

ABOUT REFUEL

Refuel is a leading manufacturer of high efficiency diesel filtration systems for commercial and industrial stored diesel applications.

Refuel replaces traditional fuel management practices which deploy harsh chemical additives, annual fuel replacement or continuous operation of engines in non emergency situations to burn off fuel reserves. Refuel's closed-loop filtration process keeps fuel free of particulate contamination and water ingress while eliminating diesel sludge in your tank, preventing recontamination of your fuel.

Our mission is to help our commercial, industrial and mission critical clients maintain continuous operation during emergency situations and prolonged power outages.

For more information and pricing please contact your Refuel Systems Authorized Agent.

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STORED DIESEL INTEGRITY

INTEGRITY SERIES FILTER



REFUEL SYSTEMS: INTEGRITY SERIES FILTER

The Integrity Series Filter builds on Refuel's reputation as the leader in closed-loop filtration systems, for long-term stored fuel applications.

The Integrity Series Filter delivers industry leading filtration technology, removing particulate from stored fuel down to 0.5µ (microns) and features a water holding capacity of 3L per filter. The result is pristine reliable fuel for emergency generators, ensuring clean start-up and continuous operation.

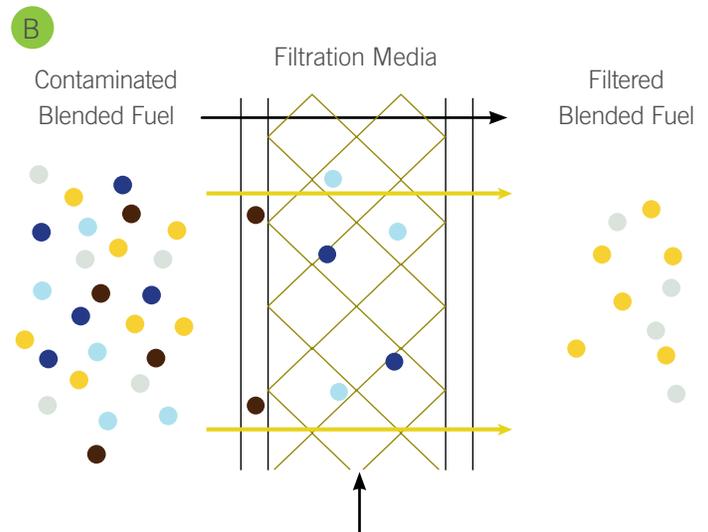
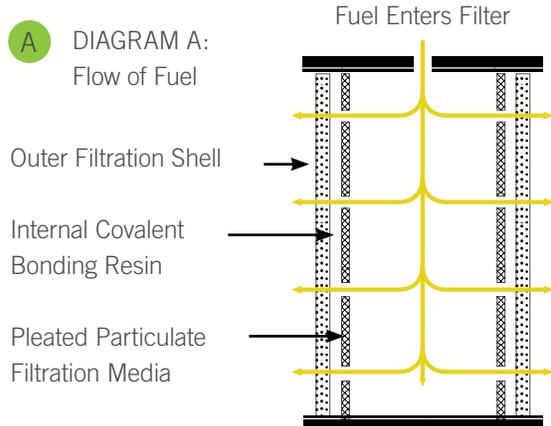
The Integrity Series Filter uses a patented* covalent bonding process and features self monitoring technology that automatically triggers a system warning when the filter enters the final stages of its effective life.

The patented chemistry of the new Integrity Series Filter works by forming a covalent bond with the hydrogen atoms of any water molecules present in stored diesel.

Covalent bonding is a form of chemical bonding characterized by the sharing of pairs of electrons between atoms, and other covalent bonds. This chemical reaction allows the filter resin to absorb water whether it's free standing, emulsified or water separated alcohol found within fuel.

The covalent bonding is what creates the self-monitoring properties of the filter. As the filter removes water and reaches its capacity it automatically slows the fuel flow rate through the filter, triggering a system pressure change and alerting the operator of the need to replace the filter element. This ensures the filters are not used beyond their effective specification, allowing maximum protection for mission critical emergency.

* Refuel's new Integrity Series Filter technology has been granted patents in Canada, The United States and over 20 other countries.



COVALENT BONDING: Fuel enters the media resin trapping any hydrogen atoms present in the fuel converting the Resin to Gel.

SELF MONITORING: As Gel levels increase the flow rate decreases, eventually reaching a critical threshold, triggering a filter replacement warning.

- Alcohol (-charge)
- Alcohol(-) & Water(+)
- Fuel
- Particulate
- Water (+ charge)

Refuel's new Integrity Series Filter is compatible with existing Refuel filtration systems and is rated to work with:

- Low Sulphur and Ultra Low Sulphur Diesel
- Bio-Diesel
- Gasoline with up to an E-85 Ethanol rating
- Hydraulic oils
- Lubricating oils

Refuel guarantees our client's stored fuels will meet regulatory compliance standards and engine manufacturer's warranty requirements of generator warranty fuel specifications. The Integrity Series Filter offers you extra peace of mind and system monitoring integrity.