

NEW FUELTEC MODEL 1025SS-UL



Overview

- The Model 1025SS-UL is a fuel oil filtration and maintenance system that automatically removes particulates and water from fuels in storage.
- A stand alone system that can be used indoors or outdoors on tanks with capacities of up to 10,000 gallons.
- In operation the system vacuums fluid from the storage tank bottom, removes contaminants then returns the clean dry fuel back to the tank.
- This fuel oil filtration system maintains a condition exceeding the engine manufacturer's recommended cleanliness levels of ISO particle code 18/16/13.
- For use on aboveground fuel storage tanks, day and sub-base tanks, marinas, truck and fleet fueling facilities.

PLC/HMI

Touch Screen Controller:

Controller will set filtration cycle on one fuel tank.

High separator water alarm

Change primary filter alarm

Change secondary filter alarm

Fluid leak alarm

System operating

Underwriters Laboratory 508A Listed

Fuel Pump:

Industrial bronze positive displacement gear pump rated at four gallons per minute, 100% duty cycle.

Self priming pump lifts 16 feet and features a 115/230 Volt 60Hz 1PH Motor



Fuel/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 repellent 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 or back-flushing the system

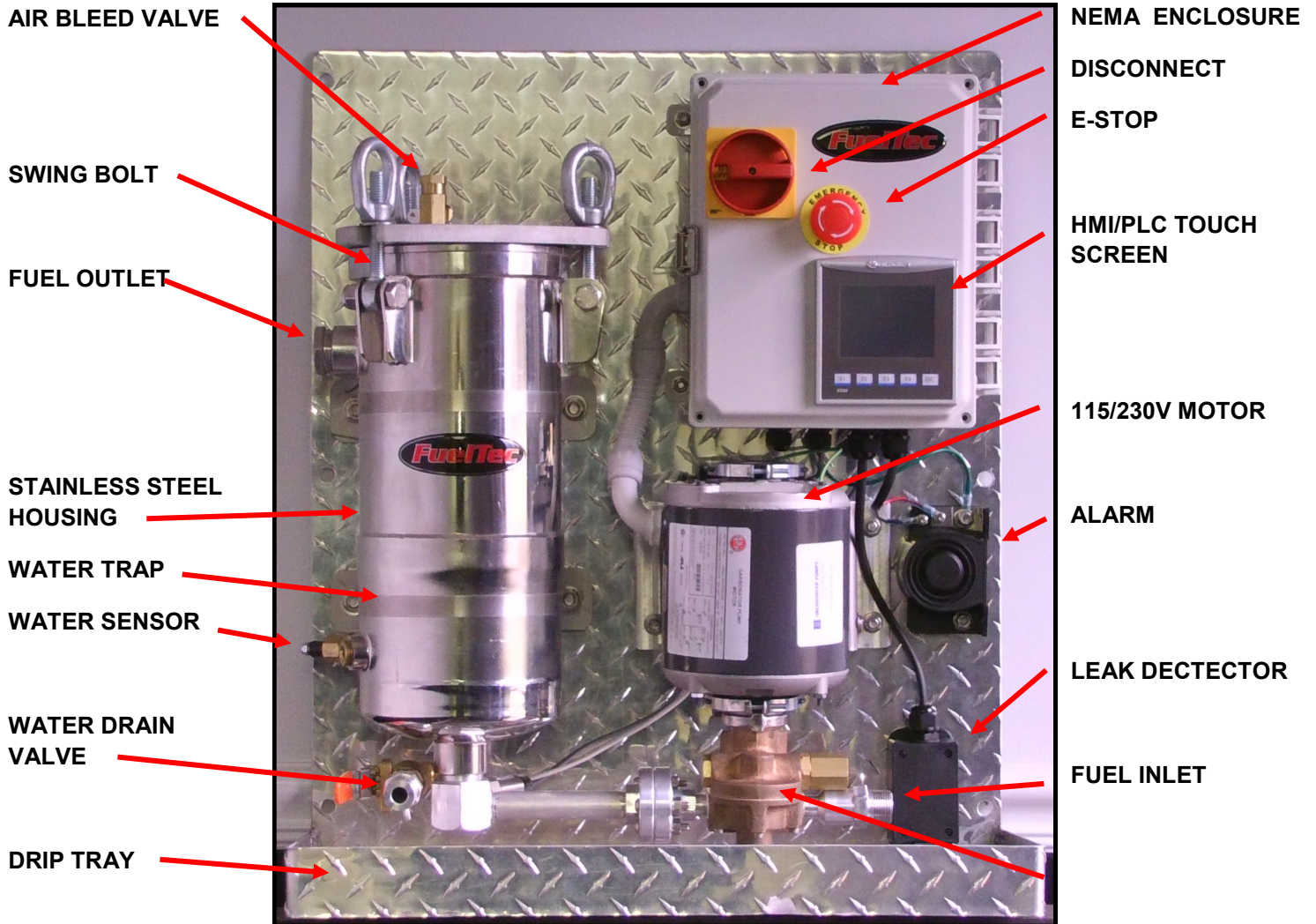
Optional System Enclosure:

