

PASCO FILTRATION PRODUCT BROCHURE

Process Filtration Systems



Filtration & Separation System Packages

VARIOUS TYPE OF FILTERS & COALESCERS

AUTOMATIC FILTRATION SYSTEM

GAS SEPARATION MEMBRANE PACKAGES

DEHYDRATION& DECOLOURING PACKAGES

PRESSURE VESSELS & HEAT EXCHANGERS

SCR DeNOx SYSTEM

GAS REFRIGERATION PACKAGES

AMINE SWEETENING PACKAGES

VARIOUS PROCESS RECOVERY PACKAGES

Filters and Coalescers for Refinery Processes and Petrochemical Plants

We have various type of filters and coalescers to meet the Process Conditions and Purpose



Cartridge Filters & Bag Filters

- Removal of impurities in the process fluids and utility fluids
- Various type and materials of cartridges and bags for wide retentions 0.1micron~100micron & over
- Type of Filter Media
Reusable media : Sintered Metal Porous Media, Profile Wedged Wire, Woven Screen & etc
Disposable media: Cotton, PP, PE, Nylon, Acetate, Rayon, Glass Fiber, Teflon & etc
- Filter Vessels designed and fabricated in accordance with ASME Code and Local Regulations
- Available materials of filter vessels are Carbon steel, Stainless steel, High alloy, Lined rubber, PP & PTFE



Liquid-Liquid Coalescers

- Immiscible liquids separation for refinery and petrochemical process liquids. (Hydrocarbons/Water)
- Various type of cartridges and reparks
Entrained liquid inlet content : 0.5%~ 3%
Entrained liquid outlet content : 5ppm~ 30ppm
- Type of Coalescer
Vertical single stage/Vertical double stage ,
Horizontal single stage/Horizontal Double stage
- Coalescing media: Glass fiber , PP, PE, Rayon
Excelsior, Stainless steel, Carbon steel, Combination



Gas-Liquid Coalescers & Mist Eliminators

- Liquid droplet removal for refinery and petrochemical process gases.
- Various type of cartridges, vane and reparks
Liquid removal efficiency : 0.1micron 99.95%
Solid removal efficiency : 0.3micron 99.98%
- Type of Coalescer
Vertical single stage/Vertical double stage ,
Horizontal single stage/Horizontal double stage
- Coalescing media: Glass fiber , PP, PE, Rayon
Stainless steel, Carbon steel, Combination



Self Cleaning Filters

- Self cleaning by electric or pneumatic driver
- Mechanical knife, Brush cleaning type and Backwash rotating arm type.
- Solid retention range : 40micron ~ 1mm & over

Strainers

- Bucket type, Tee type, Y type, Cone type
- Welded Piping and Casting body



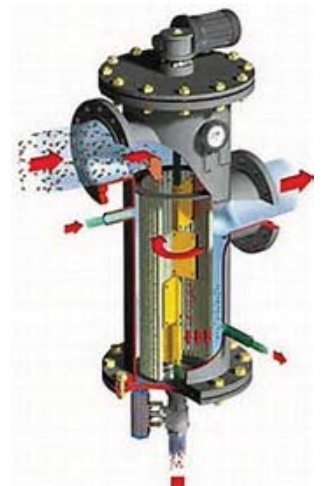
Fabricated Strainers



Simplex Strainers



Duplex Strainer



Automatic Self Cleaning Strainer

AUTOMATIC FILTRATION SYSTEMS

Automatic Filtration System for Refinery Processes and Petrochemical Plants

We have four(4) types of Automatic Filtration Systems to meet the Process Conditions and Purpose



CakeBack™ Filter System Application

- Recovery of precious metal catalysts on carbon (Pt, Pd, Rh, Ru) and Raney nickel after reaction
- Recovery of organic products from industrial waste streams for recycling
- Removal of impurities in the production of ferric chloride
- Various separation steps in the production of titanium dioxide
- Separation of solids (Me-OHx, gypsum, etc) from gas scrubbing plants in power plants & incineration
- Recovery of polymer granulates from waste stream
- Clarification of brines in the chlor-alkali plant



DepthBack™ Filter System Application

- Industrial raw water filtration for refinery
- Steam condensate filtration for petrochemical plant
- Potable water and swimming pool water filtration
- Waste water filtration for recycling
- Type of granular filter media:
Sand, Garnet, Anthracite, Activated Carbon, Birm Organo-Clay, Multi-Media

