

Product Description

The FRS 660-11 Fuel Recirculating System is designed to automatically circulate and clean fuel at 11 GPM in a single storage tank on a pre-programmed schedule without the use of filter elements.

The FRS 660-11 utilizes RCI patented fuel purification technology, which contains no filters or moving parts. It is used as primary fuel purification and removes 100% of all free water, including emulsified water and up to 98% of the normal solid or particulate contaminants found in fuel, including sludge and algae to approximately 10 microns. The filters found on diesel engines provide the secondary and final fuel filtration to 2 - 5 microns.

The System consists of a RCI FP 1000-S Fuel Purifier, a continuous duty motor and fuel pump, programmable pump controller, check and ball valves, leak and water detection, system alarm and shut off controls.

The FRS 660-11 is “factory assembled” and enclosed in a NEMA 3R weatherproof cabinet with keyed locks. The cabinet includes an exterior mounted “keyed” pump control selector with gasketed window in the door for observation of system status and alarm lights. It also contains isolated compartments for mechanical and electrical components. Two external ports are provided for connection of field plumbing.

All FRS 660 systems are designed for use with fuel oils (class II or III combustible liquids having a flash point of 100 F or higher). Multi tank operations are available. While not necessary, an additional 2 micron filter can be added as an option to meet certain specifications.

Standard Features:

Cabinet

- Cabinet Dimensions: 56" W x 42" H x 12" D
- App. Shipping Weight: 450 lbs
- Rating: NEMA 3R, Weatherproof
- Construction: Dual Entry Doors, Heavy Duty Powder Coated Steel (Full Welds)
- Compartments: (2) Mechanical and Electrical
- U.L. Location Rating: Ordinary, Non-hazardous
- Observation Window: Gasketed Plexiglas
- Fuel Leak Basin: Integral
- Plumbing and Wiring: Pre-assembled and Tested

Controls

- Pump Controller Type: Digital Timer
- Controller Location: Mounted on the Interior of the Cabinet
- Power Requirements: 110-1-60 VAC, 13.4 amp, 1 phase, 60 Hz
- Pump Control Selector: Manual On / Manual Off / Automatic
- Selector Location: Mounted on Exterior of Cabinet Door
- Information Lights: Power Available
Pump-Running
- Alarm Lights: Fuel Line Leak
“High” Water Present in Purifier
- Audible Horn for High Water: 90 dbls
- Auto Shut-off: Pump Failure
Leak Detection

Fuel Purifier

- Model Number: FP 1000-S Fuel Purifier
- Normal Flow: 40 GPM
- Decontamination Unit: FM 2000
- Water Drain Valve: 1" Brass
- All Water Removal: 100%
- Primary Particulate Removal: 98% to approx. 10 micron
- Secondary Particulate Removal: Provided by Engine Mfg (5 microns)
- Final Particulate Removal: Provided by Engine Mfg (2 microns)



Pump

- Pump Type: (1) Positive Displacement Pump
- Product Type: Diesel Only
- Rate: 11 GPM @ 100 psi (120 GPH)
- Pump Lift: 20 feet max.
- Fluid Viscosity: 50 – 100 SSU
- Housing: Aluminum
- Gears: Steel
- Shaft: Hardened Steel
- Pressure Relief Valve: 15 psi
- Shaft Coupler: Flexible, self-aligning
- Fuel Line Inlet / Outlet: (2) 1" Dia.
- Check Valve: (1)
- Shut-off Valve: (2) Manual ½" Dia., Bronze

Pump Motor

- Horse Power: 1.0 HP
- Power Requirements: 115-1-60 ODP (208/230-1-60 ODP)
1 phase, 60 Hz, 13.4 amps
- Pump Motor Starter: 20 amp, single pole, circuit breaker
- Gears: Steel
- Construction: Hardened Steel
- Pressure Relief Valve: Open drip proof
- Overload Protection: Integral



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