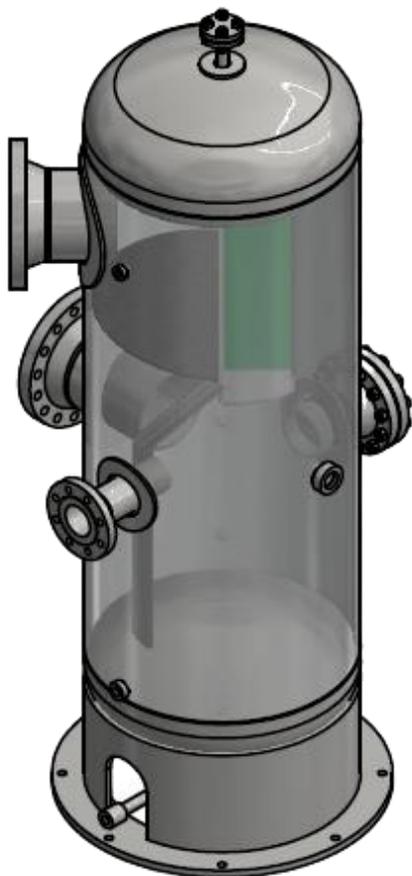


Compressor KO Solutions



MIST ELIMINATOR TECHNOLOGIES FOR EFFECTIVE & ECONOMIC DESIGNS

Gas Compressor KO Drums and Scrubbers are universally used to remove liquid mist and slugs that form due to condensation from changes in temperature, pressure and composition during the stages of compression and cooling.

Our Compressor Scrubber internals have been developed as a cost-effective and easily maintained solution for the problem of treating gas streams, removing >99% of droplets across a wide pressure range. All our internals are normally removable for easier maintenance and repair.

We have a wide range of effective separation technologies to draw upon for each specific application, depending on the flow characteristics. Hundreds of installations are in service world-wide with **KIRK's Inlet Diffusers, Vane Packs, Multicyclones and Swirltubes** cleaning gas containing liquid mist and frequently contaminated with solids. Benefits include low pressure drop options combined with excellent removal efficiency, which is also being removable for servicing as required. A variety of vessel nozzle configuration options is also possible as illustrated overleaf, to match installation pipework.

KVID™ INLET DIFFUSERS

KVME™ VANE DEMISTERS

KSME™ SWIRLTUBES



practical
solutions

Gas compressors used in many applications will often encounter liquid mists that can cause numerous maintenance and operational issues if not effectively removed. Liquids can be carryover or condensed water or light hydrocarbons, as well as glycols or methanol injected for corrosion or hydrate inhibition.

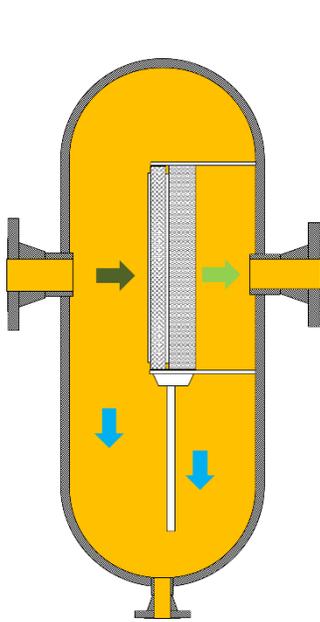
A well designed removal solution may need to cater for variations in gas temperature, density and flow, whilst being capable of removing liquid slugs or liquid mist of unpredictable composition as well as possible solids.

Often a combination of separation devices is required to meet these challenges.

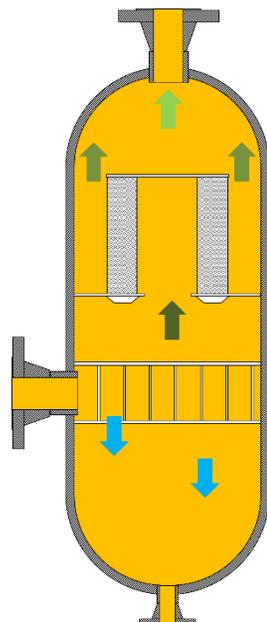
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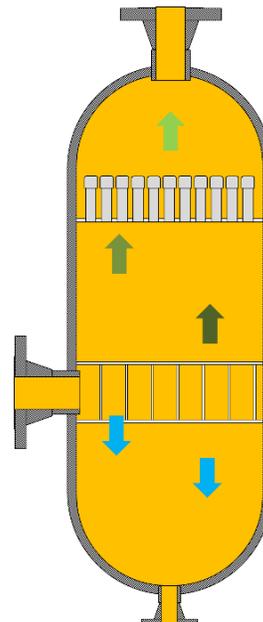
Drawing upon our specialist range of internals, KIRK Process Solutions products are well proven in service, removing down to 5-10 microns or better and providing maximum on-stream uptime. Layouts may be in-line (opposite), in-line (staggered) or side inlet / top outlet. The arrangements can also be used in combination with separate KO drums or Filters for full flexibility.



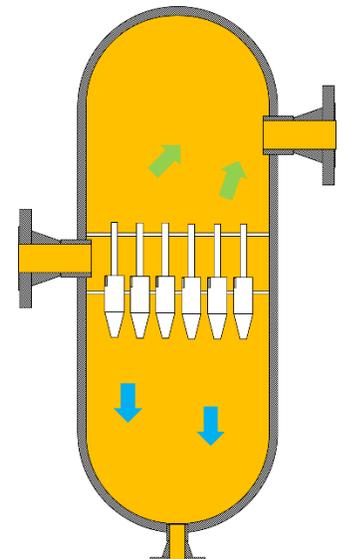
In-line KVP Vane Pack arrangements suit applications with light liquid mist loads and can handle some solids in the mix. For clean service a mesh pre-coalescer is sometimes added for even better performance.



For higher liquid loads or slugs a 2 stage procedure is used, with KVID Inlet Diffuser for bulk liquid separation, followed by a polishing mist eliminator such as a vane pack illustrated here for clean service.



Alternatively, KSME Axial Cyclones on a simple deck can be used to cater for lighter solids loadings together with liquid slugs or heavy continuous mist.



KMCE Multicyclones installed between 2 seal plates can be partially or wholly removable. They cope well with dry or wet solids and handle small quantities of entrained liquid mist.