



FRS 660-11-OF-UL

Fuel Recirculating System Specification Sheet

Designed for Single Tank System / 11 GPM

Complete System is NEMA 4X UL 508A Listed

PRODUCT DESCRIPTION:

The FRS 660-11-OF-UL Fuel Recirculating System is **UL 508A Listed**. It is designed to automatically circulate and clean fuel at 11 GPM for a single storage tank on a preprogrammed schedule.

The FRS 660-11-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 99.9% 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: 390 lbs
- Power Requirements: Standard: 115 or 230 VAC, 60Hz, 1Ph *(Please Specify)*

Wall Mount:

- Dimensions: 48" W x 42" H x 12" D
- Rating: **NEMA 4X**
- Mounting: Wall mounted
- 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 1000 Fuel Purifier
- Normal Flow: 40 GPM
- Water Removal: 100%
- Decontamination Unit: BIO-MAG 1"
- 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: 11 GPM
- Pump Housing: Aluminum
- Pump Gears: Steel

Pump Motor:

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

Plumbing:

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

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