



# FRS 660-150-UL

## Fuel Recirculating System Specification Sheet Designed for Single Tank System / 150 GPM Complete System is NEMA 4 UL 508A Listed

### PRODUCT DESCRIPTION:

The FRS 660-150 UL (*Single Tank Unit*) Fuel Recirculating System is **UL 508A Listed and 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 660-150 UL a high volume skid style system suitable for pad mounting. The System consists of a RCI FP 3000 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 660-150 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: 2,500 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 Skid (*full welds*)
- Fuel Leak Basin w/ Drain: Integral
- Plumbing and Wiring: Factory assembled and tested

#### Controls:

- Pump Controller Type: Digital Timer
- Controller Location: Mounted on Cabinet Interior
- Power Requirements: 230/460 VAC / 60 Hz, 60 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 3000 Fuel Purifier
- Normal Flow: 200 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: 150 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: 20 H.P.
- Power Requirements: 460 Volt, 3 Phase, 60 Hz, 60.0 amps
- Pump Motor Starter: 55 amp, 3 Pole
- 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.*