



HVAC FILTER SERIES

We
provide
superior filters
worldwide.



Pre filter with
activated carbon
– removes large
particulates and
odours
Media velocity –
2.5 m/s

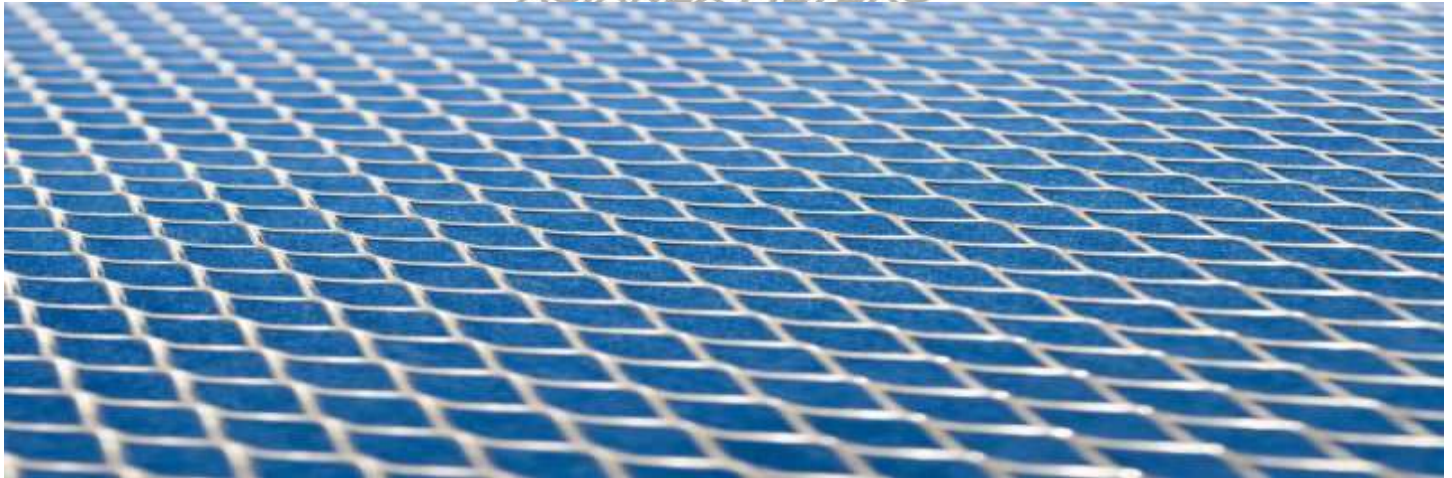
Second-stage
filters
(extended surface
filter)
Media velocity –
0.12 m/s

HEPA filter – removes
dust, pollen, bacteria,
animal dander, etc.
Media velocity –
limited to about 0.03
m/s

VOC filter –
removes hazardous
chemicals that may
give off gas from
cleaners, paints,
solvents, carpets,
furniture and other
items

PURIFIED PERFORMANCE

ASIAN FILTRATION TECHNOLOGY | AN ISO9001-2015 & CE Certified Manufacture



TYPES OF - HVAC FILTERS & MERV RATINGS

Over the last decade, the adoption of the minimum efficiency reporting value (MERV), introduced by ASHRAE, standardized definitions of efficiency. What MERV does is measure a filter's ability to remove particles from the air, large or small. Generally, most contractors suggests using an air filter that is HEPA made. This is because it's the most efficient in blocking out particles and allergens, and improves indoor air quality. Rule of thumb: the higher the MERV rating, the better the air filter.

