

CHANGING THE WAY YOU THINK ABOUT CO₂

V Series CO₂ Storage Units - Urethane Insulated Vertical



TOMCO₂ Systems' Vertical units can store up to 100 tons (91 MT) in a very limited space with this urethane insulated vertical CO₂ storage unit. The V Series vessels are well built, low-maintenance storage units maximizing space, providing quality and ensuring long life.

Specifications

Pressure Vessel: Constructed in accordance with Section VIII, Division 1 of the ASME Code for Unfired Pressure Vessels for a maximum allowable working pressure (MAWP) of 350 psig (24.1 bar). 2" NPS and under tank nozzles are schedule 80 stainless steel.

Piping: Schedule 80 seamless pipe, 2,000 lb. (907.2 kg) forged steel fittings, 1/4 turn stainless steel isolation valves.

Safeties: Dual ASME approved direct spring operated, sized for unconfined outdoor installation. Larger capacity relief valves will be required for installation when located indoors or in a fire area.

Insulation: 4" (10.16 cm) polyurethane

Outer Jacket: (0.16 cm) aluminum

Vaporizers Optional: Steam or electric, capacities to 6,000 lbs./hr. (2,722 kg/hr)

Liquid Level Gauge: Differential pressure indicator type with 6" (15.24 cm) dial

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Pressure Gauge: 0 to 600 psig with 6" (152 mm) dial **Electrical Characteristics:** 208/220/230/460V, 60Hz., 3 Phase. Other voltages available upon request.

Control Cabinet: 0.04" (0.10 cm) prefinished aluminum, complete cabinet lifts off for total accessibility to refrigeration unit.

Manway installed for internal inspection and ease in cleaning.

Shipping Dimensions

| Model | Nominal Ton Capacity | Height | Length | Width | Approx. Empty Weight |
|----------|----------------------|--------------------|------------------|------------------|-------------------------|
| 681VA | 6 tons 5.4 MT | 16' 1" 4.90 m | 8' 4" 2.54 m | 6' 5" 1.96 m | 10,000 lbs 4,536 kg |
| 1481VA | 14 tons 12.7 MT | 20' 4" 6.20 m | 8' 9" 2.67 m | 8' 0" 2.44 m | 15,500 lbs 7,031 kg |
| 3081VA | 30 tons 27.2 MT | 35' 10" 10.92 m | 8' 9" 2.67 m | 8' 0" 2.44 m | 30,000 lbs 13,608 kg |
| 5081VA | 50 tons 45.4 MT | 39' 6" 12.04 m | 10' 5" 3.18 m | 9' 6" 2.90 m | 40,000 lbs 18,144 kg |
| 7581VA | 75 tons 68 MT | 45' 0" 13.72 m | 11' 5" 3.48 m | 10' 6" 3.20 m | 55,000 lbs 24,948 kg |
| 10081VA* | 100 tons 91 MT | 58' 9" 17.95 m | 11' 6" 3.54 m | 10' 6" 3.23 m | 74,000 lbs 33,566 kg |

**Weights include insulation, refrigeration unit, saddles and nozzles for a standard vessel. Actual weights vary.

NOTE: Safety relief valve removed for shipment. All CO₂ storage units are manufactured using normalized SA-612 carbon steel plate.