Fuel Filtration & Coalescer Housing Assemblies

Custom Built Filter Housing Assemblies and Systems designed to remove particulate and/or water contamination from a variety of fuel oils.

Various sizes to handle flow rates ranging from 50 GPM to 2000 GPM.

This equipment will ensure that #2 Diesel Fuel meets or exceeds all new stringent Fuel Oil Cleanliness Specifications set by General Electric, Caterpillar, and other OEMs

OIL FILTRATION SYSTEMS®

A Clark-Reliance Company

Guaranteed to Provide Clean &

Oil Filtration Systems (OFS) equipment will ensure that diesel fuel meets or exceeds stringent OEM cleanliness specs for turbine generators and large diesel engines.

- Prevent fouling and clogging of fuel injectors on turbine generators and newer Tier 2 and Tier 3 diesel engines.
- Prevent premature plugging of fuel filters in the field on large off-road equipment and rolling stock.

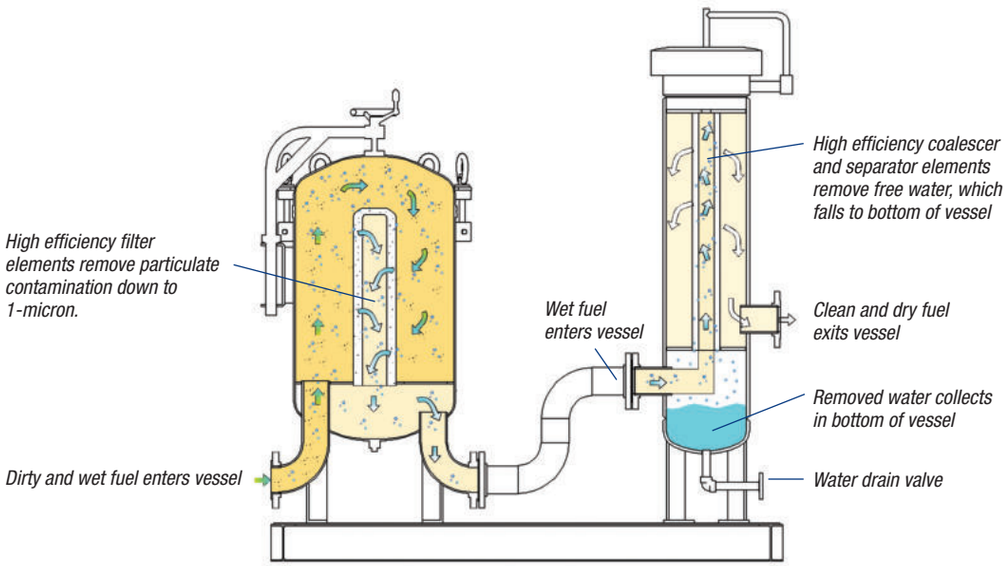
Duplex fuel filter and coalescer housing (Up to 300 GPM flow rate)

Fuel filter and coalescer housing (100 GPM flow rate)

Applications / Uses

- #2 Diesel Fuel for use in turbines (eg. General Electric TM2500)
- High Sulphur and Low Sulphur #2 Diesel Fuel for use in CAT® haul trucks and other large mobile equipment
- Medium Unleaded Gasoline (MUM)
- Light Fuel Oil (LFO)
- Naptha
- Alcohols

& Dry Diesel Fuel for Your Equipment



Employs the Most Efficient Filter Elements to Achieve Optimal Fuel Cleanliness

- To quickly and reliably achieve very low particle counts in fuel oils to meet or exceed stringent OEM cleanliness specifications (as low as ISO 14/12/11), we utilize high efficiency 2.5 Micron or 5 Micron pleated microglass filter elements rated Beta(c)>1000 per ISO 16889. Our filter elements have more media and surface area than other conventional elements, resulting in lower clean initial pressure drops, better filtration performance, higher dirt-holding capacities, and longer life.

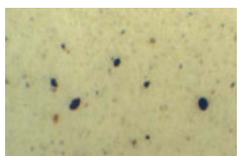
- To effectively remove water from fuel oils, we utilize the latest micro cellulose coalescing technology combined with Teflon® separators to achieve overall moisture content of 50 PPM or lower.
- For applications with unusually high concentrations of particulate contamination in the fuel, we utilize nominally rated 5 Micron polyester felt bags as pre-filters to extend the life of high efficiency (and more expensive) pleated microglass filter elements downstream. These bags are sintered and stitched for maximum durability, and are available in a wide variety of micron sizes depending on the particle size distribution within the fuel oil.

Water Removal

Contaminated Fuel - emulsified water with free water at bottom

Filtered Fuel - sample water less than 20 PPM

Particulate Removal



Before - ISO 22/20/19

After - ISO 14/12/09

Standard Features

- All vessels built to ASME Code Design (Section VIII, Division I)
- Differential pressure gauges give positive indication when filter elements are plugged and need to be changed
- Upstream & downstream fuel sample ports

Optional Features

- ASME Code (U) Stamp
- Duplex configurations which enable an operator to change out plugged filters without interrupting the flow of fuel through filters
- Automatic water drain from coalescer vessels (electric or mechanical)
- Electric differential pressure switches for remote monitoring
- Bag filter housings loaded with polyester felt bags to act as pre-filters, cost effectively removing large concentrations of bulk particulate contamination and significantly extending the life of high efficiency pleated microglass and coalescer filter elements downstream
- Stainless steel materials of construction

Duplex fuel filter and coalescer housing (400 GPM flow rate)

We build custom fuel delivery pumping systems with coalescer and filter housings.

OIL FILTRATION SYSTEMS®
A CLARK-RELIANCE COMPANY

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