This book depicts both standard and optional equipment and features both aluminum and steel construction.

Specifications and design are subject to change due to continuous improvement.
The Asphalt Tank
Built for Hot Products
ARA Aluminum Round Asphalt

- Hose Trough, 20 ft.
- L-shape Manhole Platform
- Ladder
- Optional Front Pump Off
- 6" Rear Discharge with 3" line
- Stainless Steel Light Boxes
- Aluminum Bogie
- Rear Aluminum Fenders
- Air Ride suspension
- Front Aluminum Fenders
- 2-speed Landing Gear
ARA
Straight Round

T-ARA
Tapered Round

ADTR
Double Taper Round
Asphalt tanks are designed and manufactured to comply with the DOT 406 specifications but with an exception to the venting and the discharge valve. Asphalt tanks are allowed atmospheric venting in lieu of ‘smart vents’ and manual discharge valves in lieu of spring loaded closure devices with remote actuators.

Do to the allowed and recognized exceptions to the full 406 specifications Asphalt tanks are classified as 49 CFR 173.247.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non Code</td>
<td>49 CFR 173.247</td>
<td>Hot AC, Emulsion, Calcium Chloride, Diesel Fuel, Biodiesel, Hot Wax</td>
</tr>
<tr>
<td>DOT 406</td>
<td>Smart Vent, Internal Valves, Emergency Shutdown</td>
<td>Gasoline, Fuel Oil, Alcohol, Flamables</td>
</tr>
<tr>
<td>DOT 407</td>
<td>25psi, Vapor Recovery</td>
<td>Crude Oil, Solvents, Plasticizers, Chemical</td>
</tr>
</tbody>
</table>

General description, check regulations
Tank Construction

- 3" and 5" channel.
- Rings continuous weld.
- Deep dish heads.

Jacketing System

- Exclusive 0.04” aluminum jacketing. Durable to withstand years of service.
- Exclusive system reduces the circumference seams.
- Superior heat retention.
- 0.08” jacket heads.

- 375º Tank Rating.
  or
- 400º Tank Rating (adds 400 lbs.)

- Clip system allows for expansion and contraction.
• Insulation 1# density.
• 4” standard.
• 5” optional (adds 290 lbs.).
• 6” optional (adds 390 lbs.).
Rear Discharge Valve

- Split rear bumper with sloping discharge line.
- Optional 4” discharge lines.
- Optional 3” or 4” gate valves.
- Optional washout and sample valve.

Front Pump Off (optional)

- Includes 8’ front hose trough.
- Position of valve body insures drainage
  Load heat keeps valve free
- 3” line to rear (adds 120 lbs)
  4” line optional
- Internal valve with “shear” design – meets federal regulations without rollover protection.
- Hose swivel standard.
Wash Out System (optional)

- 20 gallon.
- Pressurized with truck air.
- Optional line to front and rear discharge.
- Optional stainless steel tank.

Steam Coils (optional)

Options: Aluminum Construction
- Steam coils. 1 1/2” pipe aluminum.
  - Two pass
  - Four pass
  - Eight pass

Steam Coil Assembly
Fiberglass Insulation
**Etnyre Style Vent**

- Large surge chamber with vent.
- Insulated.
- Internal vent and external drain line.

**Light Weight Style Vent**

- Vents into spillbox area.
- 35 lbs lighter than Etnyre Style.
- External drain line.
Manhole Area

- 20” quick opening manhole.
- Single hold down cover.
- Manufactured by Etnyre.
- DOT 406 compliant.

Platforms

- Large L shape catwalk standard.
  Options for 1, 3 & 4 sided.

Walkways

- Aluminum Walkway
- Open Grated
Asphalt Pump (optional)

- Manufactured by Etnyre especially for asphalt.
- 200 GPM capacity.
- No low spots to trap asphalt.

Toolboxes
**Upper Coupler**
- Total adjustment 24”.
- Adjustable in 2” increments.
- 5/16” high strength steel construction. 3/8” and 1/2” optional.

**Thermometer**
- 2” Dial Type.
- Enclosed Well.
- 50° to 550°.

**Sample Valve**
- Internal valve.
- Custom locations.

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**Fenders**
Aluminum Ladder

Landing Gear

Light Box
Stainless Steel

Options available for 2, 3 or 4 lights

Hose Trough/Tube

2 Speed

10 x 12 x 4
10 x 12 x 2

20’ x 8” Dia.

Single - 6” x 20’

Double - 12” x 20’

Custom options available
Suspension

Lift Axle
Auto or Manual Lift
Auto lowers axle when loaded and lifts axle when empty.

