Fuel Management Systems

Inside:
• Fuel Transfer Pump Sets
• Fuel Filtration Sets
• Pump and Day Tank Sets
• Fuel Oil Handling Systems
• Fuel Oil Additives and Treatments
• Fuel Oil Specialties
• Waterproof Pumps
Preferred Utilities designs Fuel Management Systems to continuously monitor and control fuel levels, provide leak detection and alarms for double wall tanks and piping sumps, as well as control fuel pumps and valves for boiler and emergency generator fuel system applications.

These control systems—when integrated with Preferred Utilities’s day tanks, pump sets, and fuel filtration sets—eliminate the installation problems that arise when multiple suppliers are involved. Single-source responsibility assures seamless interface and improved overall system performance.

Typical applications include multiple day tank systems, multiple main storage tank systems, remote fill systems, automatic tank selection and sequencing, and automatic filtration.

No matter what the application is, trouble free installation and operation are assured when fully engineered systems are packaged and supplied by Preferred Utilities.

The Model ATPS Automatic Fuel Oil Transfer Pump Set (ATPSF) is a revolutionary duplex pump sequencing and monitoring system. This system includes automatic Lead/Lag pump features that improve fuel system availability and uptime.

A pump set mounted LCD display is used to monitor day tank and pump set status and alarms. A 10-inch operator touch screen controller is available.

The Model PF Automatic Fuel Oil Filtration Sets are the most complete, efficient, and reliable engine protection systems one can install. These self-contained, fully automatic systems remove water, suspended rust, sludge, dirt, and other contaminants in order to maintain the quality and purity of your stored diesel fuel.

The Fuel Oil Transfer Pump and Day Tank package provides a local supply of distillate or diesel fuel for boilers, emergency generators, or other stationary engine driven or oil-fired equipment. This complete package includes our UL approved Model DT Day Tank, supply and/or return pump(s), and a PLC-based NEMA 4 control cabinet.
Waterproof Pumps
Model WP 100-200*

Preferred’s WP Series Waterproof Pump enclosures include the pump and motor assembly, a Preferred HD-A2 discriminating oil/water leak detector, a sealed high voltage wire and conduit pigtail, and a sealed low voltage wire and conduit pigtail. Available in pump sizes LO-100 to LO-205 (20 to 1100 gph).

The balance of the typical oil pump set—suction strainers, hand valves, relief valves, and pump controls, can be mounted with the pumps or installed upstairs above levels subject to flooding. Preferred integrates all AT-PSF- and SATPSF-style pump accessory sets with our new waterproof pump enclosures, providing a complete mission critical system.

Typical WP Installation Diagram

Why Custom?
Custom applications ensure the highest reliability and maximum uptime.

By collaborating closely with our engineers, you can build a solution tailored to your application.

And don’t worry—we’ll make sure it meets all modern requirements.

Ordering Information - select model number from the table below.

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<th>Catalog Number</th>
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Specifications subject to change without notice. Pump & motor assemblies ratings are nominal at pressures shown with maximum 10” Hg vacuum at pump inlet.

Preventative Maintenance Additives
Our fuel oil additives can help break up water droplets and disperse sludge to improve filtration efficiency, increase boiler and engine performance, and increase overall reliability.

Removing unwanted water from fuel tanks helps prevent corrosion, prevent leaks, and lengthen tank life. When ordered with the CA-1 option, Preferred filtration systems will store and automatically inject measured quantities of fuel additives to help keep tanks free of sludge and water buildup.

Field Maintenance and Service
Behind every successful system implementation stands Preferred’s highly trained staff of service engineers. We offer expert field service for the commissioning of both new systems and the routine maintenance of existing systems.

In addition to our staff of field service engineers, our factory authorized representative companies maintain service departments to provide prompt local service.

We offer regular technical and product training sessions at our Danbury, Connecticut headquarters.
Fuel Oil Specialties

The Model A Anti-Syphon Valve reduces fire hazards and prevents oil spills by automatically shutting off the oil flow in the event of a broken or otherwise open oil suction line, as required by NFPA 30 Flammable and Combustible Liquids Code. The Model A is UL approved.

Our Model 110 Oil Lever Gate Valve is used in fuel oil piping systems to provide automatic shut-off of the fuel flow in the event of a fire. This valve’s operation is fully mechanical and is independent of the electrical power supply. The emergency fuel line shut-off is mandated by many codes.

Preferred Utilities’s Poppet Foot Valves are designed to keep the suction line to the pump set primed by preventing the flow of oil back into the tank when the pumps are off. Preferred Utilities’s pressure gauges are bottom connected with either a stainless steel or black steel shatterproof, heat resistant, polycarbonate lens.

Our Pressure Regulating and Reducing Valves are self-operated and spring-loaded with a cast iron body and stainless steel trim.

Our Simplex and Duplex Oil Strainers are designed for applications where easy maintenance and large capacity straining are required.

Standard Specialties from our Catalog

We also provide a wide selection of fuel oil specialties. You’ll see many of these parts built into our complete fuel management systems.