



FENIX™

Mass Transfer Technology

Distillation

Absorption

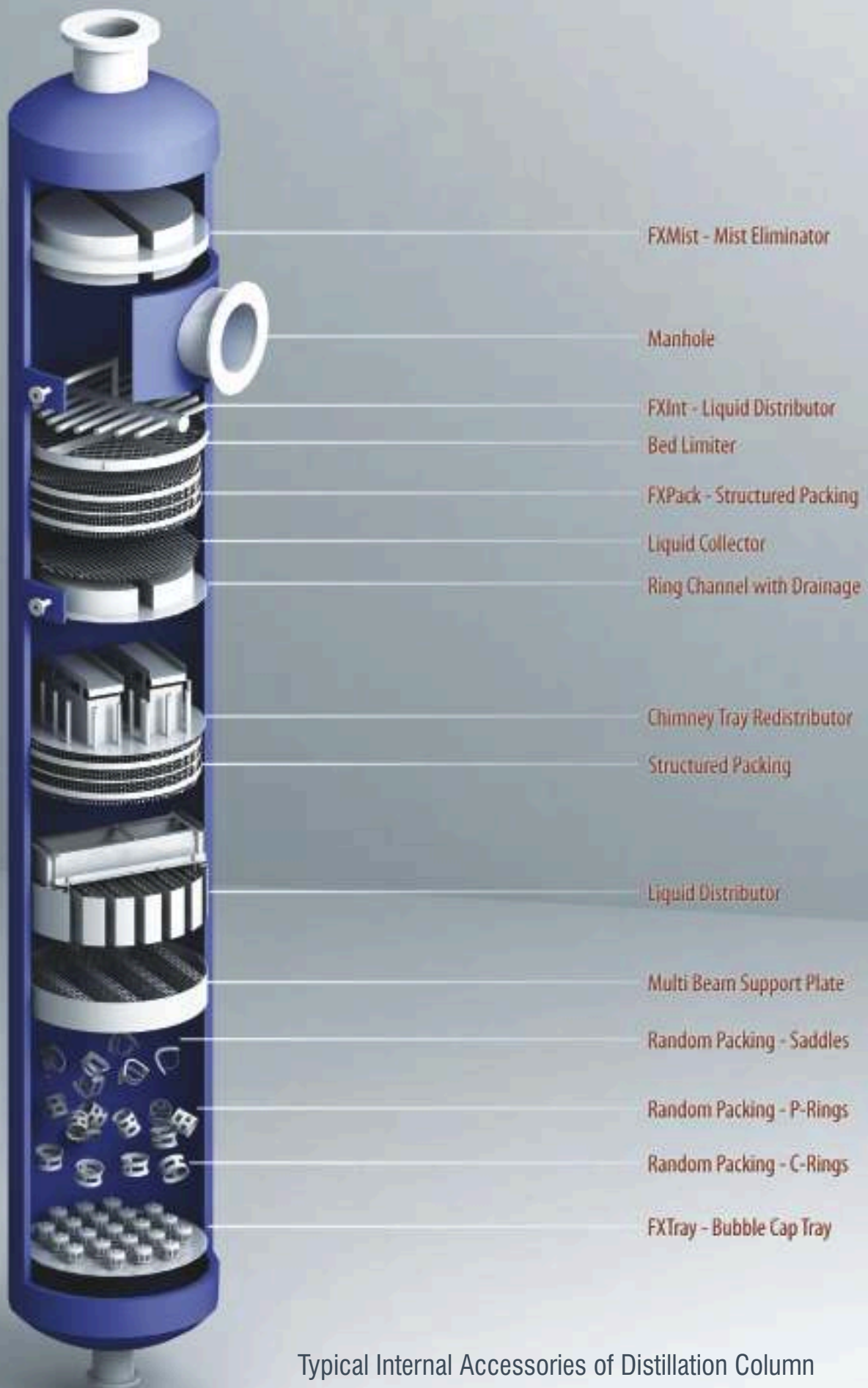
Rectification

Extraction

Reactive Distillation

**Your Partner
For Complete Mass Transfer Solutions.**





Typical Internal Accessories of Distillation Column

Columns / Towers
Distillation, Stripping, Rectification,
Absorption, Extraction & Reactive Distillation.

OFFERING YOU THE COMPLETE FXRANGE OF MASS TRANSFER & SEPARATION

Fenix™ Process Technologies is a Mass Transfer Equipment manufacturing company with an integrated engineering solution. This enables us to provide high efficiency process design & detailed mechanical design.

Our vertical centric solution approach makes us a trusted partner for all our client needs. Headquartered in Pune and headed by an efficient team with over three decade of cumulative experience in the process design & manufacturing industry, Fenix is poised to lead its industry segment.

Fenix has a state-of-the-art manufacturing plant with an area of 10,000 sq.ft. and an able set of resource for the process and mechanical design capabilities.



