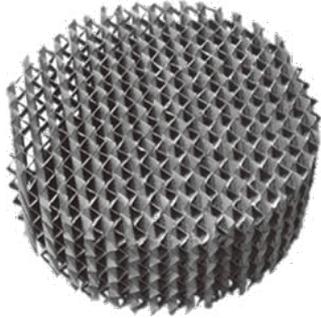


## Metal structured packing (Ms-Pak)

### Packed columns



#### Applications

- » Glycol upgrading
- » Biodiesel application
- » Methane upgrading
- » NH<sub>3</sub> applications
- » CO<sub>2</sub> separation

#### Benefits

- ✓ Low pressure drops
- ✓ Higher capacities
- ✓ Higher efficiencies
- ✓ Reduced liquid hold-up
- ✓ Lower energy consumption

MTE supplies a complete range of structured packing. Structured packing offers a high separation efficiency in combination with a low pressure drop and is used in the field of distillation, absorption and liquid-liquid extraction.

The standard corrugated metal sheet structured packing has a special surface structure and together with its regular arrangement it gives very reliable and excellent characteristics. Wire mesh structured is particularly used in vacuum columns and for very low liquid loads. It has a very low pressure drop per theoretical stage which is created by the capillary effect of the wire mesh.

Structured packing is made from different types of material and thicknesses and standard available in most common stainless steels like 410S, 304, 316L, 316Ti and 904L. Also, other materials are available like Hastelloy, aluminium, copper, titanium, Monel, etc.

The efficiency of the structured packing depends on the angle of inclination and the surface of the packing. The higher the surface area, the higher the separation efficiency. With all types of structured packing, MTE is able to determine the right type of packing for your application depending on the required capacity and efficiency.

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Overview of standard packing types

Surface area [m <sup>2</sup> /m <sup>3</sup> ]	Standard types	With 60 degree angle	High capacity	Wire gauze
125	Ms-Pak 125.Y	Ms-Pak 125.X	-	-
170	Ms-Pak 170.Y	Ms-Pak 170.X	-	-
225	Ms-Pak 225.Y	Ms-Pak 225.X	-	-
250	Ms-Pak 250.Y	Ms-Pak 250.X	Ms-Pak 252.Y HC	-
350	Ms-Pak 350.Y	Ms-Pak 350.X	Ms-Pak 452.Y HC	-
500	Ms-Pak 500.Y	Ms-Pak 500.X	Ms-Pak 752.Y HC	BX
750	Ms-Pak 750.Y	Ms-Pak 750.X	-	CY

These are the most used and common types in standard materials. Other types and versions can be supplied on request.

#### High Capacity Structured Packing

For the above types of structured packing, a high capacity version is available as well. The high capacity packing has a curved corrugation which decreases liquid hold-up at the intersection between two layers. This corrugation has an inclination of 45° in the center part, becomes steeper towards the edges in a smooth curve and ends vertically at both edges of the packing. This development to the standard types of structured packing increases the capacity up to 30% without sacrificing the efficiency (compared to the X types). The high capacity structured packing is used to increase capacity of existing units or to downsize new designs.

#### Properties

Liquid loads from 0.1 to 250 m<sup>3</sup>/m<sup>2</sup>.h

High separation efficiency, even when close to capacity limit

Low pressure drop

## Metal structured packing (Ms-Pak)

### Packed columns

#### Applications

Atmospheric and high pressure columns

Refinery columns

Petrochemical columns

Wastewater Stripper

#### Column Data

Diameters from 50 mm to 8.500 mm (or larger)

Operating pressures from vacuum to 6 bara (for higher pressures please contact MTE)

#### Production

The structured packing is either produced in a single piece or in segments. Installation can be done through either flanges or manholes

