



C Series CO₂ Storage Units

Urethane Insulated Horizontal

TOMCO₂ Systems offers this efficient CO₂ storage unit designed with wide flanged rectangular skirts for use in areas where placement is a concern. It provides balanced weight distribution 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 3.75 tons to 60 tons (3.4 MT to 54.4 MT).

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.



GENERAL 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.

Seismic: Per UBC 1997 seismic zone 4, importance factor of 1.25, soil profile types Sa, Sb, Sc, Sd or Se, 2 km or less to a type A seismic source. Design to other codes available on request.

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: 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

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: 0.063" (0.16 cm) prefinished aluminum with lockable access door.

NOTE: Safety relief valve removed for shipment due to height requirements on 10-ton (9,072 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.



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

Model	Nominal Ton Capacity	Height	Length	Width	Approx. Empty WT.
3.7575CA	3.75 tons	8' 6"	12' 0"	6' 2"	8,000 lbs.
	3.4 MT	2.89 m	3.66 m	1.88 m	3,629 kg
675CA	6 tons	8' 6"	16' 0"	6' 2"	10,000 lbs.
	5.4 MT	2.59 m	4.88 m	1.88 m	4,536 kg
1075CA	10 tons	8' 6.5"	15' 9"	7' 6"	13,500 lbs.
	9.1 MT	2.60 m	4.80 m	2.29 m	6,124 kg
1475CA	14 tons	8' 6.5"	19' 9"	7' 6"	15,500 lbs.
	12.7 MT	2.60 m	6.02 m	2.29 m	7,031 kg
1875CA	18 tons	8' 8"	23' 9"	7' 6"	17,500 lbs.
	16.3 MT	2.64 m	7.24 m	2.29 m	7,938 kg
2675CA	26 tons	8' 8"	32' 0"	7' 6"	25,000 lbs.
	23.6 MT	2.64 m	9.76 m	2.29 m	11,340 kg
3075CA	30 tons	8' 8"	36' 0"	7' 6"	30,000 lbs.
	27.2 MT	2.64 m	10.98 m	2.29 m	13,608 kg
3475CA	34 tons	8' 8"	40' 0"	7' 6"	33,900 lbs.
	30.8 MT	2.64 m	12.19 m	2.29 m	15,377 kg
3875CA	38 tons	8' 8"	45' 9"	7' 6"	38,300 lbs.
	34.5 MT	2.64 m	13.94 m	2.29 m	17,373 kg
5075CA	50 tons	8' 8"	56' 6"	7' 6"	45,000 lbs.
	45.4 MT	2.64 m	17.22 m	2.29 m	20,412 kg
6075CA	60 tons	8' 8"	66' 6"	7' 6"	60,000 lbs.
	54.4 MT	2.64 m	20.27 m	2.29 m	27,216 kg

