

# FRS 660-60 Fuel Recirculating System Specification Sheet

## Product Description:


The FRS 660-60 UL is a 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 FRS 660 Series Systems are designed for use with fuel oils (class II or III combustible liquids having a flash point of 100° F or higher). Multi tank operations are available. While not necessary, an additional 2 micron filter can be added as an option to meet certain specifications.



FRS 660-60 

## Standard Features:

### System:

- Listing: **UL 508A**
- Approx. shipping weight: 900 lbs
- Power Requirements: Standard: 230 VAC, 60Hz, 1Ph (*Please Specify*)

### Cabinet:

- Dimensions: 24" W x 24" H x 10" D
- Total Skid Dimensions: 59" x 28" x 67"
- 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: 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: ½" 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: 20 feet maximum
- Fluid Viscosity: 50 – 100 SSU
- Pump Housing: Aluminum
- Pump Gears: Steel
- Shaft: Hardened Steel
- Pressure Relief Valve: 15 psi
- Shaft Coupler: Flexible, self aligning
- Fuel Line Inlet/Outlet: (2) 3" Dia. (*Note: in line strainers recommended – provided by others.*)
- Check Valve: (1)
- Shut Off Valve: (2) Manual 3" Dia., Bronze

### Pump Motor:

- Horse Power: 5 H.P.
- Power Requirements: 230VAC.30.60, TEFC Motor  
2 Phase, 60 Hz, 17.0 amps
- Pump Motor Starter: 20 amp, single pole, circuit breaker
- Gears: Steel
- Construction: Hardened Steel
- Pressure Relief Valve: Open drip proof
- Overload Protection: Integral

*Note: Specifications subject to change without notice.*

