



An ISO 9001 Certified Company

CLEAN AIR SYSTEMS DIVISION

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Particulate type Pre-filters

- Synthetic media
- Fiberglass media
- Pleated panel type

All types of panel type and pleated type filters are available in various sizes and efficiencies as per ASHRAE/ISO standards.

ASHRAE Rating from MERV-1 to MERV-4 as per ASHRAE 52.2 2012 average arrestance.



ROLL Filters

- Synthetic Media Rolls
- Fiberglass Media Rolls
- Paint booth roll filters
- Replacement Roll filters for Automatic roll filter units.

All types of Roll Filters in various thickness, width and also available as cut pads as per customer/OEM size requirements



BAG Filters

Bag filters in different frame sizes and bag length, material (synthetic type, micro-fine glass fiber media type), ASHRAE efficiencies are available for replacement as well as for OEM applications in HVAC and other Industrial applications

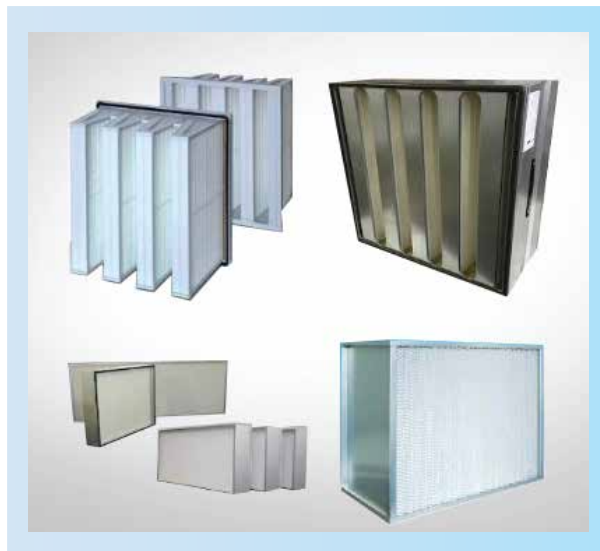
ASHRAE Rating from MERV-9 to MERV-15 as per ASHRAE 52.2 2012 particle size efficiency



Rigid Cartridge Type Filters

Rigid Cartridge type filters are available in:

- MERV 14, MERV 13 AND MERV 11 EFFICIENCIES.
- High impact resistant plastic cell sides.
- Galvanized steel, Aluminium, SS cell sides.
- Various sizes as per client requirements.
- High capacity versions
- Different header types for easy mounting.
- High temperature applications.
- Low pressure drop



HIGH EFFICIENCY PARTICULATE AIR (HEPA) & ULTRA LOW PARTICULATE AIR (ULPA) FILTERS

Highest efficiency filters in HEPA and ULPA ranges are used in Health Care facilities and places where ultra clean air is required. The filters are available with:

- Standard capacity and High capacity
- Gasketed seal and Gel seal type
- High temperature models.
- UL Class 1, Class 2, 586
- Individual Test Certificate
- Knife Edge, Disposable ceiling modules etc.



CEILING MODULES

Various types of Ceiling modules are available for Health Care Facilities, Clean Rooms etc.

- Laminar flow type
- Knife edge/Gel seal type
- Mini pleat type filters
- Efficiency rating 99.999%
- Easy replacement
- Low resistance & high capacity.
- Perforated diffuser
- Volume control adjustable damper
- Differential pressure measurement ports.



FILTER UNIT FOR HEALTH CARE FACILITIES – CONTAMINATION CONTROL & ISOLATION AREAS:

Health Care facilities have Critical Care areas such as; Isolation Wards, Contamination Control center etc., The area uses special Bag-In-Bag-Out (BIBO) type housings and High efficiency filters to contain the disease.

Similar units are also used in Nuclear Medicine areas where the exhaust air is treated before discharging to atmosphere.

For designing best filter units for the application, please consult us.

