

Mist Eliminator-Plain Vane Pack
Introduction

Plain vane pack is a simple and robust vane type mist eliminator designed to remove liquid droplets from gas streams using inertial impaction. It consists of a series of straight, inclined parallel vanes arranged to force the vapor stream through multiple directional changes. As the gas changes direction, entrained liquid droplets impact the vane surfaces, coalesce, and drain by gravity.

The plain vane design is particularly suitable for applications where moderate separation efficiency, very low pressure drop, and high resistance to fouling are required. Its open geometry allows it to operate reliably in services containing solids, viscous liquids, or scaling contaminants.

Features

- Well performance in services with viscous or foaming (liquids, or solid contaminants)
- High gas capacity
- High gas velocity
- Effective removal due to minimized turbulence
- Easy assembly and disassembly in blocks
- High liquid load
- Made of high quality stainless steel
- High resistance to fouling
- Low pressure drop
- Moderate solid handling capacity
- Moderate efficiency
- Vertical and horizontal flow direction
- Housing not recommended

Applications

- Fouling service
- Coal/gas absorption
- Flue gas desulfurization
- Chemicals
- Pharmaceuticals
- Sulfuric acid plant
- Environmental protection

ESP Plain Vane Pack Specification

Type No.	Removal Range	Fouling Res.	Product Code
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ED-401	30	Very Good	P210201011
ED-402	30	Very Good	P210201021
ED-403	30	Very Good	P210201031
ED-251	20	Good	P210201041
ED-252	20	Good	P210201051
ED-253	20	Good	P210201061
ED-201	18	Reasonable	P210201071
ED-151	15	Low	P210201081
ED-101	10	Very Low	P210201091

