

# DOT-110 Ton Containers

## 110A Series Ton Tank

DOT Class 110A fusion-welded multi-unit tank car tanks or "ton tanks" for compressed gases such as refrigerant gases and fire-extinguishing gases, and for PIH materials such as hydrazine and nitrogen tetroxide.

Standard test pressures of 500, 800, 1,000 and 2,000 psi (35, 55, 70 and 140 bar in metric models). Standard capacities of 193 or 212 US water gallons (732 or 803 liters) and custom capacities up to 250 US water gallons (946 liters). We manufacture both a standard and metric capacity model

Our 110A series tanks are independently inspected by our resident authorized inspection agency to meet US DOT 110A500W, 110A800W, 110A1000W and 110A2000W (by exemption) specifications and IMDG Code (CA 1996070013)



110A800W



# CBC

Columbiana Boiler Company

Quality Steel Fabrication Since 1894

Specialty Gases and Liquid

Used World Wide

ASME Certified Welders & NDT Level III Inspectors

# DOT-110 Ton Containers

## Fusion Welded Pressure Vessel

Since 1936, Columbiana Boiler has manufactured over 200,000 transport containers for hazardous liquids and gases.

### Liquid and Pressure Controls

- Two (2) service valves (liquid & vapor), with CGA 820 or 660 outlets, located within a heavy-duty protective bonnet
- Pressure relief devices (fusible plugs and/or spring-loaded pressure relief devices)

### Liquid and Pressure Controls

- Approved for most Class 2 gases such as: refrigerant, fire-extinguishing gases, etc. and also PIH gases of Div. 2.3 (Zones B, C, D) such as: ammonia, hydrogen sulfide, nitrogen tetroxide, sulfur hexafluoride, etc.
- Also approved for most Class 3 flammable liquids, Class 4 pyrophoric/dangerous when wet materials, and Class 6 toxic/infectious liquids.

### Finishing

- Exterior: Commercial grit blasting followed by primer and one color topcoat system
- Interior: Grit blasting followed by vacuum cleaning

### Shipping

- per 20' Intermodal container: 13
- per 40' Intermodal container: 29
- per truck trailer up to: 31

### Options

- Gas tight bonnet
- Training Ends
- Shipping Skids
- Emergency Safety Kits
- Valves, Plugs and all other spare parts



### Design Characteristics

- ASTM A-516 Grade 70 carbon steel
- ASTM A-240 Grade 304L stainless steel available
- Service temperature = -40 to 140°F (-40 to 60°C)

### Weights and Sizes

DOT Spec.	test pressure		tare weight	
110A500W	500 psig	34.5 bar	1,200 lbs.	544 kg
110A800W	800 psig	55 bar	1,425 lbs.	646 kg
110A1000W	1,000 psig	69 bar	2,305 lbs.	1,046 kg
110A2000W	2,000 psig	138 bar	2,815 lbs.	1,277 kg

\*capacity "standard" ton = 193 gal 732 lt  
approx. 30" OD x 81.5" length (762 x 2,070 mm)

\*capacity "metric ton" = 212 gal 803 lt  
approx. 30" OD x 88.5" length (762 x 2,248 mm)

\*product payload depends on the calculated filling density.



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