

Specification: Diesel Fuel Primary Day Tank

A. Manufacturer Qualifications

Manufacturer shall have a minimum ten years' experience in the design and construction of Underwriters Laboratories (UL) listed day tank systems.

B. Construction

Day tank shall be Tramont Model TRX or approved equivalent, and constructed in accordance with Underwriters Laboratories Standard UL-142. The day tank shall also be constructed in accordance with Flammable and Combustible Liquids Code, NFPA 30; and The Standard for Installation and use of Stationary Combustible Engine and Gas Turbines, NFPA 37. Day tank shall be made of heavy gauge steel construction. Tank shall be coated with rust inhibitor inside, primed and finish painted outside. Required tank connections include:

- 1" NPT engine supply
- 1" NPT engine return
- NPT fitting for emergency vent, sized as appropriate.
- 1" NPT overflow.
- 2" NPT normal vent
- 4 ½" square inspection port with manual fuel level gauge and manual fill cap

It shall be provided with atmospheric (normal) vent cap with screen and appropriately sized zinc-plated emergency vent cap. Emergency vent cap shall be spring-pressure operated. Opening pressure shall be 0.5 psig; full opening pressure shall be 2.5 psig. Limits shall be marked on top of each vent.

C. Fuel Containment Basin

The day tank shall include a welded steel containment basin to prevent escape of fuel into the environment in the event of a tank rupture. Rupture basin (indoor applications only): The basin shall consist of an open-top, welded heavy gauge steel structure sized at a minimum of 150% of the tank capacity. The basin shall be primed and finish painted. Double wall basin (outdoor applications and indoor applications where required by local codes): The basin shall consist of a welded heavy gauge steel structure sized at a minimum of 150% of the tank capacity. The exterior of the basin shall be primed and finish painted. The basin shall include a welded steel top with an appropriately sized NPT fitting for emergency vent, and appropriately sized zinc-plated emergency vent cap. Emergency vent cap shall be springpressure operated. Opening pressure shall be 0.5 psig; full opening pressure 2.5 psig. Limits shall be marked on top of each vent.

D. Leak Detection System

A rupture basin leak detector switch shall be wired into the electronic control module (ECM). This will shut down the supply pump and motor in case of a fuel leak into the containment basin.