

Vacuum insulated

# Liquid CO<sub>2</sub> Storage Units

- Designed, built, and tested to meet American Society of Mechanical Engineers (ASME) specifications.
- Units feature all stainless steel piping, nozzles, valves, lifting lugs, and shipping legs on vertical units.
- Valved pressure building vaporizer lines and vacuum insulated perlite insulation standard.
- Designed to limit normal liquid charge up to 93% of the normal volumetric capacity of the storage unit.
- All units designed for hurricane wind load, with tanks designed for wind speed of 110 mph (177 km/hr).
- Designed for Seismic IV installation.



## SPECIFICATIONS

NOMINAL CAPACITY: 6.2 U.S. Ton (5.6 M-Ton), 14.3 U.S. Ton (12.9 M-Ton), 30.1 U.S. Ton (27.3 M-Ton) and 50.3 U.S. Ton (45.6 M-Ton) of liquid carbon dioxide.

MAXIMUM ALLOWABLE WORKING PRESSURE (MAWP): 350 psig (2.413 Mpa) (23.8 bars/2,114 kPa).

MINIMUM DESIGN METAL TEMPERATURE (MDMT): -29.2°F (-34°C)

DESIGN PRESSURE: At least 10% above normal operating pressure.

STANDARD FEATURE: Capped pressure building lines.  
INNER VESSEL MATERIAL: SA-612 -40°F (-40°C) high strength, fine grain carbon steel, normalized.

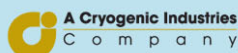
OUTER VESSEL MATERIAL: A36 structural grade carbon steel.

AVAILABLE OPTIONS: Manway (cleaning and internal inspection), vaporizer, refrigeration system, capped refrigeration lines with internal coils.

| Nominal Capacity |             | Height* |        | Length* |        | Width* |        | Approx. Empty Weight |             | Horizontal or Vertical |
|------------------|-------------|---------|--------|---------|--------|--------|--------|----------------------|-------------|------------------------|
| U.S. Tons        | Metric Tons | Feet    | Meters | Feet    | Meters | Feet   | Meters | U.S. Tons            | Metric Tons |                        |
| 6.2              | 5.6         | 7'½"    | 2.15   | 15'2"   | 4.62   | 6'0"   | 1.83   | 6.0                  | 5.4         | Horizontal             |
| 14.3             | 12.9        | 8'6½"   | 2.60   | 19'7"   | 5.97   | 7'6"   | 2.29   | 11.3                 | 10.2        | Horizontal             |
| 30.1             | 27.3        | 8'6½"   | 2.60   | 55'7"   | 16.94  | 7'6"   | 2.29   | 20.6                 | 18.5        | Horizontal             |
| 50.3             | 45.6        | 10'0"   | 3.05   | 40'0"   | 12.19  | 9'6"   | 2.90   | 35.5                 | 32.0        | Horizontal             |
| 6.2              | 5.6         | 7'3"    | 2.21   | 15'10"  | 4.83   | 6'9"   | 2.06   | 6.6                  | 5.9         | Vertical               |
| 14.3             | 12.9        | 9'4¾"   | 2.86   | 20'2"   | 6.15   | 8'2"   | 2.49   | 12.5                 | 11.3        | Vertical               |
| 30.1             | 27.3        | 9'4¾"   | 2.86   | 56'6"   | 17.22  | 8'2"   | 2.49   | 22.8                 | 20.5        | Vertical               |
| 50.3             | 45.6        | 11'0"   | 3.35   | 40'10"  | 12.45  | 9'10"  | 3.00   | 35.5                 | 32.0        | Vertical               |

\*Shipping dimensions

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