

Coalescer Solutions Overview

The purpose of coalescer filters is to separate submicronic oil, water, and solids from process streams. Without these filters, contaminants can damage equipment and compromise the integrity of the process stream. For filtering process fluids, the most common application of coalescer filters is to remove oil from water or vice versa. For filtering process gases, coalescer filters most commonly remove solid or liquid particles from the gas.

Coalescer filter media is constructed from multiple layers of material, which vary depending on specific filtration requirements. These layers bond together to form one coalescer filter media. Regardless of the specific material layers used, all coalescing filters function by following these basic steps:

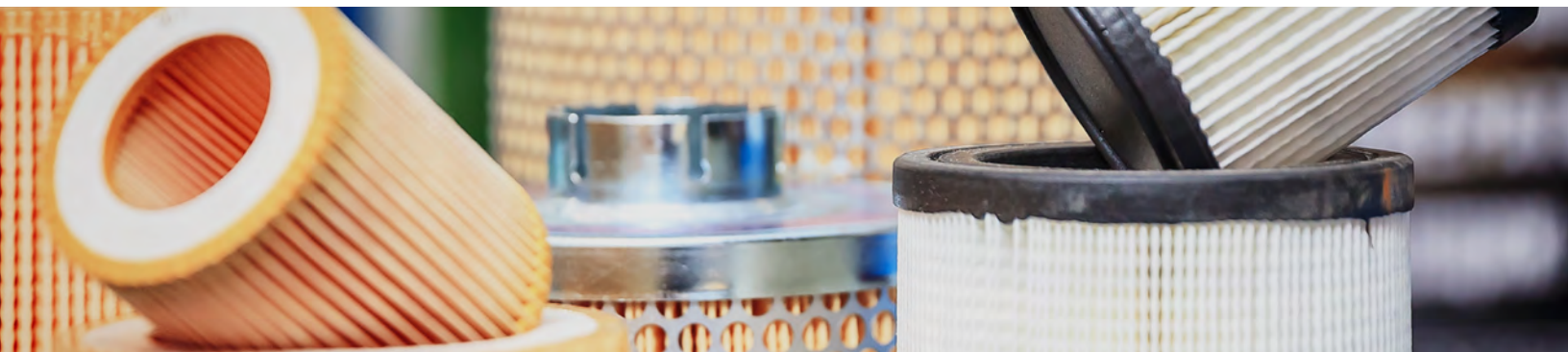
1. Capture the droplets or particulates.
2. Combine the small, separate droplets into larger droplets.
3. Use gravity to separate the larger droplets from the process stream.

Hollingsworth & Vose is an industry leader in supplying coalescer filter media for many critical industries, including pharmaceutical, chemical, and pneumatic power. Our coalescer filter media effectively separate certain liquids, gases, or other impurities from process streams.

Coalescer Benefits

H&V's coalescer filter media solutions provide companies with a variety of benefits and features, including:

- Broad surface area, leading to lower pressure drops
- Protecting downstream equipment from contaminants
- 98% micron rating for efficiency
- Removing the maximum amount of solid and liquid particulates from gas process streams
- Long service lifespan
- Low maintenance and operational costs
- High-capacity flow rates
- Excellent solids holding capacity



