

FRS 660-RPU Fuel Recirculating System Specification Sheet

Product Description:

The FRS 660-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 without the use of filter elements.

The FRS 660-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 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 housed in a **NEMA 4 UL** listed, key lockable enclosure. The system consists of an RCI Universal Fuel Purifier, and is PLC controlled. Alarm logging to indicate pump failure, purifier water level sensor, system pressure switch, and inner-panel fuel leak alarms. Customer interface, dry contacts allow alarm status to be remotely monitored.

All FRS Systems are designed for use with all class II or class III combustible fuels having a flash point of 100° F or higher. Multiple tank operations are available. While not necessary, an additional 2-micron fuel filter can be added as an option to meet certain specifications.



FRS 660-RPU 

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: 110 Volts, 1 Ph, 60 Hz., 20 amps

Cabinet:

- Dimensions: 36" W x 36" H x 12" D
- Cabinet Key Lock: Included
- Mounting: Suitable for floor or wall mounting
- Rating: **NEMA 4**
- Construction: Single Door, Heavy Duty Powder Coated Steel (*white*)
- Security: Individually Keyed Lock
- Fuel Leak Basin w/ Drain: Integral
- Leak Float Switch: 1/8" Liquid Detection
- Pressure Switch: 3 to 100 psi switch (*factory set at 75 psi*)
- Plumbing and Wiring: Factory assembled and tested

Controls:

- System Controller: H/O/A Keyed selector switch, push to test alarm acknowledge amber indicator.
Audible alarm buzzer.
6" Operator interface (*monochrome*)
- Location of:
 - H/O/A Keyed Selector Exterior of Front Door
 - Audible Horn Exterior of Front Door
 - Test Reset Alarm Button Exterior of Front Door
- Pressure Switch: 3 to 100 psi switch (*factory set at 75 psi*)
- Float Switch: Leak Detection (*inside enclosure*)

Fuel Purifier:

- Model Number: FP 1000 Fuel Purifier
- Normal Flow: 40 GPM
- Water Removal: 100%
- Decontamination Unit: FM 2000
- 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)
- **OPTIONS:**
 - Heater
 - Automatic Water Drain Kit
 - 2 Micron Spin-On Filter

Plumbing:

- 2 pcs. Brass 1" Manual Ball Valves (Fuel Line Input/Output)
- 2 pcs. Brass 1" Check Valves
- 3 pcs. Brass 1" Unions
- 1 pc. Brass 1" Priming Tee
- 1 pc. Brass 1" Flow Meter

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



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