



AN ISO 9001-2008 CERTIFIED CO.

Advance International



SUMMARY PRODUCT CATALOGUE OF AIR, LIQUID AND GAS FILTERS

HVAC Filters (HEPA, FINE and PRE) and Clean Room Projects

These filters are required for removing the dust and moisture from air, gas in different stages in case of Air handling units, Air Washer, Package Units, Clean room etc.

TYPE - Pre, Fine (microvee), Hepa (absolute), Ulpa, Minipleat, Bag (Pocket), Carbon etc.

Rating	Efficiency	Media
Pre- 10, 20, 50 micron	Upto 80-95%	Metallic, Synthetic, HDPE
Fine - 3, 5 micron	Upto 99%	Synthetic, HDPE
Hepa - 0.3 micron	Upto 99.97%	Glass Fibre

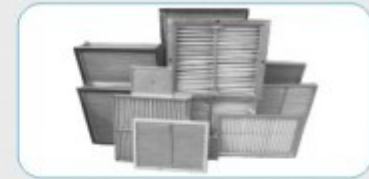
FRAME MS Painted, G.I., Aluminium, Wooden, Carton, Stainless Steel

TYPE Flanged/ Cassette (Box)

TESTS Ashrae 52-76 (equi DIN 24185), BS 6540/2831, IS/7613, Federal 209 D. Hepa Filters can be DOP Tested and certified as per various international standards.

APPLICATIONS Air conditioning, ventilation, dust control systems, clean rooms, hospitals, food, pharmaceutical, paint shop, Atomic, Nuclear, Electronic, chemical, Gas turbine, Compressor intake, Aerospace, Biological, Synthetic fiber, Plastic Industry, Photographic, computer etc.

FILTER HOUSING & ACCESSORIES - Mounting grids, housing & accessories can be designed & supplied for all the above mentioned filters. We undertake turnkey projects of clean room, Air handling units with cooling coil, Laminar Flow Benches, Air Shower, Air Curtain etc.



Filter elements of Housing and Equipments

Elements suitable for different makes of Indian and imported housings, machines and equipments

- Turbines (Triveni, BHEL, Apebellis, DLF, Metropolitan Vickers, Kessels, Thermodyne and other makes)
- DG Sets (Kirloskar, Cummins, Greaves (MWM) Skoda and other makes)
- Compressors (K.G. Khosla, Ingersol Rand, C.P.T., Atlas Copco, Kay, Kirloskar Pneumatic, Holman Climax, Elgi and other makes.)
- Blowers (Kay, Everest, Swam, Maniklal and other makes)
- EDM/wire cut machines
- Heavy earth moving equipments
Fluid Fuel, Air, Oil



Industrial Liquid Filters (Cartridge Type)

HOUSINGS

Type - Transparent and Opaque
MOC - ABS, Polycarbonate, PP, SS, CI, CS, MS etc.

CARTRIDGES

Type Wound, Spun, Pleated, Resin Bonded, Sintered, mesh, coalescing.

MOC SS, Polypropylene, Polyester, Cotton, Glass Fibre, Rayon, Nylon, membrane, felt, Ceramic, Carbon, cellulose and resin impregnated paper etc.

Working Temp. upto 400 Deg.C

Flow Rate 1 GPM to 4000 GPM

Working Pressure upto 100 Bar

Micron 0.0001 to 350 micron

Size (Length) 4" to 72" or special dimensions on demand.

Fluid - Water, Organic, Acid and Alkaline solutions, Bases, Oxidizing agents, Lube oil etc.

Applications Water, chemical, Beverages, Food Products, Petrochemical, Oil, Paints, ink, biological, aerospace, pharmaceutical, coatings, cosmetics, lab equipments, electronics, sugar process plant, Fertilizer, Power Generation, Special Purpose Machines, Drilling Rigs etc.



Depth Filter Pads, Discs & Sheets

TYPE - Coarse, Medium, Fine, Precoat, Sterilizing filtration

RAW MATERIAL - Pure Cellulose, Cotton-Linter, Hyflow Powder (cellulose-celite)

SIZE - Round Formats/Disc - 30mm to 1000mm (central & corner hole size as per requirement)

Square Formats - All sizes upto 1000 mm X 1700 mm
Special sizes on Demand.

FLUID - Beer, IMFL, Wine, Chemicals, Fruit Juice, Vegetable oils, Water, Drugs, Syrup, Injectibles, IV Fluid, Liquid Sugar, Liquors, Edible oils, Printing inks, paints, varnishes, hydraulic fluids, Antibiotic, Transformer & governor oils etc.

APPLICATIONS - Distillery, Breweries, Pharmaceuticals, Cosmetics, Food Industry, Sugar Industry, Chemical Industry etc.



