



250
ml

200

150

100

approx.vol.

Fuel Recirculating Systems

Fuel Recirculating Systems

Open
Frame

Diesel fuel begins to deteriorate as soon as it is produced. This problem poses no threat if the fuel is consumed quickly. Unfortunately, diesel fuel may be stored for years. This deterioration affects the fuel's pumpability and combustibility. Aged fuel tends to repolymerize, forming submicronic particles, causing excessive wear to injectors and injector pumps, clogged filters and sludge deposits.

You can fight the contamination battle by constantly recirculating your fuel and removing water, dirt and algae before it builds up and poses a threat to your equipment. When your fuel is free from contaminants, your equipment will show increased reliability and performance, as clean fuel burns cleaner.

Our automatic fuel recirculating system is a pre-engineered integrated system of packaged pump, motor, programmable controls and accessories that are pre-plumbed and pre-wired. The RCI Automatic Fuel Recirculating System provides the user with the reliability of a job-engineered system, matched components and

factory assembly. These systems are designed for use with fuel oil (class II or class III combustible liquids having a flash point of 100° F or higher).

RCI Technologies' FRS units are available as cabinet, open-frame or skid systems. Electrical components are built to UL standards and are contained in NEMA 4X weatherproof enclosures. External ports are provided for connection of field plumbing. The enclosure includes a drip catch basin with internal and external alarm and leak detection.

Routine circulation with the RCI Automatic Fuel Recirculating System will remove up to 99.8% of free water and up to 95% of other heavy contaminants. In addition to dramatically extending filter life and improving engine performance, it increases combustibility. Even today's "clean" diesel fuel will easily become contaminated during transportation and storage. Our patented technology keeps your fuel clean, preserves fuel quality and extends the life of your equipment.

STANDARD
SYSTEMS*

REMOTE PUMP
SYSTEMS*

All RCI units are cycle and leak tested for a minimum of 2 hours prior to shipment.

All Units Come Equipped with These Standard Components:

- NEMA 4 Rated System Enclosure
- Touchscreen Display
- Audible Alarm
- Visual Alarm with Reset Button
- Operator Interface HOA Switch
- Y Strainer
- Handle with Keyed Lock
- Floor and Wall Mounting Tabs
- NEMA 4 X Rated Operator Interface Compartment
- NEMA 4X Rated Electronics Compartment
- Air Purge Valve
- RCI Purifier
- Supply Line Check Valve
- Unions
- Priming Tee
- Supply Line Ball Valve
- NEMA 4 Door Seals
- Internal Locking Mechanism
- O&M Manual Holder
- Positive Displacement Pump
- TEFC Pump Motor
- Catch Basin with Drain Plug
- Leak Sensor
- Manual Water Drain Valve
- Water Sensor
- Analog Pressure Transducer
- Return Line Ball Valve
- Micro-organism Decontamination Unit
- UL 508A Standard PLC Controller

Options & Upgrades:

- Multi-Tank Option
- Duplex-Pump Option
- Stainless Steel Pipe/Fittings
- Basket Strainer-100 mesh
- Filter (1-10 microns)
- Auto Water Drain
- Chemical Injection (Auto/Manual)
- System Heater
- Stainless Steel Cabinet and Purifier
- Air Conditioning
- Ventilation Fan
- Modbus RTU or Ethernet Communication
- BACnet Communication
- LON Communication
- Modbus TCP/IP Communication
- Power Option Changes
- Remote System Stop Input
- Automated Ball Valves
- Exterior-Mounted AC Unit
- 10" Monitor
- High-Intensity Red Strobe Revolving Alarm Light
- Surge Protector
- Additional Programming
- Automatic Isolation Valves
- Custom Enclosure
- Pressure Differential Gauge (Mechanical or Electronic)





Cabinet



Skid



STYLE

POWER OPTIONS & UPGRADES**

	GPM	Standard	Open Frame	Skid	Purifier Model	TEFC Motor	Inlet/Outlet	Standard Power	Available Power Option	Power Upgrade	Dimensions	Weight†
FRS 5	5	✓	✓	✓	FP 700	1/3 hp	1/2"	120V, 1Ph	208/240V, 1Ph	208/240/480V, 3Ph	36"x36"x12"	460 lbs.
FRS 11	11	✓	✓	✓	FP 1000	1 hp	1"	120V, 1Ph	208/240V, 1Ph	208/240/480V, 3Ph	42"x48"x 13"	630 lbs.
FRS 25	25	✓	✓	✓	FP 1000	2 hp	1"	120V, 1Ph	208/240V, 1Ph	208/240/480V, 3Ph	42"x48"x 13"	574 lbs.
FRS 30	30	✓	⚡	✓	FP 1000	3 hp	1.5"	480V, 3Ph	240V, 3Ph	⚡	48"x60"x21"	875 lbs.
FRS 50	50	✓	⚡	✓	FP 1100	5 hp	2"	480V, 3Ph	240V, 3Ph	⚡	72"x60"x19"***	1520 lbs.
FRS 60-SK	60	⚡	⚡	✓	FP 2000	10 hp	2"	480V, 3Ph	240V, 3Ph	⚡	63"x94"x40"	2450 lbs.
FRS 80	80	✓	⚡	✓	FP 2000	10 hp	2"	480V, 3Ph	240V, 3Ph	⚡	81"x109"x53"	2400 lbs.
FRS 150-SK	150	⚡	⚡	✓	FP 3000	20 hp	3"	480V, 3Ph	240V, 3Ph	⚡	63"x94"x40"	2500 lbs.

STYLE

POWER OPTIONS & UPGRADES**

	GPM	Standard	Open Frame	Skid	Purifier Model	TEFC Motor	Inlet/Outlet	Standard Power	Available Power Option	Power Upgrade	Dimensions	Weight†
FRS 7	7	✓	✓	⚡	FP 700	Provided by Others	1/2"	120V, 1Ph	⚡	⚡	42"x36"x13"	500 lbs.
FRS 40	40	✓	⚡	⚡	FP 1000	Provided by Others	1"	120V, 1Ph	⚡	⚡	42"x36"x13"	435 lbs.
FRS 90	90	✓	⚡	⚡	FP 1100	Provided by Others	2"	120V, 1Ph	⚡	⚡	72"x60"x13"***	1075 lbs.

*Custom units are available. | **60Hz is standard for all units. | ***Cabinet with legs.
 † All weights are approximations, Open Frame units will weigh less than shown.





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