



Fiber bed mist eliminator

- Acid or alkaline mist can cause the problems of corrupt the vessels, product impure, heat exchanger blocked, catalyst failure, instrumentation damage. When it is released into the atmosphere would cause environmental pollution.

Mist eliminators usually include electrostatic mist eliminator, wire mesh mist eliminator and fiber mist eliminator. Wire mesh demister is efficiency investment, compact, easy to install, in the chemical production plant application is very common, but cannot eliminator the mist diameter is larger than $3 \mu\text{m}$. Electrostatic mist eliminator can eliminator different diameters' mist, but its disadvantage is high investment costs, high operating costs, its application has been limited.

Fiber mist eliminator demister is designed to remove a variety of mist particles in the air flow device, not only can remove large particle gas stream mist particles (diameter $> 3 \mu\text{m}$), but also for removing submicron also very effective.

Applications for Fiber mist eliminator

Devices	Usage	Solutions
Sulphuric Acid	Intermediate absorber tower eventually dry absorber oleum storage	Mist destruction catalyst mist corrosion damage downstream equipment catalyst corrosion of downstream equipment pollution
Chlorine	Wet Dry chlorine hydrogen chlorine	Saline mist increase the drying tower in an amount of sulfuric acid mist corrosion of the compressor, reduce the purity of the hydrogen product salts and other particles reduce the purity of the
Nitric acid	Ammonium platinum supply system air supply system recovery	Iron and mist pollution platinum platinum mesh mist under normal operating loss of nitric acid corrosion of downstream equipment
Ammonium Nitrate	Neutralizer Evaporator 造粒塔	Ammonium nitrate with exhaust discharge loss of product or environmental pollution ammonium bad smog forming emissions
Urea	Evaporator Granulator	Product loss or bad environmental pollution urea visible smoke
Sulfonation	Before the reactor, the reactor after	Mist caused by impure product mist cause air pollution
Phosphoric acid	Heat absorption	Mist causing air pollution
Compressed air	After the condenser	Oil mist and equipment corrosion caused by impure product