



# Asphalt Relay Tanks

with Hydraulic Driven Asphalt Pump



# SPECIFICATIONS

## For Bituminous Relay Tank with Hydraulic Driven Asphalt Pump

### FUNCTION

The Etnyre Relay Tank will perform the following functions:

- a. Fill tank by Relay Tank pump from outside source.
- b. Circulate material in tank.
- c. Transfer from an outside source to another outside source without having material enter tank.
- d. Pump material back to supply source.

The circulating system is easily drained independently of the tank. Flushing the circulating system and pump requires not more than three (3) quarts fuel oil so as not to dilute tank contents.

**TANK:** 5,000/7,000 Gallon Capacity

**BASIC TANK CONSTRUCTION:** Cylindrical shape type, round, tapered 6" to rear, fabricated of minimum 10 gauge steel with round or dished heads, with all seams welded inside and outside. Single (one) compartment type with a minimum of two (2) surge plates with adequate openings to control material movement. Includes a minimum of 2 1/2 inches fiberglass insulation with spacing ribs to insure retention of heat. Tank to trailer is one piece pressed channel rolled fit welded to shell, bolt slotted mounted to eliminate stress cracking or flex damage while transporting. Tank is jacketed with light weight aluminum, minimum .050 inch thickness. 20 inch manhole with cover, 3 inch overflow, external controlled valve on unloading line, quick-coupler, 3 inch outlet, 15 foot of 3 inch flexible metal hose, hose trough, ladder to manhole platform, approximately 54 inches safety tread steel or aluminum manhole platform with raised edge, splash collar and access ladder at manhole with drain. Tank design and construction meets all applicable federal cargo tank regulations. These include 49 CFR 173.247, with consideration for hot asphalt products, and has tank (ASME#) approval number. Front and rear fenders with rear rubber mud flaps, basket tire carrier, heavy duty rear bumper, approximately 12 inch by 12 inch by 36 inch tool box with lock hasp, calibrated measure stick, a pencil thermometer and a 4 inch dial thermometer located near the center of the tank.

**HEATING SYSTEM:** Flues: (2) 8" x 6" U-type return flues running the full length of the tank. The inlet and exhaust opening of each individual set of flues are in the same horizontal plane, allowing heating with a minimum of material in the tank. Flues have stainless steel external stacks.

a. Liquid petroleum gas burners (2) with minimum 1,000,000 B.T.U. each per hour, 52 gal LP tank mounted on front of bogey, manual ignition.

**ASPHALT PUMP UNIT:** Type: Positive displacement rotary gear type. 4 1/2" suction x 4' discharge.

Location: Under and below the bottom level of the tank so that the material will flow vertically from the suction to the

discharge insuring complete drainage when tank contents valve is closed.

Capacity: Minimum of 400 gallons per minute.

Self flushing line from fuel tank or heating system to fill line. Includes minimum 20 gallon capacity fuel tank with float level gauge. Located away from burners for safe operation.

Air cooled diesel engine, minimum 32 HP rated, equipped with a complete 12 volt starting system with alternator, battery, powering hydraulic pump, motor and control valves for operating the 400 GPM asphalt pump. Includes 18 gallon minimum hyd. oil tank, filter, etc. Complete hydraulic system to develop minimum 2500 P.S.I. Two (2) quick couplers for material "off-on" or load-unload functions. The asphalt pump and all controls for operating the loading or unloading are located near the pump unit.

**UNDERCARRIAGE:** Adjustable upper 5th wheel with approximately 18 inches movement capability. Retractable landing legs with sand pads. Minimum 20,000 pound rated tandem axles fixed with bearings, oil seals, and suspension system, eight (8) steel disc type wheels for 11R22.5 size radial tires, minimum 16 1/2 x 7 inch size air brakes (S cam type) with heavy duty cast iron brake drums and air line connector kit to tractor. Eight (8) radial tires size 11R22.5, 12 ply radials on 7.5 inch rims. In compliance with (49 CFR Part 571.224) Federal Motor Vehicle Safety standard rear impact guards.

**LIGHTING:** In accordance with Fed. 108 standard with a "Berg" or equivalent seven (7) wire receptacle.

### OPTIONAL EQUIPMENT

- Additional rear ladder with 24' walkway to center manhole.
- Electric Hourmeter for diesel engine
- High Pressure Burners: (2) Two self-contained electrically driven fuel oil burners with electronic push button ignition and automatic outfire control. Combined capacity of 14 gallons per hour. Capable of producing 945,000 BTU per hour per burner.
- Asphalt pump GPM tach.
- Placard kit for hot product certification.
- Float type tank gauge.



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