GAS PHASE/CHEMICAL AIR FILTRATION EQUIPMENT, MEDIA AND MODULES



CHEMICAL AIR FILTER/GAS PHASE:

A range of Gas Phase/Chemical Air Filters are available for Industrial and Commercial applications. Bulk fill and module type in various capacities depending on applications. Used particularly in Petro-chemical, Oil & Gas Industries for electronic corrosion control.



CHEMICAL FILTER MEDIA AND MODULES:

Various types of Chemical Media and Impact resistant HDPE Chemical Filter Modules are available for removing harmful and corrosive gases from air stream. Media and type of filters are selected based on the type of contaminant gases present in the air.



CARBON IMPREGNATED BAG FILTERS AND RIGID FILTERS:

For maintaining indoor air quality and for Energy efficiency, Bag type and Rigid type Carbon filters are used in HVAC systems. These filters are available in various sizes and also to deal with different types of Indoor pollutants.



AMBIENT AIR CORROSIVITY ANALYSIS:

We can perform ambient air corrosivity study by using corrosion classification coupons.

Also real-time corrosion monitors are used in existing facility to monitor the indoor air quality of the facility/room.

ENVIRONMENTAL PRODUCTS



ODOR CONTROL & DUST CONTROL SYSTEMS (WET & DRY)

Waste water Odor is a major issue when the lift stations and sewage treatment plants are located within the populated area. H₂S, Mercaptan, indole, skatole etc., are gases that cause the odor in these facilities.

From small lift stations to large Central Waste Treatment plants, Odor control units of small and large sizes are used. Depending on the concentration and the gases that are present, the units vary in size and also in the process. When the concentration is high, multi stage liquid or dryscrubbers are required and in some cases, for very low emission requirements, a combination of multi-stage Wet/Dry combination is used.

We can design and supply any combination of Odor scrubber from very small capacity to the largest capacities as per client requirements and specifications.



KITCHEN ECOLOGY UNITS:

Large Kitchens in Hotels, Restaurants, Malls and conference centers release a lot of smoke, grease and cooking odor. If not properly contained, this becomes a potential danger to the atmosphere and also to the inhabitants nearby causing Fire Hazard. Multi stage Kitchen Ecology Units are supplied by us which has Grease filters, pre, medium and high efficiency filters, Electrostatic Precipitators, Carbon filters to remove Grease, dust Particles, bacteria, smoke and odor in one single unit. Please consult us about your design and installation requirements.



AIR IONIZATION FILTER UNIT

Air ionization systems supply highly ionized air with O_2^+ and O_2^- ions to the application areas. These ions proactively attack the contaminants at their source while vastly improving indoor working conditions. As a second purification step, outside air may be ionized and mixed with pretreated facility air in an exhaust air handler to deliver high quality exhaust. Applications include various Industrial, Commercial and wastewater plant to remove Bacteria, dust, pollen, mold and Odor. Indoor air quality is maintained well within the requirements while reducing fresh air intake and thereby the Energy cost.



BAG HOUSES AND DUST COLLECTORS:

Wood, Iron & Steel, Cement Industries and Chemical plants generate contaminants in the form of Fine Dust, Particulates, smoke & Gases. Free emission of these contaminants can destroy the environment and cause life threat to all living beings. To Contain these heavily polluting emission we supply very effective dust collectors & bag houses. Replacement bags, cage and accessories in various sizes are also under our scope of supply.



VISCOUS TYPE OIL BATH FILTERS:

In high temperature and high dust conditions, the self cleaning viscous air filter or oil bath filter is particularly suitable in many industrial applications to filter large air volumes with high dust concentrations.

The advantages of viscous air filter are:

- High cleaning efficiency and constant pressure drop
- Minimum maintenance
- Easy installation



AUTOMATIC ROLL FILTER

Automatic Roll Filters are used in various applications such as hospitals, commercial buildings, major universities, and industrial systems. Depending on heavy dirt loads, variable air volumes, varying humidity levels, and individual application requirements, various types of Automatic Rolls are available in synthetic and glass-fiber media. All types consist of progressively dense media/adhesive to enhance dust holding capacity. A full-width integral backing on every roll provides protection against necking and fiber break-off. Consult us to find the right media for your equipment and complete technical data and recommended application.



