

CHANGING THE WAY YOU THINK ABOUT CO₂

C Series CO₂ Storage Units - Urethane Insulated Horizontal



TOMCO₂ Systems offers this efficient CO₂ storage unit designed with wide flanged rectangular skids for use in areas where placement is a concern. It provides ease of installation and low maintenance costs. The C Series offers totally enclosed valves, electrical and refrigeration. It may be locked conveniently for safety and security. Sizes range from 6 tons to 50 tons. Other sizes available upon request. An aluminum outer jacket conceals a 4" (10.16 cm) polyurethane insulation which allows for long life and maximum protection. Auxiliary outlets are available for additional liquid and vapor supply needs.

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: 0.063" (0.16 cm) aluminum

Vaporizers Optional: Electric, pressure build units factory installed in unit cabinet

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

Pressure Gauge: 0 to 600 psig with 6" (15.24 cm) dial

Electrical Characteristics: 208/220/230/460V, 60 Hz., 3 Ph. Other voltages available upon request.

Control Cabinet: 0.04" (0.10 cm) prefinished aluminum with lockable access door.

Electrical Panel

Electrical panels inside control cabinet for refrigeration system and optional pressure build vaporizer.



Shipping Dimensions

Model	Nominal Ton Capacity	Height	Length	Width	Approx. Empty WT.
675CA	6 tons 5.4 MT	8'6" 2.59 m	16' 0" 4.88 m	6' 2" 1.88 m	10,000 lbs 4,536 kg
1475CA	14 tons 12.7 MT	8'10" 2.69 m	19' 9" 6.02 m	7' 8" 2.34 m	15,500 lbs 7,031 kg
3075CA	30 tons 27.2 MT	9'0" 2.74 m	36' 0" 10.98 m	7' 8" 2.34 m	30,000 lbs 13,608 kg
5075CA	50 tons 45.4 MT	9'0" 2.74 m	56' 6" 17.22 m	7' 8" 2.34 m	45,000 lbs 20,412 kg

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

NOTE: Safety relief valve removed for shipment due to height requirements on 14-ton (12,701 kg) and larger units.

All CO₂ storage units are manufactured using normalized SA-612 carbon steel plate.

Manway installed for internal inspection and ease in cleaning.