ASIANEX- HVAC FILTER SERIES

TYPE	ADVANTAGES	DISADVANTAGES	MERV VALUE
Fiberglass Air Filters	Cheap. Available anywhere. Easy to replace.	Replaced every month. Does not improve indoor air quality.	1-4
Pleated Filters	Long-lasting (up to 12 months). Captures smaller air particles. Helps improve indoor air quality. Available in many sizes.	Wider pleated filters may require modification to fit in ductwork. More expensive.	8-13
(HEPA) Filters	Removes high percentage of allergens. Removes most bacteria. Most particles captured are not released in the air again.	Does not remove fumes, smoke, or odors. No as effective in capturing the smallest viruses. Micro-organism captured in filter can breed or reproduce.	14-16
Washable Filters	Washable. Inexpensive for reusable filter.	Extensive maintenance. Considered as the worst filter.	1-4

WHAT IS - MERV VALUE ? MERV means Minimum Efficiency Reporting Value which was developed by the American Society of Heating, Refrigeration and Air Conditioner Engineers - ASHRAE. MERV values vary from 1 to 16. The higher the MERV value is the value the more efficient the filter will be in trapping airborne particles.

PURIFIED PERFORMANCE

ASIAN FILTRATION TECHNOLOGY | AN ISO9001-2015 & CE Certified Manufacture



ASIANEX - PRE-FILTERS- HVAC

- Available up to a filtration efficiency of 95% for 10 micron particle size. (Overall filtration efficiency by using discrete particle count efficiency test method).
- Suitable for use as filter grades G1 to G4 of EN 779 and MERV 1 to 7 of Ashrae 52.2.
- Can be manufactured with or without "Flange" or "Header".
- Optional perforated metal or expanded metal guard.
- Available in casing thickness from 0.5 to 1.5 mm in MOC variants of Galvanized.
- Sheet steel, Aluminium or Stainless steel with suitable surface finish.
- Available in extruded aluminium profile casings with plastic corner.
- Manufactured in standard sizes as mention below and also for the customer's specific sizes

ASIANEX BRAND - TYPES OF – PREFILTERS

WATER WASHABLE TYPE	Multiple layers of mono filament synthetic woven fabric of suitable mesh size and mono filament thickness stitched with an aluminium expanded metal reinforcement is used as the filtration media. In cases where necessary, aluminium pipes rigidly fixed to the casing with PPCP studs at each pleat act as pleat supports. Pleated media for enhanced surface area, higher dust holding, higher air handling capacity & lesser pressure drop. Epoxy or PU sealants to bond casing to the filtration media.
AIR CLEANABLE TYPE	Non woven synthetic fibre filtration media in Hi-loft or Needle punched fabric with suitable covering and aluminium expanded metal reinforcement is used as the filtration media. Pleated media for enhanced surface area, higher dust holding, higher air handling capacity & lesser pressure drop. PU foam and synthetic water based adhesives to seal media with casing.
METALLIC VISCOUS TYPE	Combination of flat and corrugated layers of metallic meshes of varying mesh sizes and wire diameter is used as filtration media. Can be used as a dry filter or as oil wetted filter. Can be used in series with a louver filter to improve life and performance. Options of GI and stainless steel wire meshes available. Most suitable as paint booth exhaust filters and kitchen exhaust filters.
HIGH TEMPERATURE TYPE	

STANDARD SIZES

625x625x48 mm	500x400x48 mm	305x305x48 mm
625x500x48 mm	400x400x48 mm	610x610x75 mm
625x400x48 mm	610x610x48 mm	610x610x100 mm
500x500x48 mm	610x310x48 mm	610x610x150 mm

PURIFIED PERFORMANCE

ASIAN FILTRATION TECHNOLOGY | AN ISO9001-2015 & CE Certified Manufacture



ASIANEX - FINE FILTERS - HVAC

- These are extended surface filters that can be manufactured either in either "Rigid pocket" or "Soft pocket" types to suit the application.
- Available up to filtration efficiency of 95% for 1micron particle size. (Overall filtration efficiency by using discrete particle count efficiency test method).
- Suitable for use as filter grades F5 to F9 of EN779 and MERV 8 to MERV 15 of ASHRAE 52.2.Can be manufactured with or without "Flange" or "Header".
- Optional perforated metal or expanded metal guard.
- Available in casing thickness from 0.5 to 1.5 mm in MOC variants of Galvanized sheet steel, Aluminium or Stainless steel in varying depths of 25, 100, 150, or 300 mm.
- Suitable surface finish for the casing can be provided.