The below table represents our process engineering capabilities.

Domain	Sub Domain
Chemical Industry	<ul style="list-style-type: none"> • Solvent Recovery • Separation/Purification of Chemicals • Absorption • Extraction • Reactive Distillation
Food Technology	<ul style="list-style-type: none"> • Vegetable Oil Refining
Pharmaceutical Industry	<ul style="list-style-type: none"> • Solvent Recovery • Absorption • Extraction
Alcohol Technology	<ul style="list-style-type: none"> • Fuel Ethanol
Ethanol Derivatives	<ul style="list-style-type: none"> • Acetaldehyde • Glacial Acetic Acid • Ethyl Acetate
Aromatic	<ul style="list-style-type: none"> • High Vacuum Distillation of Perfumery Products
Bio-diesel	<ul style="list-style-type: none"> • Methanol Recovery • Glycerol Recovery
Dyes & Intermediates	<ul style="list-style-type: none"> • Distillation/Purification of Intermediates • Solvent Recovery
Oil & Gas	<ul style="list-style-type: none"> • Crude Distillation • Vacuum Distillation • Cleaning of Crude Oil

Content

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Structured Packings, made from thin-gauge sheets or woven wire mesh to give a regular pre-formed shape, provide high surface area with high void fraction to promote efficient vapour-liquid contacting in mass transfer operations. Surface enhancement techniques are incorporated to promote liquid spreading over the packing and avoid channelling. To achieve a predetermined level of separation efficiency, Fenix FXPack™-SP structured packings require much less height of column with lower pressure drop compared to random packings or trays.

Structured Packings



Structured Packing from Sheet Metal

FXPack 60.0L/M
 FXPack 1.25L/M
 FXPack 1.70L/M
 FXPack 2.5L/M
 FXPack 3.5L/M
 FXPack 5.0L
 FXPack 7.5L

MOC : Stainless steels, 904L, 254SMO, Duplex, SS410S, Titanium, Hastelloy, etc.
 Sizes : 50 mm to 8.0 m diameter.
 Application : Standard application, Moderate vacuum to high pressure, Low to high liquid loading.
 F-factor : 1.2 to 3.5
 Surface area : 60 to 1000 m²/m³
 NTSM : 1.0 to 4.5



Structured Packing from Wiremesh

FXPack WM5.0M
 FXPack WM7.5L

MOC : Stainless steels, Carbon steel, Phosphor bronze, or any metal/alloy according to customer request.
 Sizes : 25 mm to 3.0 m diameter
 Application : High vacuum to low pressure. Good for where low pressure drop required.
 High no. of stages per meter. Highly efficient even at low liquid loading.
 F-factor : 1.5 to 2.2
 Surface area : 500 to 750 m²/m³



High Capacity Structured Packing from Sheet Metal

FXPack SUPER* 250
 FXPack SUPER 450
 FXPack SUPER 750
 FXPack SUPER 1000
 FXPack SUPER WM 500
 FXPack SUPER WM 750

MOC : Stainless steels, 904L, 254SMO, Monel, Hastelloy, or any metal/alloy according to customer request.
 Sizes : Up to 8.0 m diameter
 Application : High liquid loading, High vapour loading, Useful for heat-sensitive systems.
 Very low pressure drop
 F-factor : 2.2 to 3.0
 Specific surface area : 250-1000 m²/m³
 NTSM : 2.2 to 5.0



Packing for Liquid-Liquid Extraction

FXExtract 2.0
 FXExtract 2.5
 FXExtract 3.0

This is a specially designed packing combination made from sheet metal for liquid-liquid extraction.
 MOC : Stainless steels, Carbon steel, or any metal/alloy according to customer request.
 Available upto 3 m diameter.



Structured Grid Packing

FXGrid 45L
FXGrid 60L/M
FXGrid 90L/M

MOC : Stainless steels, SS410S, Duplex, Monel, Hastelloy, Carbon steel, or according to customer request.

Application : Fouling systems, corrosive environment, where frequent cleaning or replacement needed.

Sheet Thickness : 1.0 - 2.0 mm



Laboratory Packing (Wiremesh)

FXLab-EM
FXLab-DM
FXLab-DMPlus

Standard MOC : SS, others on request.
Suitable for heat-sensitive systems.

NTSM : 20 - 40

Pressure drop low, 0.1 to 0.4 mbar/stage.

Suits low liquid load 0.05 m³/m²h.

Can be used for high vacuum to 2 mbar.

Can be scaled up easily.

Diameter : 25 - 100 mm



Reactive Distillation Packing

FXReact SM
FXReact WM

MOC : According to customer request.

High separation efficiency.

Reaction capacity/rate can be high.

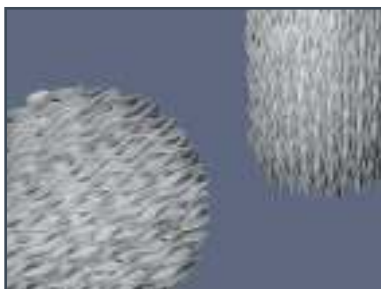
Flexible design of catalyst element.

