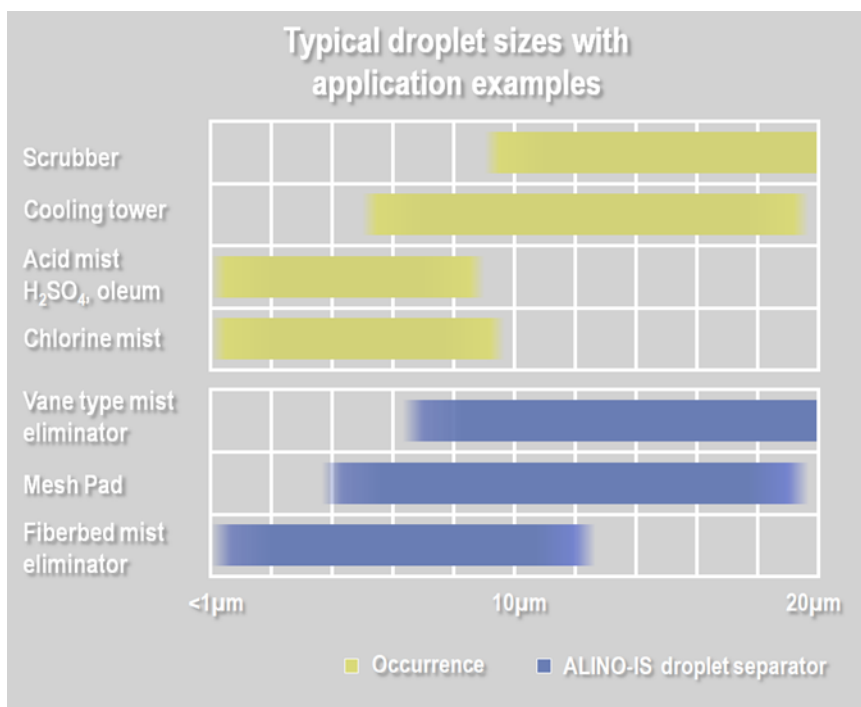


MIST-ELIMINATOR

Fine Separation

Mesh Pads

Mesh pad or wire mesh separators are a great solution for droplet removal. They work by redirecting the gas flow to pass through a mesh in which droplets are detained through inertial forces, while creating only minimal pressure loss.



Mesh pads are often used in evaporators and separation columns to prevent liquid from getting carried into the gas flow. They are also utilised in cooling systems condensers and after scrubbers to protect the system from liquid spray.

Mesh Pad droplet separator

Mesh Pads are knitted fabrics made of thin stainless steel wires or special plastic. They are designed to create a large inner surface area to capture droplets as efficiently as possible.

The separated liquid is usually fed back into the process. For example when installed horizontally, the liquid forms large droplets which simply rain downwards allowing them to be removed or returned to the product stream.

Depending on the layer thickness of the mesh pad, droplets between 2 - 5 μm and upwards can be separated from a gas stream.



The shape of the mesh pad itself can be adapted individually to fit different flow cross-sections.

Droplet separation with mesh pads

The overall thickness of the mesh pad depends on the desired separation efficiency.

With increasing thickness the fineness and efficiency of the separation increases. However, it should be noted that the pressure loss also rises.

If very fine separation efficiencies below 2 μm are to be achieved, ultra-fine droplet separators made of glass or polypropylene fibres should be used.

The flow velocity is calculated so that the droplets removal is at a maximum without risking re-entrainment.

Mesh pads are individually designed and manufactured according to your wishes and specifications.



If you have any questions please do not hesitate to contact us. You can find us on the Internet at www.ALINO-IS.de.

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