.D.	* Embassy	* Unitech	* Amtech	* Modi	* ACC	* Asian Paint	* Paras	* Atlas
* BHEL	* IGL	* Safal	* American	* Omaxe	* Rico	* ISGEC	* Shree Cement	* Bhushan	* Daewoo	* Thomson
* GAIL	* Air force	* CEERI	* Embassy	* Ansal	* Airtel	* DSCCL	* Caterpillar	* Coke	* Godrej	* French Bakery
* SAIL	* Power Grid	* MES	Private Sector	* Samtel	* Escorts Group	* Dhampur	* Skol Beverage	* Pepsi	* Bhartia Cutler	* Hero
* NTPC	* Airports	* Mazagon Dock	* LG	* Ester	* Samsung	* Ballarpur	* Naran Lala	* Norcool	* Havel	* Delphi
* NHPC	* DMS	* Port	* Dabur	* Paharpur	* Jindal Group	* Dalmia	* Simplex	* Heinz	* Fortis Hospital	* Eicher
* EIL	* Metros	* IMT	* Britannia	* Flex	* Rayban	* J.K. Group	* T Series	* J.K. Tyre	* Escort Hosptl.	* Xerox
* ISRO	* PPCL	* IDMC	* Panasonic	* New Holland	* Kajaria	* Thomson	* H.T.	* Modi Group	* Batra Hospital	* Yamaha
* Railways	* Govt. Mint	* Indian Airlines	* Moser Baer	* Sony	* Carrier	* BPL	* T.O.I.	* Timex	* Metro Hosptl.	* Various Govt. &
* Container corp	* VSNL	* AVI Oil	* Suzuki/Maruti	* Olympus	* Whirlpool	* Kessel	* Haldiram	* Indian Glycol	* Apollo Hosptl.	Pvt. Power, Sugar,
* Bharat Refrec	* Govt.Forest	* BARC	* Tata Group	* Tecumseh	* Philips	* TIL	* Satnam	* Glaxo	* Maurya Hoter	Dairy, Art Gallery,
* IOCL	* STIC	* Kribhco	* TVS	* Osram	* Triveni	* KAY	* Spectro	* Panacia	* Samrat Hotel	Pharmaceutical.

Countries Exporting

UAE, USA, UK, France, Thailand, Malaysia, Kenya, Germany, Iraq, Uganda, Ethiopia, Canada, New Zealand, Indonesia, Pakistan, Nepal, Mauritius, Singapore, Oman, Iran, Afghanistan, Saudi Arabia, Qatar, Bangladesh, Bahrain, Nigeria, South Africa etc.

For detailed catalogue/information and offer, please contact at corporate office:

AN ISO 9001:2015, 14001:2015, 45001:2008 Certified Co.



Advance International



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