Can be used in laboratory columns.

Diameter : 50 - 500 mm

Surface area : 150 to 450 m² / m³

NTSM : 1.0 to 3.0



FXPack PTFE

Sizes : 100 mm to 300mm

Application : Corrosive systems

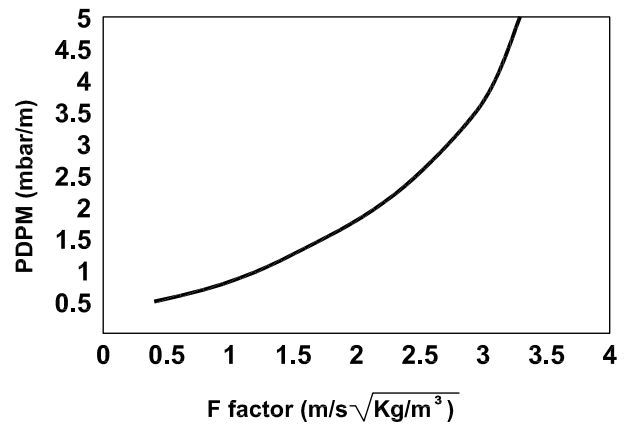
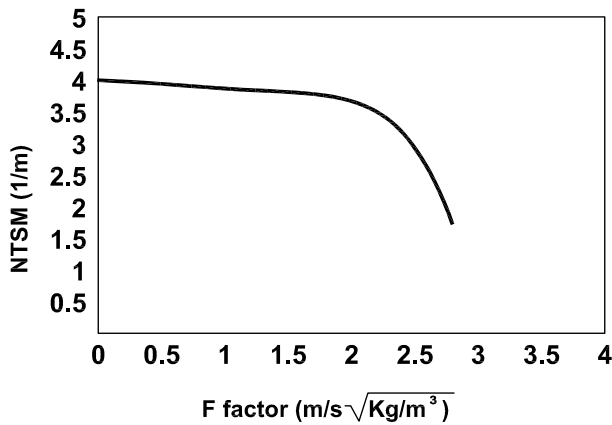
Temperature : Up to 150° C



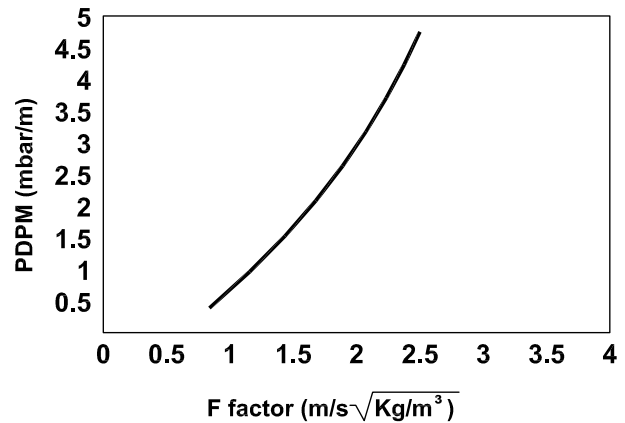
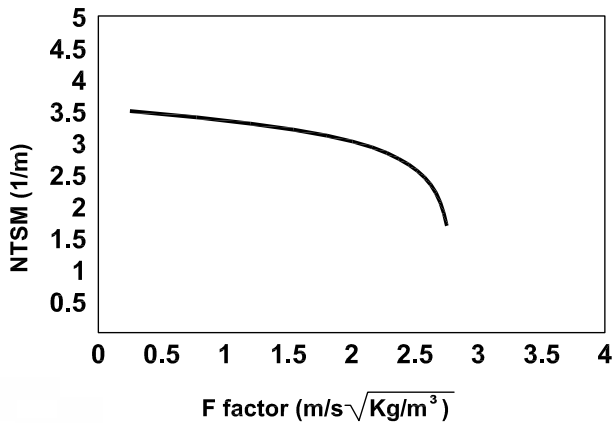
Typical Performance Characteristics

Performance characteristic curves for three models of Fenix Structured Packing are given underneath. The values plotted in the graphs are mean values and were obtained by using standard/ideal test mixtures. Production plant data/results may vary marginally from system to system.

