



FRS 660-40-RPU-UL

Fuel Recirculating System Specification Sheet Designed for Remote Pump Tank System / 40 GPM Complete System is NEMA 4X UL 508A Listed

PRODUCT DESCRIPTION:

The FRS 660-40-RPU-UL (*Remote Pumping Unit*) Fuel Recirculating System is **UL 508A Listed** and **Green Clean Certified**. It is designed to automatically circulate and clean fuel in a single storage utilizing the customers' existing pumps on a preprogrammed schedule. 40 GPM flow rate is provided through the FP 1000 fuel purifier.

The FRS 660-40-RPU-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 housed in a **NEMA 4**, key lockable enclosure. The system consists of an RCI Universal Fuel Purifier, PLC controller and 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. Optional Modbus RTU output is available. Customer interface, dry contacts 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: 200 lbs
- Power Requirements: Standard: 115 or 230 VAC, 60Hz, 1Ph (*Please Specify*)

Cabinet:

- Dimensions: 42" W x 36" H x 12" D
- Rating: **NEMA 4**
- Construction: Dual Door, Heavy Duty Powder Coated Steel (*white*)
- Mounting: Suitable for floor or wall mounting (Wall and Floor Mounting Tabs Included)
- Security: Individually Keyed Lock
- Fuel Leak Basin w/ Drain: Integral
- Leak Float Switch: 1/8" Liquid Detection
- 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: Exterior of Front Door
- Test Reset Alarm Button: Exterior of Front Door
- Audible Horn: Exterior of Front Door

Fuel Purifier:

- Model Number: FP 1000 Fuel Purifier
- Normal Flow Rate: 40 GPM
- Water Removal: 99.9%
- 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*)

Plumbing:

- 2 pcs. Brass 1" Manual Ball Valves (*Fuel Line Input/Output*)
- 1 pc. 1" Y Strainer
- 1 pc. Brass 1" Check Valves
- 1 pc. Brass 1" Union
- 1 pc. Brass 1" Flow Meter
- 1 pc. Combination Flow Meter / Pressure Switch

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