#### Variant types

Y-Types with 45° for standard packing

X-Types with 60° for larger liquid throughputs

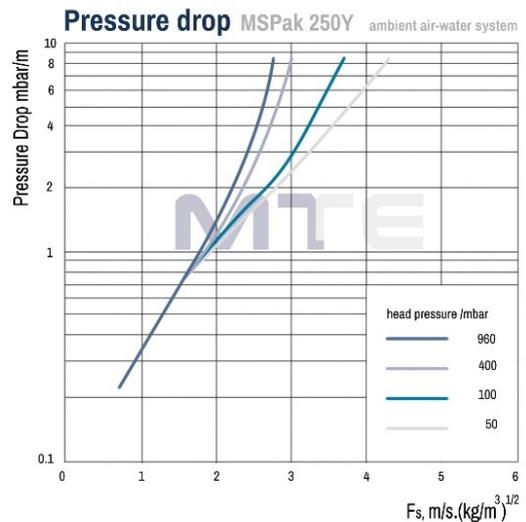
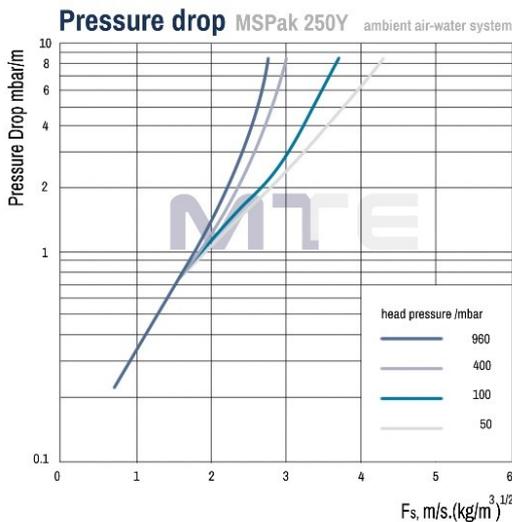
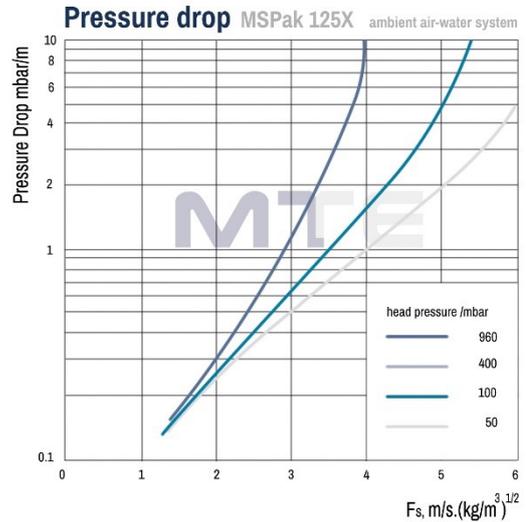
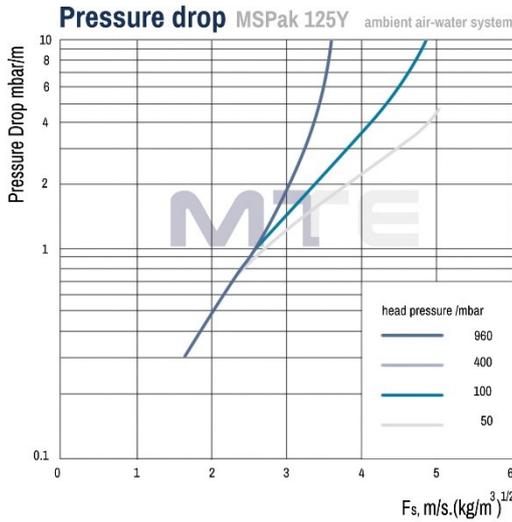
HC-types with curves angles for lower pressure drop and higher capacity at higher efficiency as Y-types

For additional information, support or (special) requests, please contact our sales department.

# Metal structured packing (Ms-Pak)

## Packed columns

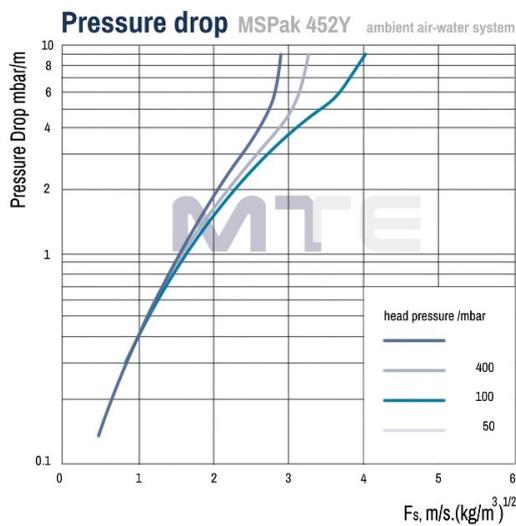
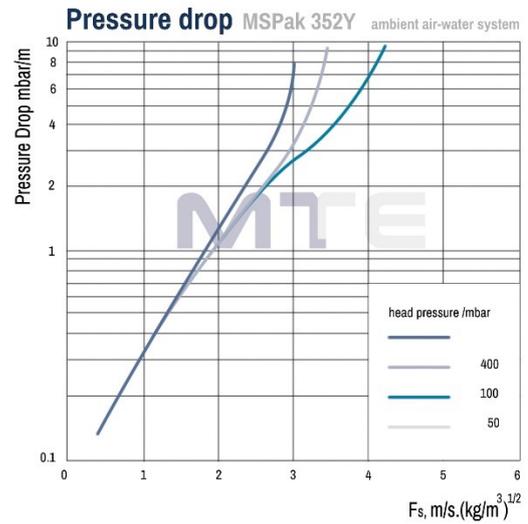
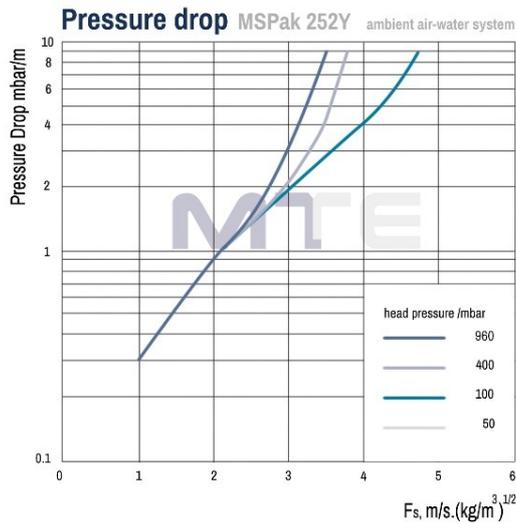
Standard curves of most used types



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## Packed columns



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