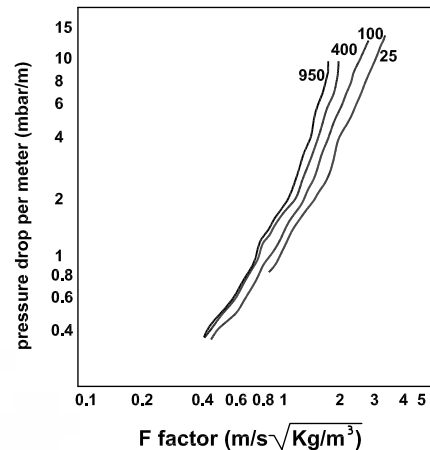
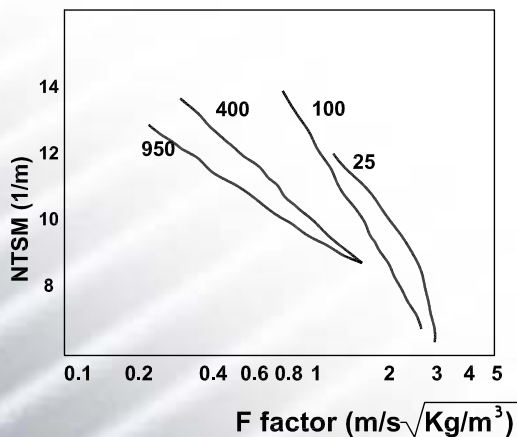
Performance Curves of FXPack 3.5L



Performance Curves of FXPack 5.0M



Performance Curves of FXPack WM 7.5L



NTSM : Number of theoretical stages per meter packing height [m⁻¹]

F-factor : A measure of vapour throughput [m/s√Kg/m³]

Distillation Trays



FXTray-1

Sieve Tray

Stainless steels, 904L, 254SMO, Duplex, SS410S, Titanium, Hastelloy or any metal/alloy according to customer request
Up to 8.0 m diameter.

Low cost. Not flexible for wide range of turndown ratio.



FXTray-2

Fixed Valve Tray

Stainless steels, 904L, 254SMO, Duplex, SS410S, Titanium, Hastelloy or any metal/alloy according to customer request.
Up to 8.0 m diameter.

Wider turndown ratio and better resistance to fouling compared to FXTray-1.



FXTray-3

Floating Valve Tray

Stainless steels, 904L, 254SMO, Duplex, SS410S, Titanium, Hastelloy or any metal/alloy according to customer request.
Up to 8.0 m diameter.

Tray open area automatically changes according to vapor flow rate. Most versatile – can be used for almost all services. Widest turndown ratio. Available in two modules : rotating and non-rotating.



FXTray-4

Bubble Cap Tray

Stainless steels, 904L, 254SMO, Duplex, SS410S, Titanium, Hastelloy or any metal/alloy according to customer request.
Bubble Caps : 10-100 mm diameter

Used for low liquid loads. Very wide turndown ratio.



FXTray-5

Cartridge Tray

Stainless steels, 904L, 254SMO, Duplex, SS410S, Titanium, Hastelloy or any metal/alloy according to customer request.

Normally supplied in small sizes up to 1.0 m diameter.

Highly suitable for fouling and foaming applications. and for systems which require frequent maintenance or replacement. Wide turndown ratio.

To enable mass transfer to take place, liquid and vapour/gas must be contacted intimately in the equipment. Random packings, small objects of regular shape and size made from metals, polymers, ceramics or glass, is one such device. Random packings are just dumped into the column. Fenix FXPack™-RP random packings offer the advantage of lower pressure drop across the column (when compared to plates or trays), which is beneficial while operating under vacuum.

Random Packings - Metals

Material of Construction: Stainless Steel or any metal/alloy according to customer request.



Cylindrical Rings

FXPack RR10
FXPack RR15
FXPack RR19
FXPack RR25
FXPack RR38
FXPack RR50
FXPack RR70
FXPack RR80

Bulk density : 200-900 kg/m³
Surface area : 90-600 m²/m³
NTSM : 1.5-1.8
High mechanical strength.
Thickness : 0.3mm - 1.0mm



Fenix P-Rings

FXPack P10
FXPack P15
FXPack P19
FXPack P25
FXPack P38
FXPack P50
FXPack P75

Bulk density : 220-350 kg/m³
Surface area : 120-500 m²/m³
NTSM : 1.8-2.2
Thickness : 0.3mm - 0.6mm



C-Rings

FXPack C1.0
FXPack C1.5
FXPack C2.0
FXPack C2.5
FXPack C3.0
FXPack C4.0
FXPack C5.0

Bulk density : 150-250 kg/m³
Surface area : 110-220 m²/m³
NTSM : 2.2-2.5
Thickness : 0.3mm - 0.8mm
Low pressure drop, Suits vacuum systems
Good liquid distribution, High throughput, Low liquid hold-up.



Saddle Rings

FXPack S15
FXPack S25
FXPack S40
FXPack S50
FXPack S60
FXPack S70

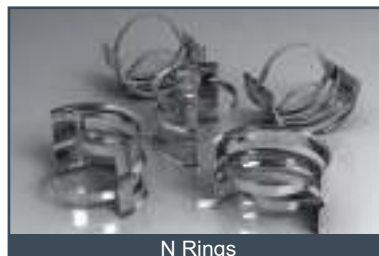
Bulk density : 120-330 kg/m³
Surface area : 60-280 m²/m³
NTSM : 2.2-2.5
Thickness : 0.3mm - 0.8mm
Very low pressure drop, Suits high vacuum application.
Very low liquid hold-up.