System components can be 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.



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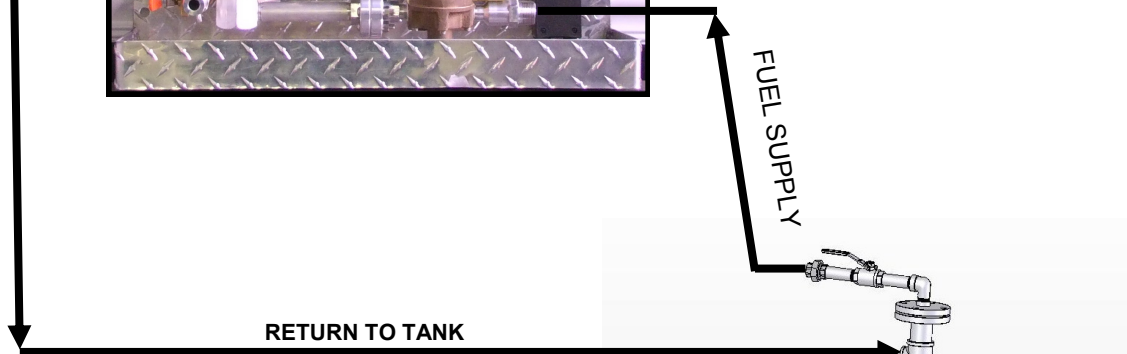
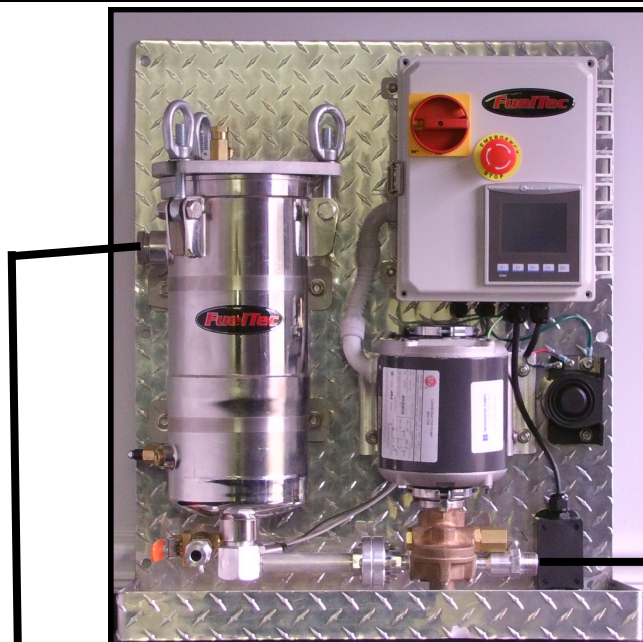
Micro-glass coalescer causes tiny water droplets to increase in size so they will not pass through the water separator



