



E Series CO₂ Storage Units

Urethane Insulated Horizontal

Efficient CO₂ storage units to meet your needs in ranges from 3.75 (3.4 MT) nominal ton capacity to 120 (109.0 MT) nominal ton capacity. Our functional, long-life CO₂ storage units are designed to operate economically in environments of high heat and humidity.

Auxiliary outlets are available for additional liquid and vapor supply needs.



GENERAL SPECIFICATIONS

Pressure Vessel: Constructed in accordance with Section VII, 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, water 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" (15.25 cm) dial

Electrical Characteristics: Model 3.7581EA and 681EA use 208/220V, 60 Hz., 1 Ph. All other models use 208/220/230/460V, 60 Hz., 3 Ph. Other voltages available upon request.

Control Cabinet: 0.04" (0.102 cm) prefinished aluminum, complete cabinet folds down for total accessibility to refrigeration unit. (Add 4'0" (10.16 cm) to length shown for fold down clearance.)

NOTE: Safety relief valve removed for shipment due to height requirements on 14-ton and larger units.

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

Manway installed for internal inspection and ease in cleaning.

Model	Nominal Ton Capacity	Shipping Height*	Installed Height	Length*	Width	Approx. Empty Weight**
3.7581EA	3.75 tons	8' 1/2"	8' 1/2"	11' 10"	5' 10"	7,500 lbs.
	3.4 MT	2.45 m	2.45 m	3.61 m	1.78 m	3,401 kg
681EA	6 tons	8' 8"	8' 8"	15' 10"	5' 10"	9,000 lbs.
	5.4 MT	2.64 m	2.64 m	4.83 m	1.78 m	4,082 kg
1081EA	10 tons	8' 4"	9' 11"	16' 0"	7' 4"	12,000 lbs.
	9.1 MT	2.54 m	3.02 m	4.88 m	2.24 m	5,443 kg
1481EA	14 tons	8' 4"	9' 11"	20' 0"	7' 4"	14,000 lbs.
	12.7 MT	2.54 m	3.02 m	6.10 m	2.24 m	6,350 kg
1881EA	18 tons	8' 4"	9' 11"	26' 5"	7' 4"	16,800 lbs.
	16.3 MT	2.54 m	3.02 m	8.08 m	2.24 m	7,620 kg
2681EA	26 tons	8' 4"	9' 11"	33' 0"	7' 4"	23,500 lbs.
	23.6 MT	2.54 m	3.02 m	10.06 m	2.24 m	10,659 kg
3081EA	30 tons	8' 4"	9' 11"	37' 0"	7' 4"	26,500 lbs.
	27.2 MT	2.54 m	3.02 m	11.28 m	2.24 m	12,020 kg
3481EA	34 tons	8' 4"	9' 11"	41' 0"	7' 4"	29,000 lbs.
	30.8 MT	2.54 m	3.02 m	12.50 m	2.24 m	13,154 kg
3881EA	38 tons	8' 4"	10' 7 1/2"	45' 0"	7' 4"	33,000 kg
	34.5 MT	2.54 m	3.24 m	12.50 m	2.24 m	14,969 kg
5081EA	50 tons	8' 4"	10' 7 1/2"	57' 0"	7' 4"	40,000 lbs.
	45.4 MT	2.54 m	3.24 m	17.37 m	2.24 m	18,144 kg
6081EA	60 tons	8' 4"	10' 7 1/2"	67' 0"	7' 4"	45,000 lbs.
	54.4 MT	2.54 m	3.24 m	20.42 m	2.24 m	20,412 kg
7781EA	77 tons	11' 1/4"	13' 1 3/4"	47' 11"	10' 0"	60,200 lbs.
	69.9 MT	3.36 m	4.00 m	14.61 m	3.05 m	27,307 kg
9181EA	91 tons	11' 1/4"	13' 1 3/4"	55' 6"	10' 0"	69,000 lbs.
	83.0 MT	3.36 m	4.00 m	16.92 m	3.05 m	31,299 kg
10681EA	106 tons	11' 1/4"	13' 1 3/4"	63' 1"	10' 0"	78,000 lbs.
	96.2 MT	3.36 m	4.00 m	19.23 m	3.05 m	35,381 kg
12081EA	120 tons	11' 1/4"	13' 1 3/4"	71' 1"	10' 0"	87,500 lbs.
	109.0 MT	3.36 m	4.00 m	21.67 m	3.05 m	39,690 kg

*Shipping dimensions

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