Filter Medias (Fabric, Paper), Dust collector Bags & Discs

MATERIAL Polyester, Polypropylene, Acrylic, Nomex, Ryton, Glass Fibre, Nylon, Teflon, Polyacrylic, Nitrile, Antistatic, PTFE, Cellulose, Viscose etc.

MEDIA TYPE Non Woven and Woven

RATING 0.1 to 1000 micron

BAG TYPE Polish filter bag, Filter Bag for F.B.D., Pulse Jet filter Bag, Fibre Glass Filter Bag, Multilayer Filter Bag.

APPLICATIONS Cement Industry (Raw/cement mills, Kiln, clinker cooler, coal mills and packing plants), Flour mills, metal mining and quarry, sugar, pharmaceutical, chemical, fertilizer, viscose, dyestuffs and pigments, thermal power plants, battery, electroplating, beverages, dairy, refined oil, detergents etc.



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



Advance International

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Works: Indira Complex, Tigeon Road, Industrial Area, Greater Faridabad, Haryana



Specialist in all types of Air, Liquid and Gas Filters

Strainers

Used in the pipe line of Liquid [oil (L.D.O./H.S.D./F.O.), Water etc.], Air and Gas (LPG, N₂, NH₃ etc.)

TYPES Simplex, Duplex (basket type), Y type, T type, Conical, Suction Strainer, Self Cleaning, Back Flushing, Pressure Filter, Cartridge Filter, Filtration Skid etc.

M.O.C.	HOUSING	Casted	C.I./C.S./S.S./G.M.
		Fabricated	M.S./S.S.
	ELEMENT		SS 304/SS 316/Brass, Paper Sintered, Inorganic glass fiber, Monel Metal, Hest Alloy, Ceramic, PP, Nylon, String wound, polyester.
SIZE RANGE	Casted	-	NB ½" to 1 ½" Screwed - NB ½" to 24" Flanged
	Fabricated	-	NB ½" to 4" Screwed - NB ½" to 24" Flanged



APPLICATION Pumps, Engines, Measuring Instruments (Flow Meter), Burner, Heat Exchangers, Boilers, Turbines, R.O. Plants, Spray Nozzles, Fuel and Lubrication Systems, Sugarcane Juice Lines, Cooling Towers, Paint Shops, Swimming pools etc.

Air Oil Separators for Compressors

These are used to separate and reclaim lubricants in the air, gas stream of air compressors in general and rotary compressor in particular.

Main Media Borosilicate /glass fibre wrapped or in pleated construction

Rating - 0.3 to 3 micron

Material of casing Bright steel zinc plated corrosion resistance or SS
Connection Flanged / cylindrical

Flow Rate upto 1500 cfm

Efficiency between 2-4 ppm oil carry over depending on size and design style.

Performance initial pressure drop 0.18 bar @7 bar pressure. Design collapse differential pressure 4 bar, Maximum operating temperature 160 deg. C



Liquid Filtration Plants/Systems

It is a pressure precoat filter incorporating special stainless steel alloy elements having provision of self cleaning system. The coiled stainless steel wire forms a foundation for the deposited filter aid bed. It has high filtration efficiency from 5 microns down to 0.5 micron. This can be designed as per clients requirement.

Applications Purifying rolling mills oil at aluminium products (foils etc.) works, clarifying sugar juice at sugar factory, public water supply, polishing sugar syrup for mineral water manufacturer, soft drink factory, pharmaceuticals, precious metal solutions, perfumes, waxes, oils and many other products where a crystal clear filtration is required.

TYPE

Element

Replaceable elements for various Indian and International brands Disposable and Cleanable type, Wrapped and Pleated Type.

Threads BSP, NPT, BSW, UNF or Special Threads on demand.

Media Inorganic, metal fibre and mesh, micro glass, glass fibre, chrome nickel fibre, Nylon.

Complete filter Simplex, Duplex, Portable Filtration System, Spin on Canisters

Flow Rating 1 to 20,000 ltr/min.

Filtration Rating (i) 1-5000 micron (ii) Nominal and Absolute

Type Low and High Pressure

Working Pressure (low and high pressure) upto 6000 PSI

Fluid Petroleum based Oils, Non-flammable fluids

Hydraulic Filters, Elements and Valves etc.



Filters for Earthmoving and Construction Machinery

Filters & Spares for heavy earthmoving machinery including industrial & hydraulic earthmoving machinery and construction equipments such as excavators, loaders/unloaders, dumpers, cranes, dozers, mixers, grabs, trailers, road rollers, generators forklifts etc. for different makes such as JCB, Caterpillar, Komatsu, Terex, BEML, Pocklain, Volvo, Samsung, Hitachi, Haulpak, Kirloskar, Cummins, TIL, Godrej, Voltas etc.