HP Rings

FXPack HPR30
FXPack HPR45
FXPack HPR60
FXPack HPR90

Bulk density : 190-280 kg/m³
Surface area : 90-270 m²/m³
NTSM : 1.8-2.2
Thickness : 0.3mm - 0.6mm
High capacity, lower pressure drop, high mechanical strength than P-Rings.



N Rings

FXPack NR15
FXPack NR25
FXPack NR30
FXPack NR50

Bulk density : 130-180 kg/m³
NTSM : 1.2-2.5
Very low pressure drop, Suits high vacuum application.
Very low liquid hold-up.

Random Packings - Plastics



P-Rings

FXPack PPR15
 FXPack PPR25
 FXPack PPR50
 FXPack PPR80

MOC : PP, PVDF
 Bulk density : 55-110 kg/m³
 Surface area : 100-350 m²/m³
 NTSM : 1.8-2.5



Saddle Rings

FXPack PSR15
 FXPack PSR50
 FXPack PSR75

Bulk density : 45-75 kg/m³
 Surface area : 85-230 m²/m³
 NTSM : 2.0-2.5

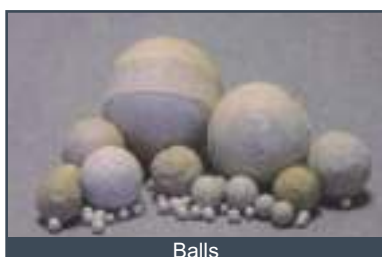
Random Packings - Ceramics



Saddle Rings

FXPack CSR13
 FXPack CSR25
 FXPack CSR38
 FXPack CSR50
 FXPack CSR75

Bulk density : 590-720 kg/m³
 Surface area : 100-522 m²/m³
 NTSM : 1.8-2.6



Balls

FXPack CB06
 FXPack CB13
 FXPack CB19
 FXPack CB25
 FXPack CB38
 FXPack CB50

Bulk density : 1300-1400 kg/m³
 Surface area : 65-420 m²/m³
 NTSM : 0.8-1.5



P-Rings

FXPack CPR25
 FXPack CPR38
 FXPack CPR50
 FXPack CPR75
 FXPack CPR100

Bulk density : 500-650 kg/m³
 Surface area : 55-220 m²/m³
 NTSM : 1.4-1.8



Cylindrical Rings

FXPack CRR13
 FXPack CRR19
 FXPack CRR25
 FXPack CRR38
 FXPack CRR50
 FXPack CRR75
 FXPack CRR100

Bulk density : 500-840 kg/m³
 Surface area : 44-350 m²/m³
 NTSM : 1.4-1.7

Packings, whether random or structured, serve the basic purpose of providing intimate contact between liquid and vapour/gas in mass transfer operations. But for effective and efficient performance of packings some more peripherals (i.e. internals) are needed for (i) packings to rest on a support, (ii) initial even distribution of liquid feed over packed bed, (iii) intermediate distribution to prevent channeling over certain height of packed bed, (iv) collecting liquid to feed it to distributor, (v) preventing expansion or sweeping away of packed bed due to pressure fluctuation or high flow (vi) efficient feeding arrangement for both liquid and vapour/gas and (vii) prevent any liquid mist to enter the condenser. Fenix has been designing, manufacturing and supplying efficient and economic internals to its customers.

FXInt LD & RD - Liquid Distributors & Redistributors



FXInt LD-1

Splash Plate Type Distributors

A large channel provided above the distributor facilitates accurate control of the liquid flow rate. Due to large openings in the construction, it does not have tendency of plugging or choking.



FXInt LD-2
FXInt RD-2

Channel Type Distributors & Redistributors with bottom holes

Conveniently provides liquid sealing and distributor leveling. Intermediate liquid loading. Turndown upto 2:1

This can also be used as a liquid redistributor.

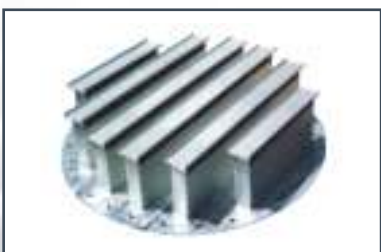


FXInt LD-3
FXInt RD-3

Channel Type Distributors & Redistributors with tubes

Large variation in liquid loading is well taken care of in this type of distributor. Supplied in both segmented form and as one piece. Channel Type Distributors without tubes can also be manufactured.

This can also be used as a liquid redistributor.



FXInt LD-4
FXInt RD-4

Chimney Tray Collector-Distributors

For applications with very high liquid loads, when both collection and distribution of the liquid are needed, this collector-distributor is highly suitable.



