

Service Bulletin

#FRSB0010

Date of Bulletin: June 2, 2006
Effective Date: June 15, 2004
Pump Series Affected: 1200, 2400, 4200, 4400, 600, 300 and 700 Series
Affected Components: N/A
Subject: E85 and Bio-diesel compatibility
Reference: N/A
Issuing Authority: Engineering, Sales

Got E85 or Bio-diesel? No problem!

Fill-Rite fuel transfer pumps and meters are currently designed to handle a maximum blend ratio of 20% bio-diesel oil to 80% petroleum-based diesel fuel. This mixture of fuels is known as B20. Conversion kits are available to make Fill-Rite pumps compatible with bio-diesel blend ratios from above 20% (B20) all the way up to the 100% concentrate (B100) and also for E85 fuel. These conversion kits and their part numbers are listed below. The list prices appear on page 3 of the 2005-6 Fill-Rite Repair Kits, Parts, and Accessories price book.

Please note that the conversion kit is only needed when pumping bio-diesel in a concentration over 20%. Concentrations of 20% (B20) or less do not require a conversion kit. **CAUTION:** pumping bio-diesel ratios above 20% or E85 fuel without a conversion kit will result in shortened pump and meter life and premature failure of seals for Fill-Rite products, thus voiding the product warranty. Always use the recommended conversion kit when pumping these fuels.

- Conversion kit for the FR700 pump: 700KTG9179
- Conversion kit for the FR300 and FR310 pumps: 300KTG9180
- Conversion kit for all Series 1200, 2400, 4200, 4400, 600, SD1200, and SD600 pumps less meters: 1200KTG9181

Note: These kits make Fill-Rite pumps compatible only with vegetable based bio-diesel. These kits are not intended for use with bio-diesel derived from animal fat. Also, the kits can not ensure that bio-diesel can be pumped at temperatures below 50 degrees Fahrenheit as this is the point at which it begins to thicken.

Meters- Series 800 and 900 meters on pumps like FR701, FR310, FR1211, FR4211, etc. will corrode when exposed to E85. You must use Fill-Rite nickel-plated meters for use with E85 and concentrations of bio-diesel greater than B20. Fill-Rite nickel-plated meters have compatible o-rings and seals.

Filters- Remember there will be some reduction in flow rate when pumping bio-diesel due to the higher viscosity. To ensure maximum flow rate, use 30-micron filters whenever possible, especially in cooler weather when diesel fuel viscosity will be the highest.

It is also important to note that a nickel-plated manual nozzle is also available (part number 6U075N). This nozzle is compatible with both E85 and bio-diesel.

The only component of Fill-Rite pumps that is not compatible with E85 or bio-diesel is the hose. Use a Fluorocarbon (Viton) hose for use with these liquids.

If you have any questions, please feel free to contact any of our Customer Service Representatives at 800 634-2695 or email us at fillritesales@fillrite.com.



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