Steel
Stainless Steel
Aluminum (-240 lbs)

Custom axle combinations available
Tires

- 295/75R22.5
- 11R24.5
- 385/65R22.5
- 445/50R22.5
- 455/55R22.5

Disc Wheels

- Aluminum Durabrite Mirror
- Aluminum Polish Mirror
- Aluminum Machine Clean & Buff Gray
- Steel +130 lbs per axle

Tire Inflation System

Axle Ends

- HD
- TP

Brake

- Disc
- Drum
Axle and Tire Combinations

Outside to outside tire dimension

445/50R

- Steel disc wheel
- Steel hub
- Cast drum brakes
- Air ride suspension
- 1,548 lbs per axle

11R22.5

- Aluminum wheel
- Aluminum hub
- Centrifuse drum brakes
- Air ride suspension
- 1,364 lbs per axle

445/50R

- Aluminum wheel
- Aluminum hub
- Disc brakes
- Air ride suspension
- 1,177 lbs per axle

11R22.5

- Aluminum wheel
- Aluminum hub
- Centrifuse drum brakes
- Air ride suspension
- 1,180 lbs per axle

445/50R

- Aluminum wheel
- Aluminum hub
- Centrifuse drum brakes
- Spring ride suspension
- 1,090 lbs per axle

11R22.5

- Aluminum wheel
- Aluminum hub
- Centrifuse drum brakes
- Air ride suspension
- 1,087 lbs per axle
Anti Lock & Roll Stability

The trailer anti-lock system (ABS) is an electronic system that monitors and controls wheel speed on trailers during braking. The system works with standard air brake systems.

The different versions of the system are commonly identified by the number of sensors (S) and valves (M = modular relay valve) in the system. For example:

- 2S/1M = 2 sensors and 1 valve (Minimum required by FMVSS121)
- 2S/2M = 2 sensors and 2 valves (standard)
- 4S/2M = 4 sensors and 2 valves

Signals from the wheel speed sensors are received and processed by the electronic control unit (ECU). As long as none of the wheels begin to lock, the ABS lets the normal air brake system control the braking. But, if a wheel starts to lock, the ECU activates the ABS relay for that wheel. The ABS relay valve can then apply and release air chamber pressure up to five times a second. This reduces wheel lock-ups and helps the driver complete a controlled stop.

Roll stability control (RSC) is an active vehicle safety system that automatically intervenes if a high rollover risk is detected while driving. If a rollover threat is occurring, the system intervenes and applies trailer brakes to reduce vehicle speed.

Underride

Underride required when bumper is 12” or more from rear tire.
Tractor Weight and Dimension Data Sheet

The following information is vital in the design of your new Transport. The correct weight factors will enable us to prepare a weight analysis for your approval prior to the actual assembly of this unit. Please Return this form with information on these items as soon as possible.

Truck Make ___________________________ Model ____________________ Year _____________

States of Operation
Comply with Federal D.O.T. 80,000# Gross Weight Limits? ________

Type of Product to be Transported
Temperature of Product When Loaded ___________________________
Weight Per Gallon of Product When Loaded ____________________

Gross Axle Weight Ratings (G.A.W.R.)
Front Axle Scale Weight ___________________________
Tandem Scale Weight ___________________________
Total Empty Scale Weight ___________________________
Gross Vehicle Weight Rating (G.V.W.R.) ___________________________

Note: Tractor weights to be scale weight with driver and fuel.

E. D. ETNYRE & CO.
1333 South Daysville Road, Oregon, Illinois 61061
Phone: 1-815-732-2116 Fax: 1-815-732-7400
SAMPLE WEIGHT ANALYSIS

Customer Truck

7250 GALLON (7,500 SHELL FULL)
67 11/16” DIA. FRONT TO REAR
68,000# GVWR
400 °F. MAXIMUM LOADING TEMP.
DESIGNED TO 49CFR173.247

DRAWING IS FOR ILLUSTRATIVE PURPOSES ONLY.
ALL WEIGHTS AND DIMENSIONS ARE APPROXIMATE.
Steel Construction

**LWR**

**TR-6**
Tapered Round, 6”

**TR-10**
Tapered Round, 10”

**DTR**
Double Taper Round
Options unique to Steel Construction

- 600° F. Construction
- 5” or 6” Insulation (3” standard)
- Heating Flues(s)
- LPG or Fuel Oil Burner(s)
- Stainless Steel Heat Box - RD valve
- Etnyre 200 GPM Hot Products Pump

Steel Barrel – 7,000 Nominal Gallons
Tare Weight 11,600 lbs

- Aluminum Bogie
- Centrifuse Drums
- Wide Base Tires
- Drum Brakes
- Aluminum Hubs
- Aluminum Wheels

OAL 43’-0”
Rust Inhibitor

- Bottom 1/2 of steel tanks undercoated with high temp paint.
- Undercoating is pumped into rings to coat inside.

- Exclusive moisture drain built into bottom of jacketing to assist in removal of condensation.

- Full 4” channel.
- Rings continuous weld.

- Deep dish heads.
Insulation

- Insulation 1# density.
- 3” standard.
- 4”, 5” and 6” optional.
Thermal Expansion Mounting

- Tank is bolted to bogie.
- Bolting system is designed to allow expansion and contraction.

Optional Heat Box
For Rear Discharge Valve

- Stainless steel construction.
- Holds heat around valve.
- Allows for safe, uniform heating of valve.
Optional Heat System

Heat System Options:
• Multiple heat tubes.
• Tube sizes: 8” with 6” return
  8” with 8” return
  10” with 10” return
• Stainless steel flue liners.
• Burners: Liquid Propane
  Fuel Oil

Steel Construction
Etnyre Bituminous Transports
The Asphalt Tank