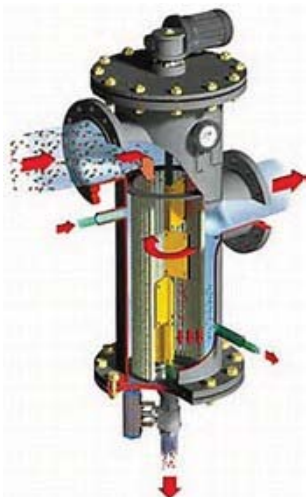


MetalBack™ Filter System Application

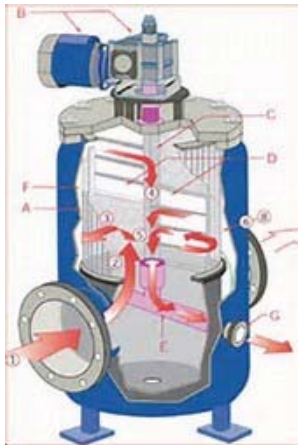
- Slurry oil filtration for RFCC process in refinery
- Guard filtration for FCC reactor in refinery
- Recovery of precious metal catalysts on carbon (Pt, Pd, Rh, Ru) and Raney nickel after reaction
- Removal of contaminants from high temperature fluids
- Type of filter media
Sintered Metal Powder, Sintered Metal Screen
Sintered Metal Fiber, Woven Metal Screen

MultilBack™ Filter System Application

- Vacuum residuum (VRDS) process in refinery
- Atmospheric residuum (ARDS) process in refinery
- Coker Gas Oils (CGO) process in refinery
- Vacuum Gas Oils (VGO) process in refinery
- Removal of contaminants from Diesel
- Removal of contaminants from Naphthas
- Removal of contaminants from Amines
- Type of filter media
Sintered Metal Screen, Wedged Profile Screen, Woven Screen, Woven Fiber



Automatic Self Cleaning Strainer



Automatic Self Cleaning Wedgewire



Automatic Fabricated Duplex Strainers

Membrane Packages for Gas Separation

Gas Separation Membrane Package for Refinery and Petrochemical Plants

Gas Purification & Fuel Gas Conditioning, Emission Control, Product Recovery



Gas Purification : Nitrogen Membrane Generators, Air Drying , High Pressure Air Drying
Hydrogen Recovery and Purification for Refinery

Fuel Gas Conditioning : Natural Gas Dehydration, CO₂ Removal and H₂S Removal

Emission Control: Vapour Recovery for Tank Farms and Refinery
Marine Vapour for Product Loading into Ships and sea going Vessels
Vent Recovery for Emission Control at Petrol Service Stations



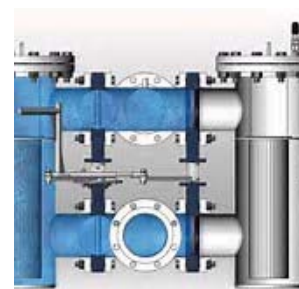
Product Recovery : Valuable Ethylene Recovery from Polyethylene Plant, EO or VAM plant
Valuable Propylene Recovery from Polypropylene Plant
Valuable Hydrocarbon Recovery from Production and Storage



Cone Type Temporary Strainer



Temporarty Strainer in Specialty Alloy's



Duplex Basket Strainer

Pressure Vessels and Heat Exchangers

Dehydration Packages

SCR DeNOx System Packages



Pressure Vessels

- ASME Sec. I or Sec. VIII, NACE MR-0175
- National Board Registration
- Gas Processing Column
- Fractionation Towers, Regeneration Towers
- Pressure Vessels for Amine Treating Units
- Pressure Vessels for Sulphur Recovery Units
- Pressure Vessels for Waste Heat Recovery
- Drums for Gas Compression
- Various Type of Reactors, Columns, Towers and Drums for Refinery & Petrochemical Plants
- ASME Code Stamp and Local Regulations Stamps
- Available materials of Vessels are Carbon steel, Stainless steel, High alloy, Lined rubber, PP & PTFE