FXInt LD-5

L-L Extraction Distributors

Used in packed L-L Extraction columns for continuous and dispersed phase preventing emulsions at low surface tensions.



FXInt LD-6

Antenna Type Distributors

These distributors have very small distribution holes and are used usually for low liquid loads. Solid impurities are not tolerated.



FXInt LD-7

Feed Pipe Distributors

Better for batch columns where liquid holdup is minimum. i.e. $< 5\text{m}^3/\text{m}^2\text{h}$



FXInt LD-8
FXInt RD-8

Pan Type Distributor & Redistributors

Liquid loading : 0.5 to $250\text{m}^3/\text{m}^2\text{h}$
Size : 200mm to 8.0m

This can also be used as a liquid redistributor.



FXInt LD-9

Spray Nozzle Type Distributor

Liquid loading : 2 to $200\text{m}^3/\text{m}^2\text{h}$
Size : upto 8.0m



FXInt LD-10
FXInt RD-10

Deck Type Distributor & Redistributors

Liquid loading : 5 to $220\text{m}^3/\text{m}^2\text{h}$
Size : upto 8.0m

This can also be used as a liquid redistributor.



FXInt LD-11
FXInt RD-11

Trough Type Distributor & Redistributors

Liquid loading : 0.3 to $50\text{m}^3/\text{m}^2\text{h}$
Size : upto 3.0m

This can also be used as a liquid redistributor.

FXInt LC - Liquid Collectors



FXInt LC-1

Vane Type Collectors

Also known as “ring type collectors”, these collectors have very low pressure drop – almost negligible.



FXInt LC-2

Collectors With Support Grid

This is a combination of packing support grid and vane type collector.



FXInt LC-3

Flanged Type Collectors

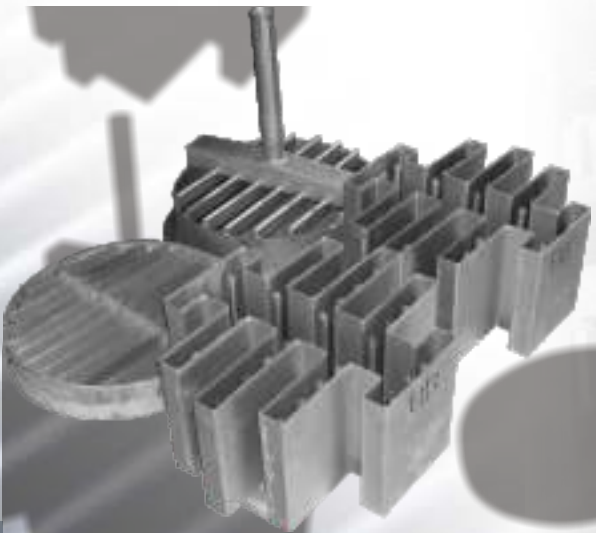
This is suitable for comparatively smaller diameter columns where manholes are not practicable and the column sections are flanged in construction.



FXInt LC-4

Chimney Tray Type Collectors

Normally used for large diameter columns with high liquid throughput, available in both welded and bolted structure.



FXInt LFS - Liquid Feed Systems



FXInt LFS-1A

This “L” type of feed inlet is most suitable for comparatively smaller diameter columns with feed liquid at bubble point or lower temperatures.



FXInt LFS-2

This type is used for feeding process liquids containing gases.



FXInt LFS-1B

Comparatively larger diameter columns perform well with this “T” type of feed inlet for feeding liquid at bubble point or lower temperatures.



FXInt LFS-3

This type is used for feeding superheated liquid.

FXInt GFS - Gas Feed Systems



FXInt GFS-1

Plain Inlet



FXInt GFS-2

Pipe Inlet



FXInt GFS-3

Impingement Inlet



FXInt GFS-4

Tangential Inlet

GFS-3 and GFS-4 are used in cases where the gas velocity is high, ensuring reduction of kinetic energy content of incoming gas thus improving the gas distribution.

FXInt PS - Packing Supports



FXInt PS-1

Support grid used for structured packings.

Very strong construction is not needed for support plates to be used with structured packing as the weight per unit cross section area of a bed of structured packing is not very high.



FXInt PS-2

Multi beam support used for random packings.

For random packings which are dumped on the support plate, the weight per unit cross section area is high. Therefore comparatively stronger construction is required for the support plate.



FXInt PS-3

For large columns.

For large diameter and heavy duty distillation columns, the static weight of packed bed combined with the liquid column is quite high. Strong construction of packing support is therefore necessary.

FXInt BL - Bed Limiters



FXInt BL-1

Bed Limiters are installed directly above a packed bed in a distillation column to prevent any movement or shifting of packing elements under turbulent conditions of liquid or vapour flow. These are fabricated as segmented and bolted for large diameter columns but in one piece for small columns.



FXInt BL-2



FXInt ME - Mist Eliminators



FXInt ME-1

Knitted Mesh Type

Low cost. High efficiency. Upto 3-5 micron size particles can be removed. Almost complete removal of droplets for turndown ratio of 3:1.

