



FRS 660-5-OF-UL

Fuel Recirculating System Specification Sheet Designed for Single Tank System / 5 GPM Complete System is NEMA 4X UL 508A Listed

PRODUCT DESCRIPTION:

The FRS 660-5 OF-UL (*Single Tank Unit*) Fuel Recirculating System is **UL 508A Listed and Green Clean Certified**. It is designed to automatically circulate and clean fuel at 5 GPM for a single storage tank on a preprogrammed schedule.

The FRS 660-5-OF-UL utilizes **RCI Technologies 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 control system is mounted on a panel which is placed in a customer supplied enclosure. The system consists of an RCI Universal Fuel Purifier, a continuous duty motor and fuel pump. The system is PLC controlled, with an Operator Interface Touch Panel that allows for system programming and alarm monitoring. Automatic controls are governed by a programmable 7 day, 24-hour real time clock with user definable start and run times. Relay alarm outputs include: pump failure, purifier high water level and system high pressure. Standard internal relays allow alarm status to be remotely monitored.

All electrical components and connections are housed within **NEMA4X** panels. FRS Systems are designed for use with all Class II or III combustible fuels having a flash point of 100° F or higher. Multiple tank operations are available



All RCI Systems are cycle and leak tested for a minimum of 2 hours prior to shipment.

STANDARD FEATURES:

System:

- Listing: **UL 508A**
- Approx. shipping weight: 240 lbs
- Power Requirements: Standard: 115 or 230 VAC, 60Hz, 1Ph (*Please Specify*)

Wall Mount:

- Dimensions: 36" W x 36" H x 12" D
- Rating: **NEMA 4X**
- Mounting: Wall mounted (*Wall Mounting Tabs Included*)
- Pressure Switch: Factory set at 75 psi
- Plumbing and Wiring: Factory assembled and tested

Controls

- System Controller: **UL 508A** Standard PLC
- Operator Interface: 6" Monochrome Touch Screen Panel
- System Data Display: Touch Screen Interface

Location:

- PLC Controller: In **NEMA 4X** Poly Pro Enclosure
- H/O/A Keyed Selector & Summary Light Combination: On **NEMA 4X** Poly Pro Enclosure
- Test Reset Alarm Button: On **NEMA 4X** Poly Pro Enclosure
- Audible Horn: On **NEMA 4X** Poly Pro Enclosure

Fuel Purifier:

- Model Number: FP 700 Fuel Purifier
- Normal Flow: 7 GPM
- Water Removal: 100%
- Decontamination Unit: BIO-MAG ½"
- Water Drain Valve: 1/2" Brass
- Particulate Removal:
 - Primary: 98% to approx. (*10 micron*)
 - Secondary: Provided by Engine Mfg (*5 micron*)
 - Final Removal: Provided by Engine Mfg (*2 micron*)

Pump:

- Type: Positive Displacement Pump
- Product to pump: Diesel Fuel
- Pump Rate: 5 GPM
- Pump Housing: Aluminum
- Pump Gears: Steel

Pump Motor:

- Horse Power: 1/3 H.P.
- Enclosure: TEFC
- Frame: 56C
- Duty: Continuous
- Type: Capacitor Start

Plumbing:

- 2 pcs. Brass ½" Manual Ball Valves (*Fuel Line Input/Output*)
- 1 pc. 1/2" Y Strainer
- 1 pc. Brass ½" Check Valves
- 3 pcs. Brass ½" Unions
- 1 pc. Pressure Switch

NOTE: For options/upgrades, see Options List. Specifications subject to change without notice.