ELECTROSTATIC PRECIPITATOR (ESP)

An electrostatic precipitator is a filtration device that removes fine particles, like dust and smoke from a flowing gas using the force of an induced electrostatic charge minimally impeding the flow of gases through the unit.

ESP eliminates up to 98% of smoke, oil and grease particles which makes it ideal for kitchen exhaust applications. Electrostatic Precipitators greatly reduce grease build-up within the duct and filters particles to sub-micron levels. Produces ozone to reduce/remove odors.



INERTIAL AIR FILTER WITH BLEED FAN

Inertial Separator

- Factory assembled for easy on-site installation
- Self-cleaning operation
- Low airflow resistance
- Long service life

These units are supplied with bleed fans for their self-clean operation.



FRESH AIR SUPPLY UNITS WITH INERTIAL AIR FILTERS AND BLEED FANS:

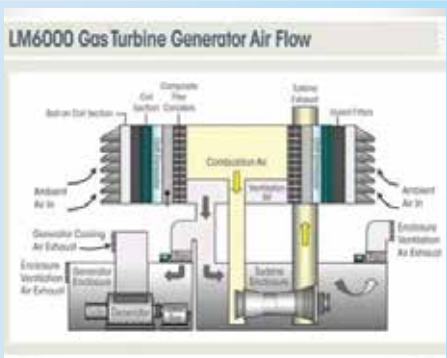
Fresh air supply units with Inertial Air Filter (Sand Filter) Bleed fan combination for dry desert climate where heavy and coarse particles of dust exist. Efficiency ratings shall not be less than 93% on Standardized Coarse Air Cleaner Test Dust.

Fresh Air Supply units for all types of Industrial and Commercial applications for HVAC Etc. Combination of Air Filters including Inertial Air Filters with Bleed fans for fresh air intake and also filters that has various ISO/ASHRAE efficiency rating as per Industrial standards.



CHEMICAL FILTERS FOR COMPRESSOR CORROSION CONTROL.

Provides clean corrosion free compressed air for operating various industrial equipment and to protect them from the damaging effects of corrosion. Ensure compressors run properly, with a long service life and minimal repairs.



MACHINERY INTAKE FILTRATION

Self-Clean and Conventional type Machinery Intake Filtration System for Gas Turbines, Compressors, Engines and Industrial Process Air Intake etc.



OTHER PRODUCT RANGE

- Tank Valves & Fittings (Pressure/ Vacuum Relief Valve, Emergency Vents, Gauge Hatch, Flame Arrestor, etc.)
- Floating roof seals, Floating roof, Roof Drain systems, Oil Skimmer, Floating Suctions for floating roof tank.
- Aluminum Dome Roof.
- CO2 Filters / Scrubbers, VOC filters, dust filters.
- De superheater, jet mixers, mixing educator.
- Flow Indicators, Switches & Transmitters, Pressure Gauges & Temperature Gauges
- Level Indicators, Level Gauges, Level Switches & Transmitters.
- Control Valve, ON / OFF Valve, Manual Valves and Regulators.
- Ball valve, check valve, butterfly valve, gate valve, globe valve, pressure reducing valve, balancing valve, motor operated valve, safety relief valves, Self Operated Pressure regulators
- Air compressor systems, Vacuum systems, Gas detectors and Gas detection systems.
- Water & Waste Water Pumps & Pump mounted skids and Desalination Pumps
- Pipe & pipe fittings (flanges, elbows, bends, reducers, tees, etc).
- Steel plates and structural steel.
- Special grade material supplier (Inconel / hastelloy / nickel / super duplex / etc)
- Modular access system, safety access system, loading racks, manhole covers.
- Hoses, Couplings & Fittings.
- Cable Trays, Electrical lighting, fittings & accessories.
- Fuel transfer pump skids, Fuel skids, process skids, etc.
- General trading of engineering items.
- Gratings & hand rails.
- Manhole covers, odour control manhole covers for sewerage systems.
- Plumbing and sanitary items.