

# Specification:

## Diesel Fuel Trailer w/ Integral Sub base Tank



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### Specification: Diesel Fuel Trailer with Integral Sub Base Tank

#### A. Manufacturer Qualifications

Manufacturer shall have a minimum ten years' experience in the design and construction of Underwriters Laboratories (UL) listed sub base tank systems. Trailer/sub base tank unit shall be Tramont approved equivalent.

#### B. Trailer Design and Construction

Trailer shall include integral sub base (generator base) tank. See sections C - H below for tank construction and testing specifications. Trailer design and construction shall include the following:

- Tandem axle
- Load rated for lbs.
- All steel heavy formed channel construction (tongue and side).
- Integral cross-members at gen-set mounting points.
- Trailer tongue is bolt-on extension of side channels with a cross member providing triangulation support point for standard tongue jack and continuing to an adjustable hitch.
- Heavy duty tongue jack.
- Fenders constructed of formed steel and bolted to side channels. Non-skid material on top surface of fenders.
- Torflex hydraulic or electric brake axle bolted to trailer frame.
- 15" or 16" tire and wheel assemblies to conform to axle ratings.
- Adjustable height ball coupler 2 5/16" ball or 3" pintle eye.
- Heavy duty safety chains, including slip hook.
- Two 5000 lb. rear stabilizer jack stands bolted to rear cross member.
- ICC lighting with (6) wire connector. Electrical components meet

Department of Transportation requirements, including rear tail lights, reflectors and wire harness.

- Optional tongue-mounted, waterproof hinged and gasketed cable storage box. Storage box includes lockable side-mounted hasp.
- Trailer and accessories are chemically cleaned. Trailer finished with epoxy primer coat and gloss black acrylic enamel paint.

#### C. Sub Base Tank Construction

Sub base tank shall:

- Be Tramont or approved equivalent.
- Be constructed in accordance with Underwriters Laboratories Standards..
- Be constructed in accordance with Flammable and Combustible Liquids Code, NFPA 30; The Standard for Installation and use of Stationary Combustible Engine and Gas Turbines, NFPA 37; and The Standard for Emergency and Standby Power Systems, NFPA 110.
- Be rectangular in shape.
- Include reinforced steel box channel for generator support, with load rating of 5,000 lbs. per gen-set mounting hole location. Full height gussets shall be provided at gen-set mounting holes.
- Be pressure washed with an iron phosphate solution. Interior shall be coated with a solvent-based film rust preventative, providing inter-operational protection, and primed and finish painted with gloss enamel paint.
- Be shipped with a certificate of Structural/Mechanical Integrity, certifying that it has met UL standards through rigorous testing and has demonstrated specified capabilities.

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### D. Sub Base Tank Testing

Primary tank sections shall be pressurized at 3-5 psi and leak-checked to ensure integrity of sub base weld seams. Containment basin shall be leak-checked by means of weld penetrant and ultraviolet light.

### E. Sub Base Tank Fittings

The sub base tank shall include the following fittings:

- Appropriately sized NPT fuel supply
- Fuel return fitting
- 2" NPT for normal vent
- NPT for emergency vent, sized as appropriate
- 2" NPT for manual fill
- NPT for level gauge, sized as appropriate
- 3/8" NPT basin drain (tank drain if single wall)
- 2" NPT for level alarm
- NPT fitting for leak detection alarm

### F. Fuel Containment Basin

Sub base tank shall include a welded steel containment basin, sized at a minimum of 110% of the tank capacity to prevent escape of fuel into the environment in the event of a tank rupture.

### G. Leak Detection System

A fuel containment basin leak detector switch shall be provided.

### H. Sub Base Tank Venting

**Normal venting:** Normal venting shall be sized at 2" NPT in accordance with The American Petroleum Institute Standard No. 2000, for venting atmospheric and low pressure storage tanks. Tank shall be provided with atmospheric (normal) vent cap with screen.

**Emergency venting:** The emergency vent NPT fitting shall be sized to accommodate the total capacity of both normal and emergency vents, and is not less than that derived from NFPA 30, Table 2-8, based on wetted surface area of the tank (calculated based on 100% of primary tank). A zinc-plated emergency pressure relief vent cap shall be furnished. The vent shall be spring-pressure operated. Opening pressure shall be 5 psig; full opening pressure shall be 2.5 psig. Limits shall be marked on top of each vent. A second emergency vent fitting shall be provided for the secondary containment portion of the tank if applicable.