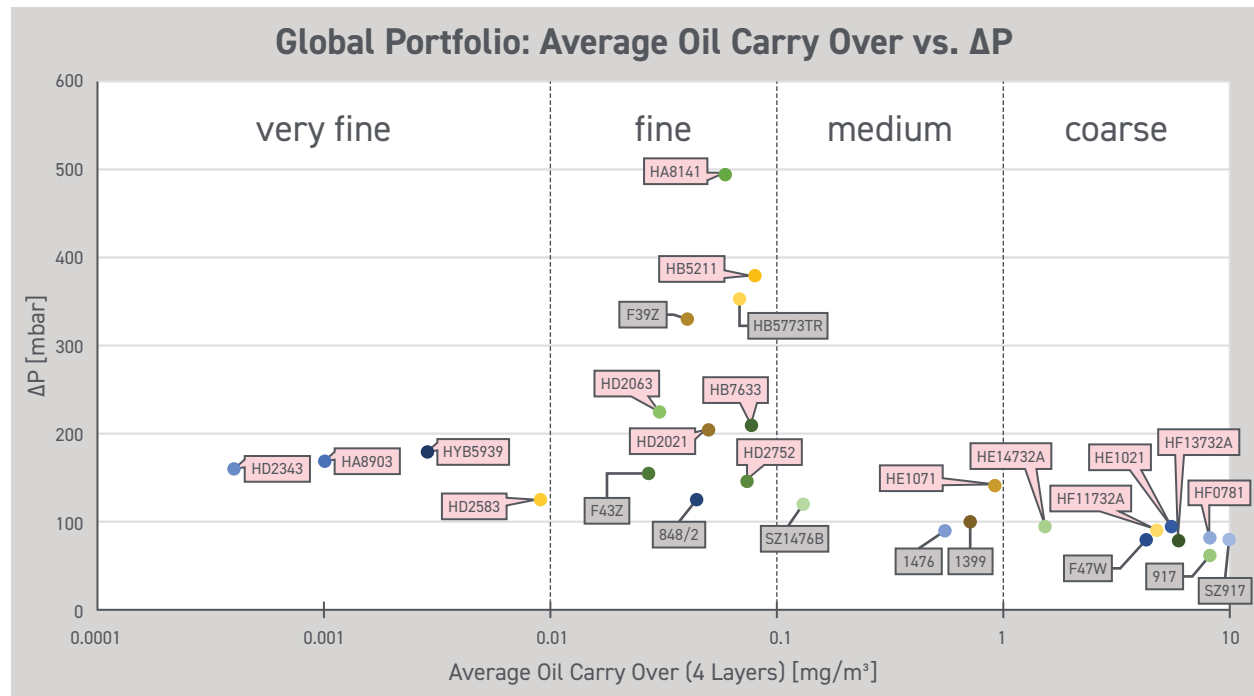
Coalescer Applications

Most applications of coalescer filter media involve separating hydrocarbon compounds—such as oil—from liquids. Other potential applications include:

- Filtering aircraft fuel
- Filtering diesel fuel
- Filtering industrial steam
- Filtering process streams in petrochemical plants and refineries
- Removing solid and liquid particulates from airstreams and hydrocarbon products during processing
- Separating oil in refrigerants
- Removing oil from water
- Producing fertilizers
- Compressing natural gas

Product Offerings







This graph shows how our coalescer filter media for the compressed air market provides high-efficiency air/oil separation with the lowest possible pressure drop. With the ban of PFAs (Perfluoroalkyl and Polyfluoroalkyl substances) looming globally, H&V is already developing new PFAs free media (in blue).



***Coalescer testing condition (no ISO-Standard):**

Atmospheric pressure; Face velocity: 20cm/s; Oil concentration: 2.5g/m³; Oil: Shell Corena S3 R46; Filter area: 100 cm²

Coalescer Grades

Subsegment	Coalescer	Common Names	Construction	H&V Media
Aviation Fuel + Bulk Fuel		Coalescing Cartridge	Cartridge Design Wrap + Pleat 11"-60" length	HC4271, HC4011, HB5211, DC4271, DD2391, DE1741
Hydraulic Fluid		Water Removal Filter	Cartridge/Spin-on Wrap + Pleat	DC4271, DD2391, DE1741
Diesel Fuel		Prefilter or Fuel Water Separator	Cartridge/Spin-on Wrap + Pleat	DD2391, DE1741
Compressed Air		Inline Coalescer Air/Oil Separator	Cartridge/Spin-on Wrap + Pleat	HA8141, HB5211, HB7633, HC4011, HE1071, HE1021, HF0421, 1476, 1477, 1399
Refrigerants		Oil Separator	Cartridge/Spin-on Wrap + Pleat	HB7633, HD2021, HD2343, HE1071, HE1021, HF0421
Natural Gas		Natural Gas Coalescer Cartridge	Cartridge Design Mostly Wrap 45"+Cartridges	HB5211, HD2343, HD2021, HE1071, HE1021

About Hollingsworth & Vose

Hollingsworth and Vose is a global manufacturer of advanced materials used in filtration, battery, and industrial applications. Family-owned for seven generations, the company's origins go back to the early 1700s and we have evolved continuously since that time.

Today, H&V's advanced materials contribute to a cleaner world through their use in products that provide clean air, clean liquids, and energy storage. Our Company is headquartered in East Walpole, Massachusetts USA, with 13 manufacturing and research & development facilities in the Americas, Europe, China, and India.