Want to make sure your site is ready for Diesel Exhaust Fluid? Let us help you and understand the latest options.
COMPLETE SYSTEM SOLUTIONS FOR DIESEL EXHAUST FLUID

Franklin Fueling Systems offers a complete system of DEF compatible products all from a single manufacturer. Our system is designed together -- to work together, resulting in unmatched system performance for you. Our recirculation system provides an energy efficient means of keeping DEF from freezing at low temperatures with a complete lineup of components manufactured from premium compatible materials.

Because DEF will freeze at around 12° F (-11° C), no DEF system is complete without a means to prevent this fuel additive from freezing in the lines and costing you loss of potential sales.

- We network our powerful TS-550 evo™ fuel management system to temperature sensors placed within the product pipelines.
- When underground temperatures drop, the system triggers the pump to recirculate the fluid – preventing it from freezing in the lines.
- Your station stays open and the system only runs when it needs to.

Let’s face it, heated pipework systems are expensive. Our DEF recirculation system allows you to use our standard APT™ brand XP pipework system solutions including stainless steel fittings, rigid entry boots, and split test boots.

- By using the economical XP pipework system you can save as much as 30% in equipment costs.
- There are no new tools to purchase or new pipework installation methods to learn with this proven system.

Instead of turning on a heated-pipework system at the beginning of winter and constantly running it, the temperature sensors in the DEF recirculation system will trigger the system to only run when it’s absolutely needed.

- With no need to constantly heat the entire system, the system only consumes energy as needed.
- Avoid high energy bills during the colder winter months.
- The system will adjust automatically adjust to fluctuating temperatures.

Our FE Petro™ brand DEF submersible turbine pump (STP) kits come complete with everything you need for pumping DEF including a pump motor assembly built just for DEF applications.

- Designed to perform at maximum efficiency no matter the throughput.
- Includes everything you need in a pre-configured package for ease of ordering and installation.
- Output caters to both large and small sites without excessive nozzle pressure.

All compatible hardware products are composed of DEF compatible materials including stainless steel and various elastomers.

- DEF flexible connectors allow you to easily connect the pipework system to the STP and make disconnection for maintenance fast and easy.
- DEF shear valves shut off the flow of product in the event of a vehicle collision, preventing release.
- Just like fuels, DEF needs to be ventilated. Our extractor vent valves provide compatible ventilation.

Our complete diesel exhaust fluid hanging hardware solution includes everything you need to safely dispense DEF and protect you and your customers from costly mis-fills.

- Available with a mis-fill prevention spout, our nozzle will prevent dispensing in non-DEF fill pipes, eliminating potentially costly contamination.
- DEF hoses feature anti-kink sleeves on both ends to prevent accelerated wear prolong hose's service life.
- DEF in-line break away solutions provide protection from drive-offs.

The DEF recirculation system utilizes the powerful rules engine inside the TS-550 evo™ to give you complete control of how your DEF system operates.

- You have the flexibility of writing your own rules for automated recirculation based on your climate.
- The powerful fuel management system provides valuable data including system status, product levels, and usage.
- Monitor your complete fuel system remotely on a PC or mobile device as well as receive timely system notifications.

The flow of the system

We use a discharge line to pump DEF from the storage tank, through each dispenser, and ultimately return back to the tank through a return line. A tee configuration (above) is used at the furthest dispenser from the tank.

- The temperature sensor is installed into the APT™ pipework system using a tee pipework configuration.
- This allows the sensor to come into direct contact with the DEF all times, providing accurate temperature readings.
- The tee and in-line pipework components are available as kits.

Lower equipment costs

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