

Advanced Double Wall UL-142 Listed Fuel Base Tank (DWFBT-UL142)

SUB-BASE FUEL TANK:

Provide a UL listed Double Wall diesel fuel storage tank. The fuel tank shall be an integral part of the enclosure/generator mounting frame and shall be installed beneath the interior floor level. Fuel tank shall have a capacity of no less than _____ gallons to provide _____ hours of run time under 100% full load conditions. Fuel tank provided shall comply with and be constructed in accordance with the requirements of Underwriters Laboratories UL-142 "Special Purpose Protected Secondary Containment Generator Base Tank"; N.F.P.A. 30, 37 & 110; Florida Department of Environmental Protection (FDEP) and the Steel Tank Institute. Complete assembly shall be manufactured using minimum 10 gauge sheet steel for both inner and outer tanks. Fuel tank and containment basin are to be leak tested at 3 PSI air as outlined in UL-142 standards. The interstitial space shall be monitored using a float type level switch and shall indicate the presences of fuel in the annular space by use of normally open contacts that are to be wired back to the generator set control panel for visual/audible indication. Fuel tank provided shall have the following devices but by no means be limited to those as specified. Fuel tank venting in compliance with NFPA and UL, 2" Manual fuel fill cap, mechanical fuel level gauge, 7-gallon overspill containment around fuel fill, high level alarm set at 90% of tank capacity, low level alarm set at 40% of tank capacity, rupture basin alarm with normally open contacts, two (2) spare 2" NPT ports with installed plug, fuel supply and return ports with full length pick-up tubes. A foot or check valve shall be installed on the generator supply to prevent loss of prime during idle conditions. A rectangular double-walled electrical stub-up area is to be provided and located directly under the generator circuit breaker to provide a pass-through for field installation of electrical load conductors. Vibration isolator mounts shall be each located above an internal tank baffles and securely welded to the top plate to ensure adequate load support. Isolator mounting plates are to be 1" thick steel plate, tapped for isolator bolting. The entire steel fuel tank, basin and interior floor shall be coated with a wear resistant, high quality anti-corrosive material and top coat. Four-point lifting provisions shall be provided on the enclosure base tank and strategically located based on the center of gravity for the specific unit to ensure a balanced even lift during rigging. Lifting provisions located on the fuel base tank shall have capacity suitable for rigging the entire assembly.

Field anchoring of the tank to the concrete pad will be accomplished with anchor plates spaced approximately on 24" centers and provided by the enclosure manufacturer with the frame and shipped loose with the enclosure package. Appropriate 3/4" anchor bolts will be provided by installing contractor.

Closed top diked, open top diked and single wall fuel tanks shall not be allowed. For tanks over 24" in height at least two set of non-corrosive stairs with handrail shall be provided by the enclosure manufacturer for installation by the contractor.