ASIANEX BRAND - TYPES OF - FINE FILTERS

AIR CLEANABLE RIGID POCKET FINE FILTERS	Options of "Hi - Loft" or "Needle punched" synthetic non woven filtration media or "Melt blown" synthetic filtration media.Pleated media for enhanced surface area, higher dust holding, higher air handling capacity & lesser.P Optimum pleat density to achieve lowest possible pressure drop for a given air flow rate. Suitable pleat retaining mechanism at air exit side to avoid pleat collapse and to ensure maximum utilization of the effective media area. Aluminium pipes rigidly fixed to the casing with PPCP studs at each pleat act as pleat supports. Epoxy or PU resin or synthetic foam used to bond and seal filtering media to the casing.
WATER WASHABLE RIGID POCKET FINE FILTERS	Multiple layers of mono filament synthetic woven fabric of suitable mesh size and mono filament thickness stitched together and used as the filtration media. Available with a filtration efficiency of 90% for 5 micron particle size (Efficiency by using discrete particle count efficiency test method).
SOFT POCKET FILTER TYPE FINE FILTERS	Can be manufactured with any number of pockets with pocket depths upto 600 mm subject to design conditions. Designed for optimum number of pockets and pocket depth to achieve lowest pressure drop to a given air flow rate. Filtration media will be "Melt blown" synthetic with ultrasonic welded pockets. Internally ultrasonic welded soft spacers prevent pocket ballooning. GI pocket supports hold each pocket and the pockets are mechanically fixed and also glued to each other and also the casing to give a leak free and rigid filter.Pocket filters cannot be serviced / cleaned and are basically disposable type extended surface filters.
SIZES	
625 x 625 mm	400 x 400 mm
625 x 500 mm	760 x 610 mm
625 x 400 mm	610 x 610 mm
500 x 500 mm	610 x 305 mm
500 x 400 mm	305 x 305 mm

PURIFIED PERFORMANCE

ASIAN FILTRATION TECHNOLOGY | AN ISO9001-2015 & CE Certified Manufacture



ASIANEX - HEPA FILTERS - HVAC

- Available up to a filtration efficiency of 99.999% for 0.3 micron particle size. (Overall filtration efficiency by using discrete particle count efficiency test method or by Photometer point to point scan test with PAO / DOP challenge aerosol).
- Suitable for use as filter grades H13 and H14 of EN1822 and suitable for ISO Class 5 operation as per ISO 14644.
- Can be manufactured with or without "Flange" or "Header".
- Optional perforated metal or expanded metal guard.
- Available in casing thickness from 0.5 to 1.5 mm in MOC variants of Galvanized sheet.
- Steel, Aluminium or Stainless steel with suitable surface finish.
- Filtration media is Micro glass fibre of "Lydall" or "H&V" makes.
- Manufactured in standard as well as customer specific sizes.
- Available in both Deep pleat type (conventional aluminium separator style) and Mini pleat type (with hot melt separators).

DEEP PLEAT HEPA FILTERS	Available in choice of depths of 100, 145 and 295 mm. 0.04mm thick safe edged aluminium corrugated separators. Epoxy or PU resin used as potting compounds to seal the media pack with casing. Silicone sealants used to seal all other leak sensitive points. Options of CCN / XLPE strips with dove tailed joints for gaskets for leak free filter fitment. Available in 3 variants of Low flow, Standard flow and High Flow to suit varying air handling requirements.
MINI PLEAT HEPA FILTERS	Available in depths of 65, 75, and 90 mm. Hot melt separators at 1 inch spacing intervals throughout the width of the filtration media and running for the complete length of the filtration media. Epoxy or PU resin used as potting compounds to seal the media pack with casing. Silicone sealants used to seal all other leak sensitive points. Extruded aluminium profiles used as casing for 65 and 75 mm depth mini pleat Hepa filters. Soft silicone, extruded, one piece, round edged gasket mechanically fixed inside casing groove and pasted for leak free filter fitment. Available with supply hood and up-stream port suitable for use as a terminal filter directly connectable to a round or square duct. Metallic protective guard provided on both sides as a standard feature.
V - BANK HEPA FILTERS	Available in 2-V or 4-V formats with 600mm x 600mm face dimensions. Each V - Bank Hepa filter comprises of multiple smaller sized mini pleat Hepa filters to enhance the air handling capacity. Useful in non uni directional flow applications.
HIGH TEMPERATURE HEPA FILTERS	Suitable for use up to 250 Deg C operations. Silicone sealants used to seal casing to media pack. Available only in deep pleat type. Gasket will be of silicone or of fibre glass media. All other details of construction similar to Deep pleat Hepa filters.