Mostly used for vertical gas flow.



FXInt ME-2

High Efficiency Mesh Type

Denser weaving and thinner wire used compared to FXInt ME-1 for more demanding applications.

Mostly used for vertical gas flow.



FXInt ME-3

Standard Vane Type

Low pressure drop. Normally used for larger droplets. Fouling systems can be handled.

Used for both vertical and horizontal gas flow.



FXInt ME-4

Pocketed Vane Type

Low pressure drop. Well-suited for applications with high gas/vapour velocity. Fouling systems can be handled.

Especially designed for horizontal gas flow.



FXInt ME-5

Chevron Type Mist Eliminator

These mist eliminators are generally not efficient for mist droplets smaller than about 20 microns, but they are sturdier than mesh pads and impose much less pressure drop.

Separation Internals for Oil & Gas Industry



Vane Pack Module



Vane Inlet Device



Chevron Type
Mist Eliminator



Double Skin
Perforated Baffle



Sand Jet Assembly



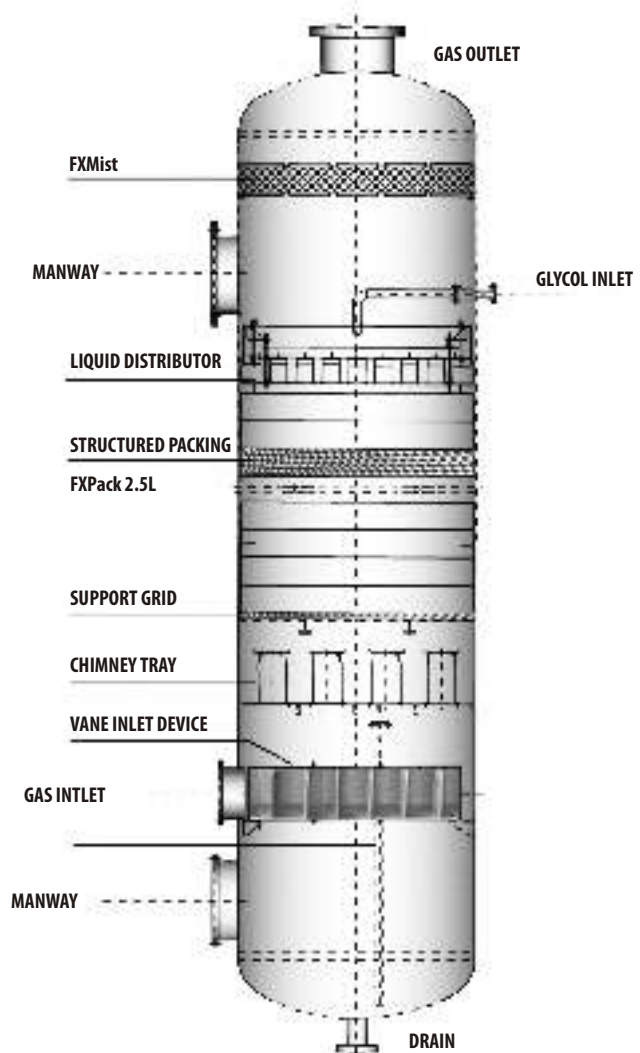
Plate Pack



TEG Contactor for Moisture-Free Gas

Gas fields and oil fields are usually located far away from gas processing and petrochemical production facilities. Crude gas, extracted from a depth below the surface of the earth is not fit for transportation as it contains moisture along with acid gases like H_2S and CO_2 which severely corrode the gas transportation system. Therefore a dehydration facility is provided in the vicinity. Fenix has the requisite design strength to model and design Triethylene Glycol dehydration systems for gas with stringent process guarantees.

Saturated gas is fed to the first column where lean Triethylene Glycol removes moisture to bring it to 10 ppm level using packed bed counter current operation. The column works as an absorber and Fenix structured packing FXPack™-SP is used for efficient moisture removal. The exit TEG which is rich in moisture content is regenerated using two columns - Stripper and Regenerator. In the stripper, moisture is removed from TEG by heating, usually employing a reboiler. The moisture in TEG is further removed in the regenerator by recycling a small quantity of dry gas obtained from the first column.



Amine Contactors for Sweetening Sour Gas



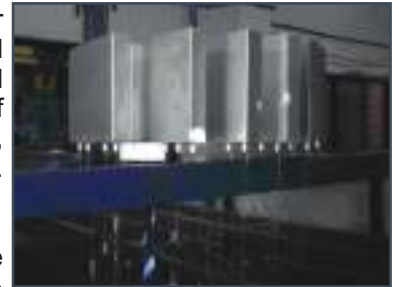
Amine contactor is the process equipment to remove acidic gases like H_2S and CO_2 from sour gas to make it "sweet" i.e. fit for all downstream processing. Usually n-methyl diethanolamine (MDEA) is used as the sweetening agent.

