

Pryco's Duplex Alternating Fuel System (option 427A) is one of our most popular features that we incorporate into a fuel supply system. It solves the problems of a keeping up with fuel consumption by providing a redundant back-up system, and reducing wear and tear on pumps and motors by cycling roles between the two.

LEAD/LAG CONCEPT

The first time power is applied to the overall system, an alternating switch will place one of the pumps (we'll refer to it as physical pump #1) into the primary or "LEAD" position. (Physical pump #2 is assigned secondary or "LAG" position). The next time fuel is required, physical pump #2 is switched up into lead position and physical pump #1 falls to secondary duty. These two physical pumps will alternate in and out of lead/lag positions each time fuel controls call for fuel to be pumped into the tank.

KEEPING UP WITH FUEL CONSUMPTION

Normally, both pumping systems are singularly sized to the demands of the consuming unit (generator, boiler, etc.). If for some reason the consuming unit requires more fuel than the LEAD pump can supply, the LAG pumping system would switch on to assist the LEAD pump until the fuel level reaches a 100% useable fuel capacity level, at which time, both LEAD and LAG pumps are turned off. The normal "ON" fuel level for the LEAD pump is 86% and the level where the assisting LAG pump kicks in is 82% useable fuel capacity.



A 427A Duplex Pumping System That Is Remote Pumping Unit Mounted



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PUMP/MOTOR VARIETY & APPLICATION

We can use almost any variety of pump flow rates or motor voltages with the option 427A. It can even be configured on reverse flow systems, Remote Pumping Units or virtually whatever can be imagined.

