

MIST ELIMINATOR

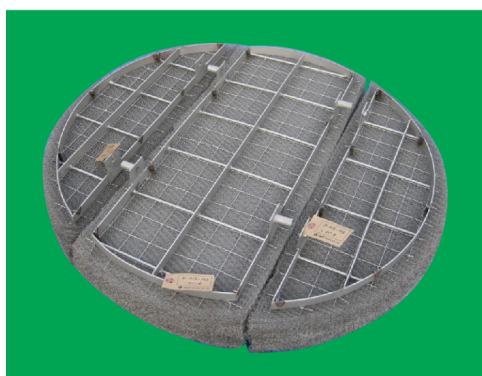
TPT PACIFIC supplies various type & materials of Mist eliminator. Wire mesh(Metal / Plastic) Type, Vane (Metal / Plastic) type are available. Mist eliminator is to remove liquid from air or gas flow using mechanical collection by surface or fillments.

Benefit of Mist Eliminator

- Reduce loss of valuable chemicals
- Minimize contamination
- Increase throughput capacity
- Provide equipment protection
- Improve product purity
- Reduce air pollution

Application

Vacuum Towers	Gas Absorption systems
Distillation Towers	Knockout Drums
Evaporators	Steam Drums
Scrubbers	



Knit Mesh Type Mist Eliminator

Knit mesh mist eliminators provide high separation efficiency at the low cost. Knit mesh mist eliminator is available in a variety of density.

Type	Density (kg/m3)	Surface Area (m2/m3)	Void (%)
TM-80	80	155	98.9
TM-120	120	210	98.5
TM-128	128	460	98.4
TM-144	144	275	98.2
TM-193	193	378	97.6
TM-300	300	575	96.2
TM-390	390	750	95.0
TM-432	432	1,780	94.5

Vane Type Mist Eliminator

Vane type mist eliminators provide best solution at fouling service. And vane type mist eliminators are baffle or zigzag blade modules tailored for either vertical or horizontal flow installations.

$$V=K ((D_L-D_V)/D_V)^{0.5}$$

V : Allowable velocity, ft/sec

K : See the table below

DL : Liquid Density lb/ft3 at operating temperature and pressure

DV : Vapor Density lb/ft3 at operating temperature and pressure

K value (ft/sec) FOR KNIT MESH TYPE

Clean conditions	0.351
Vacuum conditions	0.2 ~ 0.28
Plastic Mist eliminator	0.21
High pressure : > 20 bar	0.279

K value (ft/sec) FOR VANE TYPE

DESIGN	0.5 (for vertical flow)
MAX	0.65 (for horizontal flow)
	0.55 (for vertical flow)
	0.72 (for horizontal flow)