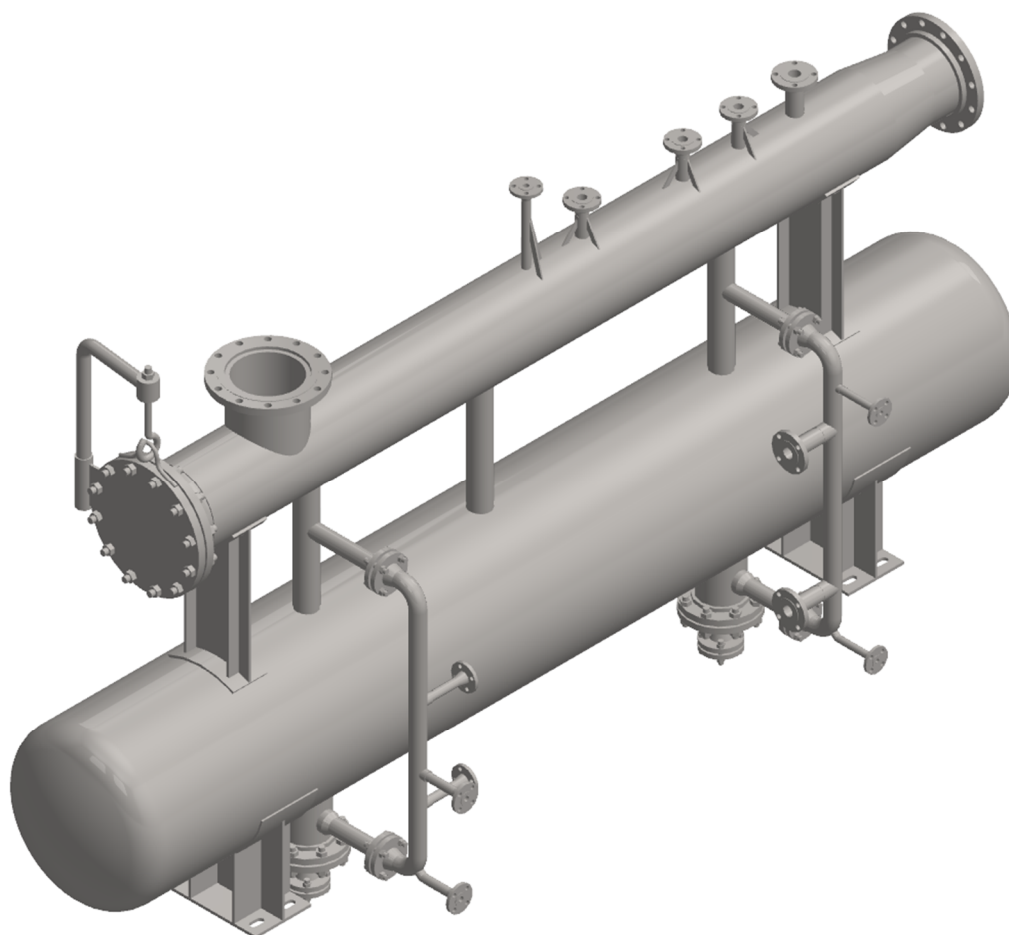


Filter Separators

Liquid - Gas Separation



Salient Features

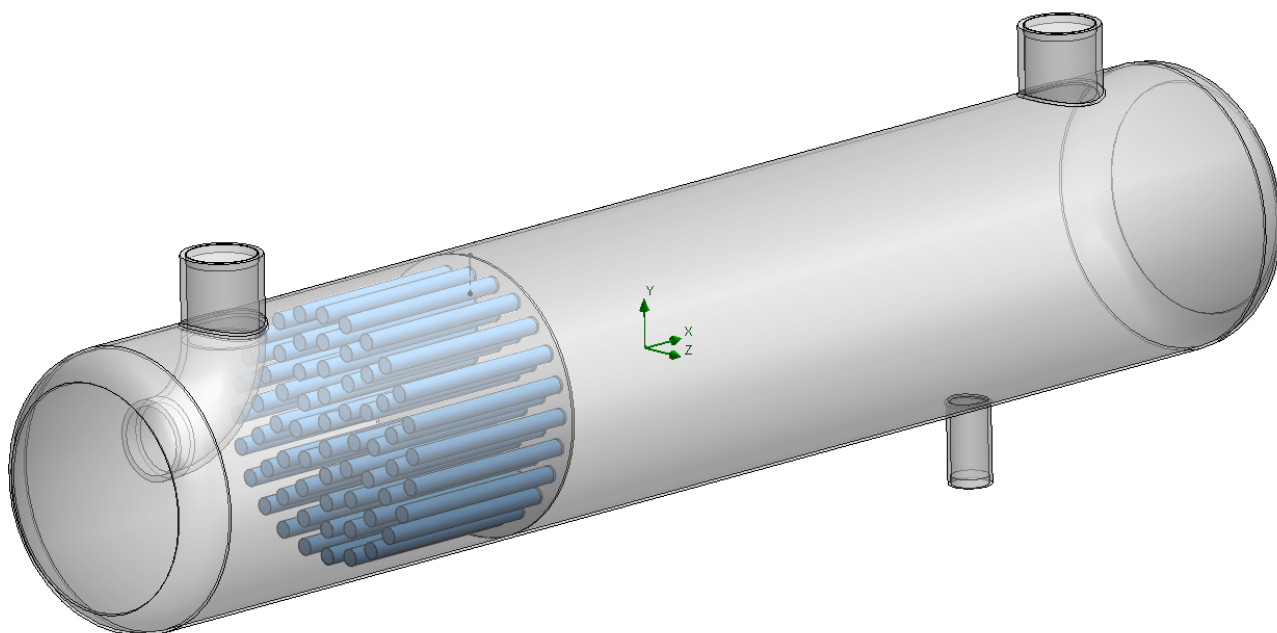
- Removal of solid particles up to 1 micron at 99.5% efficiency
- Removal of liquid droplets up to 0.3 micron at 99.96% efficiency
- Suitable for separation of water and liquid hydrocarbons from gas
- Suitable for sour service

Advantages over Conventional Separators

- Suitable for emulsions with surface tension less than 50 dyne/cm
- Suitable at rated as well as turndown velocities
- Suitable for separation of atomized droplets
- Requires smaller settling zones due to larger coalesced droplets, hence smaller vessel/footprint as well

Key Competitive Advantage

Sungov's Horizontal Separators have the option of incorporating an inlet separation device, a filtration chamber for solids separation along with high efficiency coalescing filter separators and demister pad/vane pack for handling a wide range of solid-liquid-gas separations. Together, these embellishments result in a longer service life of vessel internals and consequentially lesser downtime. Furthermore, the fact that Sungov manufactures its own filter/coalescer elements inside a clean room facility facilitates bespoke, optimally engineered solutions.



Design Features

- Specially structured filtering & coalescing media with high coalescing area to achieve low pressure drop
- Coalescing media with sequentially larger pore-size to improve drainage of coalesced droplets
- Elements with stainless steel support as standard for robust strength as option
- Liquid phase boot as standard for easy draining using level alarms
- Thread free sealing for special service requirements as option
- Vessels built to ASME Sec VIII Div. 1 or Div. 2 with Code stamping as option

Applications

- Solids/water/hydrocarbon condensate removal from fuel gas upstream of gas turbine/generators
- Solids/water/hydrocarbon condensate removal from process gas upstream of compressors
- Solids/water/hydrocarbon condensate removal in city gas distribution grids

Materials of Construction

- NACE MR 0175/ISO 15156 compliant carbon steel materials like SA 516 Gr. 70N, SA 105N; Corrosion Resistant Alloys like dual certified SA 240 TYP 316/316L, SA 240 TYP UNS S31803; Clad/weld overlay with exotic alloys as options

Industries Used In

- | | | |
|------------------------|----------------------|--------------------------|
| • Oil & Gas Production | • Petrochemical Mfg. | • Oil & Gas Distribution |
| • Petroleum Refining | • Power Generation | • Marine |

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