Shell & Tube Heat Exchangers

- ASME Sec. I or Sec. VIII, TEMA, NACE MR-0175
- National Board Registration
- TEMA C & R construction
- Fixed and Floating Head Designs
- U tube, Straight tubes or Finned double pipe
- Gas/Gas Exchangers, Gas Chillers
- Fractionation Reboilers, Regeneration Gas Cooler
- Amine Reboilers, Rich/Learn Amine Exchangers
- Lean Coolers, Reflux Condensers
- Sulphur Condensers, Waste Heat Boilers
- Waste Heat Recovery Exchangers
- ASME Code Stamp and Local regulations Stamps
- Available materials of Exchangers are Carbon steel, Stainless steel, High alloy, Overlay



Dehydration & Amine Sweetening Packages

- Gas Dehydration Packages
- Removal of Water, CO₂, H₂S from Gases such as Air, Hydrogen, Oxygen, Nitrogen, Ammonia, Ethylene
- Mixed Hydrocarbon Gases, Natural Gas, Propane
- Removal of Water from Solvents such as Acetone, Toluene, Benzene, Xylene, Methanol
- Ethanol, Trichloroethylene, Isopropanol, Cyclohexane
- Removal of Water, CO₂, H₂S from Liquefied Gases
- Propane, Butane, Naphtha, Ethane, Ethylene



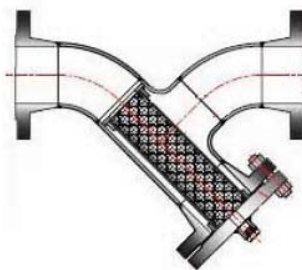
SCR DeNOx System

- Selective Catalytic Reduction (SCR) for De-NO_x
- Technical relation with Hyundai Heavy Industries (HHI) for Marine Engine
- Ceramic Honeycomb Catalyst
- Superior NO_x removal, High thermal stability
- Long life time, Low catalyst consumption
- Simple module design, Self-cleaning nozzle
- Precision automatic injection system
- Flue Gases & Marine Engines



STRAINERS

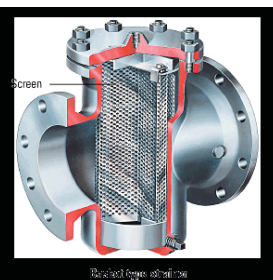
Fabrication



Y Strainer



Lined Strainer



Basket Strainer

Gas Refrigeration Packages



Main Compressor Skid



Condenser Skid



Liquid Cooler Skid



Oil Cooler Skid



Pump & Filter Skid



Receiver Skid



Knock Out Drum



Duplex Bag Filtration



Bag Filters



Metal /Mesh Filters

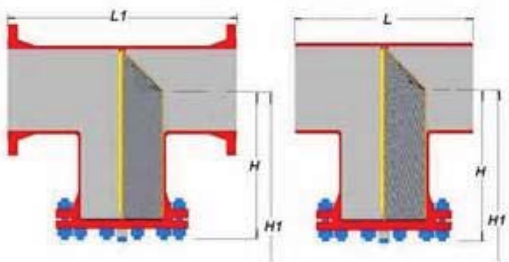


Cartridge Pleated

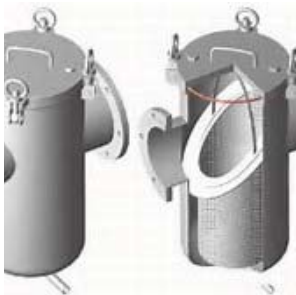
Amine Treating Packages



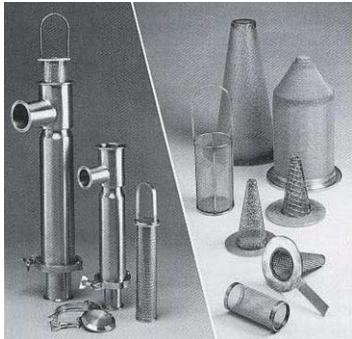
Fully Automatic Amine Treating Package



Tee Type Strainer



L Type Strainer



Sanitary Strainer

Various Process Recovery Packages



Natural Gas Liquid Recovery Package



Waste Heat Refrigeration Package



Carbon Absorption Package for VOC



Desalination Package for Brine



Nitrogen Rejection PSA for Natural Gas



Carbon Dioxide Removal Package for Natural Gas

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