STANDARD SIZES

1830 x 610 mm	610 x 305 mm	1220 x 760 mm
1220 x 610 mm	305 x 305 mm	915 x 760 mm
915 x 610 mm	1220 x 915 mm	1220 x 455 mm
610 x 610 mm	915 x 915 mm	915 x 455 mm

PURIFIED PERFORMANCE

ASIAN FILTRATION TECHNOLOGY | AN ISO9001-2015 & CE Certified Manufacture



ASIANEX - DRY TYPE - WASHABLE POLYESTER PRESSED MEDIA FILTERS

Application	These filters are used in Pharmaceuticals, Electronic, Nuclear, Hospital, Computer and Synthetic Fibre Industry. And Paint Booth and Electric & Diesel Generators and also used as Pre-filters to absolute Air Filters.
Efficiency	99 % for particle size of 5 microns
Frame	Mild steel painted or Aluminium with handle and gaskets in flange or Box type in different sizes and capacity
Media :	Polyester pressed, Woolen pressed filter fabric stitched in GI wire gauze support
Servicing :	3 cleaning in 6 months by reverse air jet at 100 PSI at 19 mm Wg
Dust Holding Capacity	150 Gms / M ²

SL . NO.	SIZE OF THE FILTERS	CAPACITY CFM	MEDIA AREA
1	24" X 24" X 12 "	2000 Cfm	10 Mt ²
2	24" X 24" X 6 "	1000 Cfm	5 Mt ²
3	20" X 20" X 6 "	700 Cfm	4 Mt ²
4	24" X 24" X 2 "	340 Cfm	1.7 Mt ²
5	25" X 20" X 2 "	300 Cfm	1.5 Mt ²
6	20" X 20" X 2 "	240 Cfm	1.3 Mt ²



PURIFIED PERFORMANCE

ASIAN FILTRATION TECHNOLOGY | AN ISO9001-2015 & CE Certified Manufacture



ASIANEX DRY TYPE - WASHABLE-HDPE POLYETHYLENE MESH MEDIA FILTERS

Application	This filter are for high efficiency with high chemical, corrosion resistance, ideal for chemical plants, Naval Frigates, Ventilation Plants operating under variable humidity atmosphere
Efficiency	99 % to 5 microns / 95 % to 20 microns
Frame	Mild Steel enamel painted / Aluminum or Galvanized flange type or box type
Media :	High Density Polyethylene mesh in different nos of layer for different efficiency
Servicing :	Washed by commercial detergent at 19 mm Wg pressure. Filters should be allowed to dry before refitting

HDPE MESH FILTERS- SELECTION CHART

EFFICIENCY	90% TO 20 Mn	95 % to 10 Mn.	99% 5 Mn
WITH NOS OF PLY OF MEDIA REQUIRED	3 Ply	4 Ply	5 Ply
SR. NO.	SIZE OF THE FILTERS	CAPACITY	IN CFM
1	24" X 24" X 12 "	8680	3200
2	24" X 24" X 6 "	4340	1600
3	20" X 20" X 6 "	3000	1100
4	24" X 24" X 2 "	1450	540
5	20" X 25" X 2 "	1260	490
6	20" X 20" X 2 "	1000	370
7	20" X 16" X 2 "	800	305



PURIFIED PERFORMANCE

ASIAN FILTRATION TECHNOLOGY | AN ISO9001-2015 & CE Certified Manufacture