FuelTec Systems
Model S2415B-50-UL & S2430B-50-UL
900 & 1,800 GPH Automated Fuel Polishing

Fifty (50) Gallon Contaminate Storage Capacity for Remote Sites

- Touch Screen/PLC Based Controller for One To Four Indoor or Outdoor Fuel Storage Tanks.
- Filtration and Water Removal to Engine Manufacturers Recommended Cleanliness Levels.
- Low Cost Replacement Filters.

(704) 419-9939  www.carbonfuelservices.com
The primary sludge filter first removes heavy particulate that is typically found in existing tanks that may not have been thoroughly cleaned.

Polishing Systems without a primary sludge filter risk prematurely clogging expensive water separators and fine filters.

This System maintains a condition to engine manufacturer's recommended cleanliness levels of ISO particle code of 18/16/13 in up to four diesel fuel tanks with a capacity of up to 200,000 gallons.

Fueltec's Systems have a low operating cost.

**PLC/HMI Touch Screen Controller:**
- Underwriters Laboratory 508A Listed
- Automatically stops the fuel pump for high separator water, filter change required or system fluid leak.
- Controller will operate the system on one to four fuel tanks.
- Modbus and Optional Wireless SMS System Reporting

**Primary Filter:**
- Removes sludge, rust, and particulate with low cost disposable filter bags.
- Filter Media available in one (1), five (5), and ten (10) micron rated bags.
- Filter does not require back flushing.

**Fuel Pump:**
- Industrial positive displacement gear pump rated at 15-30 gallons per minute, 100% duty cycle.
- Self-priming pump lifts 16 feet and features a 230 Volt 60Hz 1PH TEFC Motor.

**Water Separator:**
- First phase 10 micron pleated filter media
- Second phase Micro-Glass (jet fuel type) Coalescer removes tiny water droplets of free and emulsified water from fuels by causing the droplets to grow larger until contained in a water trap.
- The third phase utilizes a water repellant Teflon screen to keep the water from flowing with the fuel.
- The water is removed to less than 100 parts per million as recommended by engine manufacturers.
• This process does not require the use of costly water absorbing (water blocking) filters.

**250 Liter (50 gallon) Separated Water Storage Capacity:**
• The 250 liter water storage trap with internal floats keep track of separated water in real time and alerts you high water levels.
• System will shut down and sound an alarm when water trap is full.
• An optional modem can send text messages of the system’s conditions.

**Final Filtration to One (1) Micron:**
• Final Fuel Polishing to one (1) micron with two bag filters.

**System Enclosure:**
• System components are housed in an aluminum rain tight enclosure with a lockable door.
• Enclosure sump is equipped with fluid leak alarm that shuts down the system if a leak should occur.

**Electric Ball Valves Direct Fuel to and From Storage Tanks:**
• Systems are designed to service One (1) to Four (4) storage tanks.
• If you add additional storage tanks, you just add additional valves to your system.

**System Options:**
• Installation kits for aboveground and underground tanks with fluid pickup tubes and tank entry flanges and fittings.
• Heated enclosures and accessories for installation in freezing locations.
• Valve towers that are plumbed and pre-wired for easy installation of fluid control and anti-siphon valves.

**Sizing Your Fuel Polishing System**
• Water and most fuel contaminants are heavier than fuel and will settle in a lower phase on the tank bottom.
• Contrary to some beliefs; Testing has proven that this lower phase may only be 10-25% of the tanks content.
• The upper phase of 75-90%; if left un-disturbed will remain clean and relatively dry.
• Therefore a properly designed system will remove this bottom phase of water and contaminates without mixing with the clean upper phase fuel.
The FuelTec Model S2415B-50-UL is a 900 GPH System:

- Example "A": Four (4) 20,000 gal. tanks containing a total of 72,000 gal. of product.
- To polish 25% of 72,000 gal. = 18,000 gal.
- Operating 10 hours (on ten hr. then off 14 hours) per day will circulate and remove contaminants in 18,000 gal. in two days. (72,000 gal in 8 days)

The FuelTec Model S2430B-50-UL is a 1,800 GPH System:

- Example “B”: Four (4) 50,000 gal. tanks containing a total of 180,000 gal. of product.
- To polish 25% of 180,000 gal. = 45,000 gal.
- Operating ten hours (on ten hr. then off 14 hours) per day will circulate and remove contaminants in 45,000 gal. in 2-1/2 days. (180,000 gal in ten days)