We have developed various filters & spares for these, we can also develop new items as per your specification.



Economical solutions for your Filtration & Purification requirements

Specialist in all types of Air, Liquid, Gas Filters and Dryers

Dehumidifiers

Room dehumidifiers are used to control the humidity in covered areas for the tool and production rooms, manufacturing of medicine, ammunition and storage of food grains, sugar, fertilizer etc. If these places are not dehumidified, the moisture in the air will deteriorate the quality of the product. The humidity in the air causes formation of lumps and rusts and thereby making the product unfit for use.

Advance International offers refrigeration based and absorbent based room dehumidifiers in window mounting or table mounting type models with high efficiency and low maintenance cost. The humidity control from 100% RH to 2% RH could be provided as per customer requirements.



Chilling Plants

Advance International supplies chilling plants for water/oil upto -60 Deg.C. Chilled water or oil is used in various industrial processes e.g. chemical industry, mould cooling, milk plants, food industry etc. Chilled water or oil is a source of indirect cooling energy, centralized at one place and circulated to entire plant at various end uses. This saves heavy cost in maintenance and problem of installing refrigeration system individually for each machine in the plant. Advance International Chilling plants are fabricated out of best quality material as per various Indian and international standards. The imported instrumentation is used for reliable operation and system protections. Our heat exchanger for freon to water chilling are designed in combination with freon circuit, blower fan and condenser. Condenser sizing is designed to have better efficiency and saving of energy, which is important factor in industry for any equipment.

Salient Features :

- Compact size due to better designed heat exchanger, condenser with optimum air flow with high speed blower fan.
- Imported expansion valve used instead of capillary tubes in freon for better cooling.
- Low power consumption of the equipment due to highly efficient microprocessor control system.

Best after sales servicing from **Advance International** gives maintenance free long life of equipments.



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SUMMARY PRODUCT CATALOGUE OF COMPRESSED AIR LINE PURIFICATION & REFRIGERATION PRODUCTS

Desiccant Air Dryers (Heatless and Heated Type)

Advance International offers high quality heatless type compressed air dryers. Heatless dryers comprises of prefilter, after filter and adsorber towers. The regeneration is controlled by microprocessor based cyclic programmer. The dew point could be attained from -40° C to -80° C depending on customer requirement. Heatless type system is the most simple, reliable and economic system amongst all other type of dryers where very low dew point upto -80° C is required.

Heatless type air dryers are required in pharmaceutical, powder conveying systems, Pneumatic conveying of hygroscopic materials e.g Plastic raw materials, cement conveying, high quality painting jobs in auto industry and CNC machines etc.

Advance International offers heatless dryers from 2 scfm capacity to 14,000 scfm capacity (at 4 bar to 16 bar working pressure in standard range) with maximum pressure drop of 0.2 bar. High pressure dryers (up to 400 bar) and special dryers for gases like oxygen, nitrogen and hydrogen etc are also available.

Advance International provides spares and servicing for all other makes and types of dryers also.



Refrigerated Air Dryers

When requirement of dew point in compressed air is around -20 to -23° C then best choice of dryer is Refrigerated Air dryer. This system have lowest running cost because there is no purge losses. The system is based on a simple concept of cooling down the air to approximately 2 Deg.C and separating the condensate formed. The system is most efficient and economical to use for most of the applications and is widely accepted in all manufacturing industries.

The coil in coil design combined with well controlled air flow from blower and condenser makes our dryers highly efficient and low on maintenance cost. Imported instrumentation and best available control devices further give trouble free continuous running of our dryers for long time without breakdown, hence saving in repair costs and production losses due to extended life of equipments and machinery.

Advance International is supplying Refrigerated dryers with capacities from 10 cfm to 7500 cfm at 4 bar to 16 bar working pressure in standard range. High pressure dryers up to 40 bar working pressure can also be supplied.

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Works: Indira Complex, Tigon Road, Industrial Area, Greater Faridabad, Haryana

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Specialist in all types of Air, Liquid, Gas Filters and Dryers

Special features of our dryers are

- Dryer is single skid mounted which can be readily hooked to inlet and outlet connections at site-
- Thermostatic valve is provided in place of capillary tube to ensure steady dew point under all load conditions.
- Refrigerated dryers are equipped with liquid gas separator for a smoother running of compressor.
- Optional high efficiency micro filter installed with dryer ensures almost 100% oil separation and enhances the life of the desiccant and equipments.
- Dryers can be supplied upto 55 Deg. C inlet temperature and at 0 to 100% rated capacity.
- Condenser in PHE may be offered.
- Dryers are also available in CFC free eco friendly gas (R-407C) run compressors.