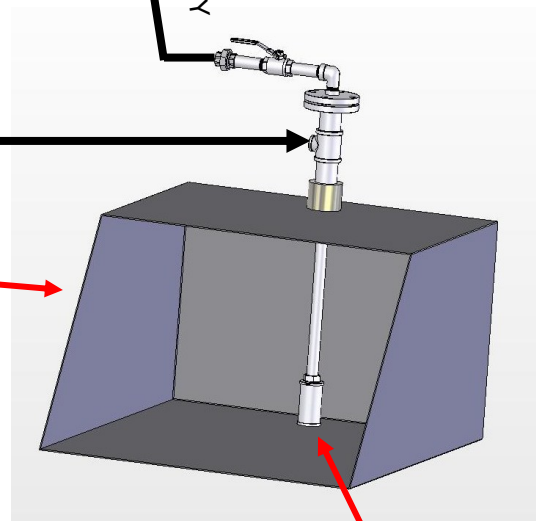
Teflon coated hydrophobic water separator prevents water from traveling with the fuel



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GENERATOR SUB-BASE FUEL TANK



PICKUP TUBE ON TANK BOTTOM





Fueltec's Mobile and Stationary Fuel Polishing Systems are in use Worldwide:

- **South Florida Water Management District**
- **US Navy Special Operations Norfolk, VA**
- **US Navy Port Operations San Diego, CA**
- **Homestead AFB FL**
- **Federal Aviation Administration DFW Airport**
- **Palm Beach County, FL correctional facilities**
- **City of Seattle, WA**
- **MTN Group, Nigeria, Africa telecommunications**
- **Morgan-Stanley Data Center, NJ**
- **VA Hospital Temple, TX**
- **Emerald Coast Utilities Authority, Pensacola, FL**
- **Allen Memorial Hospital, Waterloo, Iowa**
- **And hundreds of Petroleum Contractors, Mechanical Contractors, Boat Yards, and Environmental Service Companies. *Just to name a few.***

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Sizing Your Fuel Filtration 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 contaminants without mixing with the clean upper phase fuel.

The 1025SS-UL is a 240 GPH system.

Example "A": One (1) 10,000 gal. tank containing a total of 7,200 gal. of product.

To filter and remove water from 25% of 7,200 gal. = 1,800 gal.

Operating 7.5 hours per day will circulate and remove contaminants from 1,800 gal. in one day.

Example "B": One (1) 5,000 gal. tanks containing a total of 4,000 gal. of product.

To filter and remove water from 25% of 4,000 gal. = 1,000 gal.

Operating 4.2 hours per day will circulate and remove contaminants in 1,000 gal. in one day.

Example "C": One (1) 1,000 gal. tank containing a total of 900 gal. of product.

To filter and remove water from 25% of 900 gal. = 225 gal.

Operating less than one hour per day will circulate and remove contaminants in 225 gal.

1025SS-UL TECHNICAL SPECIFICATIONS:

- Maximum Fuel Tanks Served: One AST
- Maximum lift: 16 feet
- Working pressure fuel: max. 40 PSI
- Maximum Flow rate: 240 Gallons per hour *
- Water Trap: standard
- Width: 22" Depth: 9" Overall Height 27"
- Pump: Cast bronze, Gear, 4GPM, 115/230V 50/60Hz
- Inlets/Outlets: 3/4"
- Vacuum Gauge: Analog HMI
- Primary Filter: 10 micron
- Water Coalescer: Micro-glass (Mil-type)
- Water Separator: Perforated metal/Teflon
- Pressure Gauges: Analog HMI

Alarms:

- High water in separator
- Primary filter change required
- Fluid in sump
- System off

Options:

- Heated equipment enclosure.
- Installation Kits with drop pipe, tank flanges, flexible pickup tubes.
- Telescopic fluid pickup tubes.
- GSM Modems for fuel condition reporting

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