Fenix has the requisite strength to model and design high-efficiency Amine Contactors. The sour gas stream enters the bottom of the amine contactor while pre-cooled lean amine is fed from the top for countercurrent extraction of acid gases. Sweet gas comes out from the top of the column. The acid-rich amine solution leaving the bottom of the column is hot due to exothermic sweetening reactions and is led to surge drum where desorption of hydrocarbon from the amine solution takes place leaving behind acid-containing amine. H_2S and CO_2 are stripped off from the amine solution in the Amine Regenerator and the amine so obtained is recycled back to amine contactor after cooling.

For Amine contactors, the design basis is the specified ppm level concentration of amine in the exit gas.

Liquid Distributor Testing

Fenix has a state-of-the-art testing facility for performance of liquid distributors for standardizing design and manufacture of liquid Distributors. This ensures that any Liquid Distributor designed and manufactured by Fenix performs consistently, efficiently and economically during operation. Statistical technique is applied to quantify the quality of liquid distribution and its effect on the performance of the packing to be used. In this test rig, performance parameters are verified before the liquid distributor is delivered and installed. Designed duty is confirmed by a flow test with water.



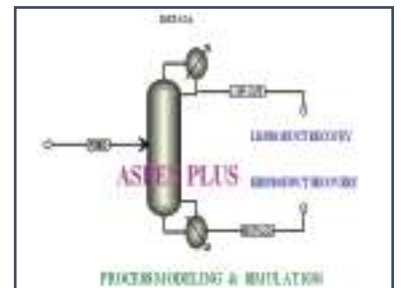
This facility is capable of testing Liquid Distributors up to 4 meter diameter and can be operated with liquid loads upto 270 m³/h. All liquid distributors manufactured by us are subjected to test with water in this facility for ascertaining quality and performance. This water test is free of additional costs.

Process Modeling & Simulation

One of the most sophisticated process simulation software Aspen Plus is available at our disposal which enables us to predict the behavior of a process being designed.

Given reliable thermodynamic data and realistic operating conditions, we can simulate chemical process systems including distillation columns and compare the various alternative designs with actual plant behavior. Thus better new plants are designed and existing plants are made more efficient.

Efficient and economic capacity and column diameter with different types of structured packings, random packings and trays for given feed compositions are determined by simulation with Aspen Plus using its data bank and models.



Process & Equipment Design

We have modern facility, capable management, well trained engineers and skillful technicians to carry out the complete process and equipment design for our valued clients.

- Process Simulation using ASPEN
- Process Design of Heat Exchangers
- Column Hydraulics
- GA Drawing
- Mechanical Design of all Equipments
- Equipment Drawing
- P&I Diagram
- Plant Layouts

Softwares at our disposal :

'AspenPlus' (version 2006 Aspen 7.1)

'Designer's Desktop' (mechanical design of equipments)

'TZValve' (version 5.0)

'PCOL' (version 1.1)

And various internally developed programs/softwares for in-house use.

Revamping/Retrofitting of Existing Columns



Erection, Commissioning & Troubleshooting



The FXRange of Mass Transfer & Separation Internals from Fenix Process Technologies

FXPack™



Structured Packing



Wire Mesh Packing



P Rings



C Rings



Saddle Rings

FXInt™



Trough Distributor



Chimney Tray Distributor



Pan Type Distributor



Feed Pipe Distributor



Support Grid

FXMix™



Static Mixer



Jacketed Mixer



Teflon Element



Housing with Elements



Shear Mixer

FXTray™



Distillation Trays



Bubble Caps



Tray Panel



Bubble Cap Tray



Cartridge Tray

FXIntSep™



Vane Pack Module



Sand Jet Assembly



Perforated Baffle



TEG Contactor



Vane Inlet Device

FXPRO™



Pusher Centrifuge



Heat Exchanger



SS Distillation Column



FENIX™

www.fenix.in

Total Solution from Fenix

Process Technology

Feasibility Study
Conceptual Design
Process Simulation
Testing (Laboratory / Pilot Plant)
Design Manual
Process Guarantee

Control Systems

Instrumentation Diagram
Control Specifications

Project Management

Project Engineering
Equipment Fabrication
Erection & Commissioning
Operators Training

After Sales Service

Troubleshooting
Spare Parts
Revamping of Non-Fenix Plants

Fenix Engineering Services

for Distillation, Extraction, Stripping and Absorption

- ◆ Feasibility Study
- ◆ Process Simulation & Process Design
- ◆ Lab & Pilot Plant Facilities
- ◆ Basic Engineering Package BEP
- ◆ Detail Engineering of Key Equipments
- ◆ Startup & Commissioning Assistance
- ◆ Inhouse Analytical & Data Analysis
- ◆ Data Analysis for Plant Operations



Distillation Setup



Analytical Setup



Extraction Setup

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