



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.