



Filter

Filters serve the purpose of separating a distinct phase from a continuous phase. The distinct phase comprises of solid particles and/or liquid droplets and continuous phase can be either gas, liquid or solid. The filter operates as a coalescer when the distinct phase is in a liquid state.

As Your **Reliable Partner**

PANTAN has provided numerous process packages and equipment to different customers, tailored to meet their individual demands.

With many years of experience in the field of separation, our team is able to provide optimized designs for various filtration applications and packages as per the client's requirements.

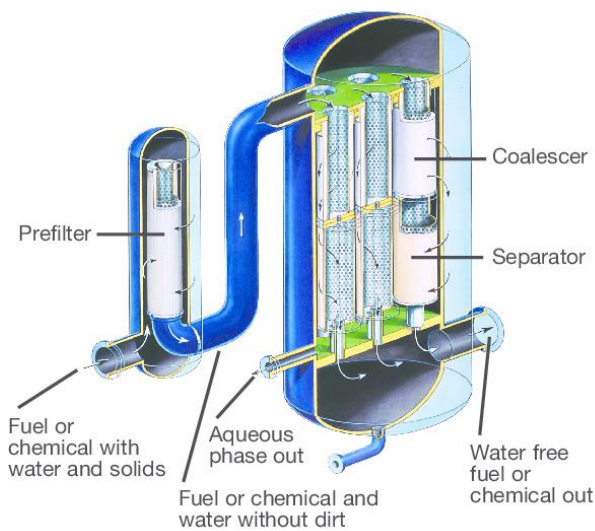
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Filtration system sections

The filtration system may comprise prefiltration, knockout, filtration, coalescence, and final separation depending on the particular application.

When the contaminant is only solid, usually a knockout and filtration segment can sufficiently remove it.

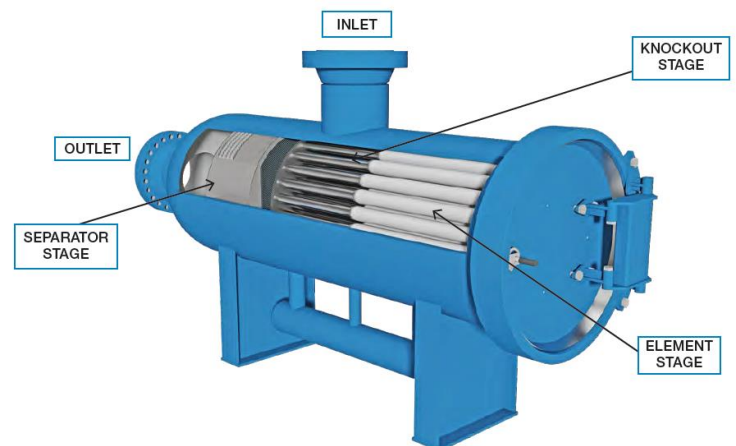
In cases of liquid-liquid applications, a prefilter is required before the coalescence section to eliminate any present solid and protect the coalescer. Coalesced droplets can be removed by gravity or using a barrier with oleophobic or hydrophobic properties.



Gas filter separator

Gas filter separators are designed to eliminate solid pollutants and liquid impurities of fine to medium size from a gas stream in three distinct stages: the knock-out stage, the element stage, and the separation stage.

The knock-out section is employed to remove contaminants from the gas stream by means of impact, deflection, and gravity. In addition, the element section performs the dual tasks of filtering solid particles and coalescing liquid droplets. Depending on the nature of contaminant, the separation stage can be equipped with available separation devices such as wire mesh, vane pack or centrifugal mist eliminators.



When gas is contaminated by both solid and liquid substances, it poses a particularly Challenging filtration case. However, this can be resolved by implementing gas filter separators.

SEPARATION & FILTRATION

focused on

proven solutions



abundant applications found almost **EVERYWHERE**

- Fuel treatment filter package in power generation units
- Fuel gas conditioning
- Boiler water filter
- Lubrication System filtration package
- Hydraulic system filtration
- Polymer filtration package
- Polyolefin filter package
- Feedstock filtration in Bleaching Process
- Mud removal or glucose syrup clarification in the production of sweeteners
- Compressor gas Inlet filtration package
- Hydrocracker feedstock filtration
- Contactor inlet and outlet filtration
- Amine Filter
- Glycol Filter
- Air filtration in the food industry
- Steam filtration in the food industry
- Edible oil filtration
- Water filtration in the food and beverage Industry
- Catalyst protection filter package
- Molecular sieve filtration
- Cold box filtration
- Process water filtration
- Onshore produced water treatment package
- Injection water filtration
- Completion fluid filtration

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