



FRS 660-60-UL

Fuel Recirculating System Specification Sheet Designed for Single Tank System / 60 GPM Complete System is NEMA 4 UL 508A Listed

PRODUCT DESCRIPTION:

The FRS 660-60 UL (*Single Tank Unit*) Fuel Recirculating System **UL 508A Listed** and is a **Green Clean Certified**, packaged, pre-engineered, integrated system of controls, fuel-cleaning equipment, and accessories pre-plumbed and pre-wired. The system provides the user with the reliability of job engineered, system matching components, and factory assembled systems.

The FRS 660-60 UL a high volume skid style system suitable for pad mounting. The System consists of a RCI FP 1500 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 660-60 UL utilizes RCI patented fuel purification technology, which contains no filters or moving parts. It removes a minimum of 99% 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.

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: 2,450 lbs

Cabinet:

- Dimensions: 30" W x 30" H x 8" D
- Total Skid Dimensions 94" x 40" x 64"
- Shipping Dimensions 109" x 53" x 81"
- Rating: **NEMA 4**
- Construction: Heavy Duty Powder Coated Steel

- Fuel Leak Basin w/ Drain: Skid (*full welds*)
Integral
- Plumbing and Wiring: Factory assembled and tested

Controls:

- Pump Controller Type: Digital Timer
- Controller Location: Mounted on Cabinet Interior
- Power Requirements: 230VAC/60 Hz, 17 amp
- Pump Control Selector: Manual On / Manual Off / Automatic
- Selector Location: Mounted on Exterior 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 1500 Fuel Purifier
- Normal Flow: 90 GPM
- Water Removal: 99.9%
- 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*)
 - Pressure Relief Valve: Factory assembled

Pump:

- Type: (1) Positive Displacement Pump
- Product to pump: Diesel Fuel
- Pump Rate: 60 GPM at 100 psi (*3600 GPH*)
- Pump Lift: 40 feet maximum
- Fluid Viscosity: 50 – 100 SSU
- Pump Housing: Aluminum
- Pump Gears: Steel
- Shaft: Hardened Steel
- Pressure Relief Valve: Factory set at 100 psi
- Shaft Coupler: Flexible, self-aligning
- Y Strainer: (1) 3"
- Check Valve: (1)
- Shut Off Valve: (1) Manual 3" Dia., Bronze, Inlet
(1) Manual 2" Dia., Bronze, Outlet

Pump Motor:

- Horse Power: 10 H.P.
- Power Requirements: 480 Volt, 3 Phase, 60 Hz, 17.0 amps
- Pump Motor Starter: 25 amp, single pole, circuit breaker
- Gears: Steel
- Construction: Hardened Steel
- Pressure Relief Valve: Open drip proof
- Overload Protection: Integral

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