

3000 Gallon Emulsion Storage Tank

SPECIFICATIONS

- # 3,000 gallon tank manufactured of 1/4" carbon steel oriented to be mounted vertically.
- # Tank to be insulated with 3" thick foil backed foam, and then covered with aluminum sheeting for weather protection and secondary containment. Tank shall have a 24" insulated manway on the side of the tank at the bottom for access into the tank. Bottom of tank to have a 1" slope away from the manway. Insulated 3" ball valve located at the low point of the slope for easy cleanout.
- # Tank is attached to a steel support stand, which is included, that places the tank loading valves at the proper height (5'6" above the concrete pad) for gravity flow loading of trailer equipment.
- # Caged access ladder which gives easy access to the top of the tank. Top of tank is fitted with an inspection door. Safety rails on top of tank are required.
- # Tank to be equipped with 4-1000 watt 240 volt single phase heater blankets, which will be controlled by an adjustable thermostat that is accessible from ground level. All electrical components are compatible for indoor or outdoor service. Tank must have an insulated access cover over the area where the blankets are located for easy servicing if necessary.
- # Tank is equipped with two 3" ball valves for loading and unloading the tank. These valves are wrapped with 240 volt heat tape and then insulated to aid in cold weather operations. Insulation on the valves must be of silicon design and manufactured to cover the valves and be attached with buckles for ease of servicing. Valves wrapped with wool insulation and covered with aluminum held on with hose clamps will not be accepted. Valves also have provision to accept a padlock for added security. A 3" ball valve is located in the bottom of the tank to aid in clean out. Valve in bottom of the tank shall be insulated.
- # Tank to include a 8' long 3" diameter heavy duty rubber loader hose fitted on one end with a quick coupler which mates to the loading /un-loading valves, and the other end to be fitted with a steel 90 degree elbow fitting.
- # Tank includes a mechanical paddle type agitation system, which is automatically controlled by a programmable agitation timer, which is included in this proposal. Timer will be pre-programmed at the factory. Agitator should not turn at a rate exceeding 6 rpm,s to avoid whipping the emulsion and causing separation. Agitator drive can be greased from ground level without having to climb on top of the tank.
- # Tank includes a material quantity gauge, easily viewed from ground level, calibrated in 100 gallon increments
- # Tank and its components to have a one year warranty; excluding the concrete pad, incoming electrical service installation, and components which are supplied by

- independent contractors hired by the user agency (customer).
- # Seller to provide a factory trained representative to assist in the installation and final operational preparations to ready the tank for operation. This representative will also provide complete operation and maintenance training to the customer.

ITEMS TO BE SUPPLIED BY THE CUSTOMER FOR TANK INSTALLATION

- # **Concrete pad as per the following specifications:**
Pad to be 12' square, 10" thick concrete, reinforced with 1/2" rebar on 1' centers.
Four lag plates are to be installed in the concrete pad at the time of the pouring and shall be 1/2" thick steel and 14 inches square. A complete foundation description, including diagram is included on an attached page.
- # **Mobile crane or other lifting device** with a lifting height capability of 25-30 feet and a lifting capacity of 10,000 pounds at that 25-30 foot height. This lifting device will be needed to lift the tank and its stand off of the delivery trailer, move the tank into position over the pre-prepared concrete mounting pad, and finally lower the tank and stand into position on that pad.
- # **A welding machine and welder** to weld the tank stand mounting legs to the weld flanges which have been installed into the concrete stand.
- # **An electrical service line or cable** to be installed and run to the tank pad site capable of delivering 100 amps at 240 volts. This service line must meet all local codes and standards. This service line will be connected to the tank, at the appropriate time, by a qualified electrician.