



# PACE ENGINEERING INDUSTRIES PVT. LTD.

STRUCTURED COLUMN PACKINGS Wx5 & WY7  
Wire Mesh Type - High Efficiency and Low HETP



PACE STRUCTURED COLUMN PACKINGS TO REVOLUTIONIZE THE DISTILLATION

## APPLICATIONS

Essential Oils & Perfumery  
Pharmaceutical Intermediates  
Amines & Glycols  
Heavy Water Distillations  
Nitro Chloro Benzenes  
Close Boiling Isomers  
Fatty Acids & Alcohol  
Dyestuff Intermediates  
Speciality Chemicals

## CONSTRUCTIONAL ADVANTAGES

Its constructional structure itself makes its features unique

- Its twilled weave pattern wire mesh having combination of critical wire diameter and spacing maximizes the capillary action for the system
- The typical perforations on the wire mesh encourage the mass and heat transfer by intruding laminar flow
- Its typical corrugation angles encourage mass and heat transfer by vapor turbulence
- Its 90° alternation of crimping helps in even distribution of flow across the column
- Its outer strip of wire mesh has collars, projecting out all around to snug fit packing inside the column

## OPERATIONAL ADVANTAGES

( The main advantages of Pace WX5 & WY7 Packing compared to conventional dumped (random) packings / tray columns

- HETP is independent of Column diameter
- Higher vapor flow rate with smaller diameter column
- Higher NTSM reduces column height
- Reduce costs due to reduction in column diameter and height

## REVAMPING WITH EXISTING COLUMN

The prominent benefits of repacking the existing column with Pace WX5 or WY7 Packing in place of Dumped (Random) Packings / Trays

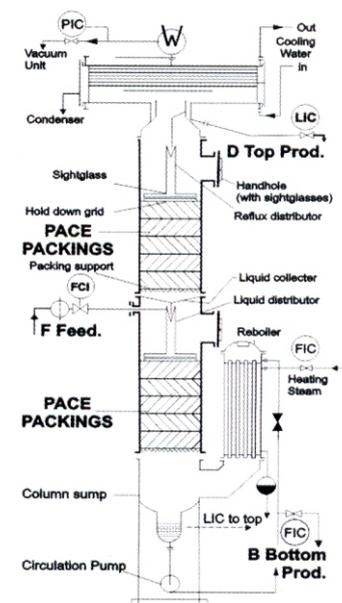
- Higher Purity of top & bottom product as the numbers of theoretical plates have increased for the same height of column
- For identical top & bottom purity that of previous column, the lower reflux ratio feasible and hence lower energy cost thus saving of fuel and electricity
- In batch distillation quicker completion of batch and eventually enhancement in production



PACKING Wx5



PACKING Wy7



DISTILLATION COLUMN

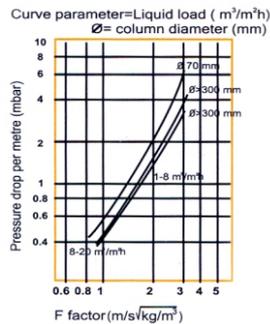
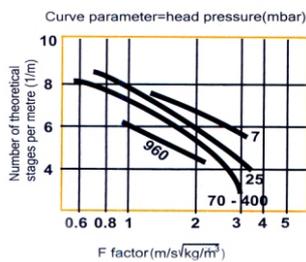


A typical case of Pace WX5 & WY7 Packing in comparison with Pall Ring is:

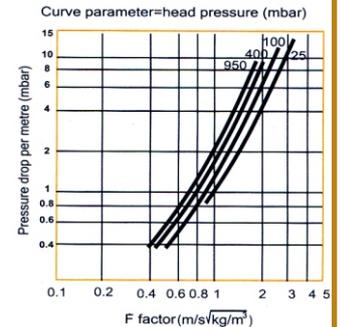
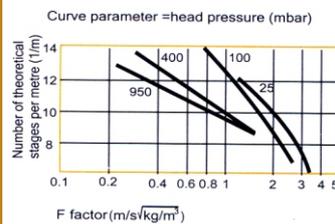
	Pace Wx5	Pace WY7	Pall Ring
Contact Surface Area (m <sup>2</sup> / m <sup>3</sup> )	500	700	100
F Factor (kg <sup>1/2</sup> / sec. M <sup>1/2</sup> )	2.0 - 2.5	1.5 - 2.5	2.0 - 4.0
NTSM (Number of Theoretical stages per meter)	5	8	1.2
PDTs (Pressure Drop pe theoretical stages, mm Hg)	0.27	0.4	1.7

Materials: Stainless Steel, other metals and alloys.

### PACKING-WX5

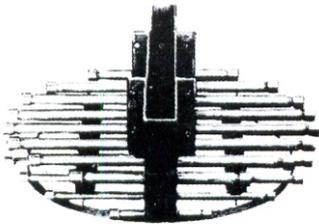


### PACKING-WY7



## COLUMN INTERNALS

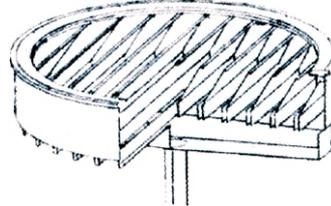
We can extend assistance in designing the Column with Internals viz. Condenser, Reboiler, Kettle, Distributor, Bed Support, Bed Limiter, etc. for your particular application.



DISTRIBUTOR



SUPPORT PLATE



COLLECTOR



COLLECTOR

## PROFILE

- Launched to manufacture specialized wire products in the year 1985
- Our product range also includes Screens-Mesh, Conveyor Belts, Mist Eliminators-Coalescers, Compressed Knitted Wire Mesh / Products
- We offer emergency rush deliveries at reasonable prices
- Our esteemed clients include a large number of leading industries and E&C companies
- We believe in constant updating of knowledge and training
- We have broad experience in handling innovative designs and engineering
- We have machinery-equipment and skills to offer international specifications
- Reputed inspection agencies and engineering consultants have approved our shop
- We have customer oriented long term approach with emphasis on superior service and quality