Moisture Separator & Demister pads

Our moisture separators eliminate 99% of entrained contaminants including moisture, pipe scale, dirt and oil to improve the operating efficiency of pneumatic equipment as moisture is in contamination present which causes the most damage. When used on steam service, these provide cleaner, drier steam to heat exchangers, steam turbines and other processing equipment that requires clean dry steam. Our separators are available for different flows, line sizes, pressure, temperature, material, flow rating with an advanced moisture relief system

Our demister pads which are separate mist & entrained liquid from air/gas flow and are made from knitted mesh grids of SS firmly secure the pad. Following are some of the applications:

- Compressed Air •Exchangers •Turbines •Boilers •Evaporators
- Vacuum towers, absorbers •Lube towers •Distillation of flavors and fragrances

Benefits:

High removal efficiency with low pressure drop

M. O. C.:

Housing SS, MS, CI, CS

Element SS, MS, GI, Monel, PP, HDPE, Nylon

Heat Exchangers / Radiator

Heat exchangers are required in various industries. These are used to exchange heat between two mediums (Hot and Cold) e.g. compressed air to water, freon to water, hydraulic oils to water, air to steam, water to steam, air to air etc. Heat exchangers are also used in plastic/bakelite moulding machines, compressed air systems, water chilling, sugar industries etc. Shell and Tube (with and without fins) and Plate Type, these systems are supplied by Advance International fabricated as per various international and Indian standards.



Compressed Air and Gas Line Filters (Oil Removal)

These are ultrafilters, which remove oil and dust particles that are mixed with condensate. If these particles are not removed, it is highly harmful for the machinery and equipments in the plant as it forms amalgam, which is a thick viscous matter and gets struck up in airlines and orifices in the pneumatic system and instrumentation.

Our filters are designed for 10 m³/hr to 50,000 m³/hr capacity and can withstand the pressure upto 16 bar in standard range and 400 bar in high pressure range. Housings are available in Al, CS, SS material.

Major impurities in Compressed Air and Corresponding elements/system offered

- Particulate Contamination** - Atmospheric dust (140 million particles/m³), Worn out compressor Parts, Pipe Scale and Rust.
Element - Sintered Bronze, Sintered Polyethylene, Sintered Stainless Steel elements. (These are of one micron having 100% efficiency and withstand temperature upto 400° C).
- Liquid Contamination** - Moisture in atmospheric air, Compressor oil
Element - Borosilicate glass fibre filter of rating 0.01 micron having efficiency upto 99.9999% can allow the residual oil at outlet 0.003 PPM and withstand upto 180° C.
- Vapour Contamination (oil)** - Acid Fumes, Hydrocarbon Aerosols which are still present in the air.
Element - Activated Carbon Filter
- Natural Contaminations (Bacteria and viruses)**
Removal of these are crucial for pharmaceutical and food industries.
Element - Sterile Reversible flow Borosilicate glass fibre filter of 0.01 micron.
- Vapour Contamination (water)**
Type Air / Gas Dryers

Applications

These filters are essential in all pneumatic and other applications viz Instrumentation, general plants, Painting jobs, Pneumatic valves and cylinders, Pneumatic cleaning of components, Pneumatic tools, Powder coating jobs, Process air, Breathing air filters, Food and packaging industry, Filtration of purification gases like CO₂, Nitrogen, Oxygen, Dental chairs etc.

Air Receivers



These are used for air storage and constant air flow after the compressor to cater to sudden peak air requirement of the plant and keep emergency storage of air during power failures. We manufacture receivers of various capacities upto 10,000 litres. And at working pressure upto 40 bar. Galvanized air receivers can also be provided on request. Radiography and Ultrasonic testing for high pressure vessels can also be undertaken as per requirement.

Our Auto drains are highly recommended with air receivers for proper draining of condensate at regular intervals.

Auto Drains and Energy saving products



Condensate needs to be drained at many places in compressed air lines in the industry. If condensate is not drained frequently at regular intervals it can go into the line and spoil the costly equipments. To avoid manual draining and human error, auto draining system becomes essential. These systems drain out condensate at fixed interval without fail. Thus saving costly machines and equipments from getting damaged.

Advance International offers many types of Auto Drains (imported/Indigenous) as per the requirements of the customers. These auto drains include **mechanical float type, timer operated, motorized ball valve operated, Zero air loss** etc. Various orifice sizes of drains from 2.5 mm to 12 mm are available. We also provide **air leak detectors, condensate cleaners and air savers** etc.

