

TOMCO CO2 EA Series – Horizontal

These long life carbon dioxide storage units come in a variety of capacities, and are designed to operate efficiently even 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 Unfired Pressure Vessels for a maximum allowable working pressure (MAWP) of 350 psig (24.1 bar). 2" NPS & under tank nozzles are schedule 80 stainless steel.
- Seismic: Per UBUBC 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 seismic source. Design to other Codes available upon request.
- Piping: Schedule 80 seamless pipe, 2,000 lbs (907.2 kg) forged steel fittings, ¼ turn stainless steel isolation valves.
- Safeties: Dual ASME approved direct spring operated, sized for unconfined outdoor installation. Large capacity relief valves will be required for installation when located indoors and in a fire area.
- Insulation: 4" (10.16 cm) Polyurethane
- Outer jacket: .063" (0.16 cm) Aluminum
- Vaporizers Optional: Steam, water or electric, capacities to 6,000 lbs/hr (2722 kg/hr)
- Liquid level gauge: Differential pressure indicator type with 6" (15.24 cm) dial
- Pressure gauge: 0 - 600 psig with 6" (15.24 cm) dial
- Electrical Characteristics: Models 3.7581EA and 681EA use 208/220 V, 60 Hz, 1 Phase. All other models use 208/220/230/460 V, 60 Hz, 3 Phase. Other voltages available upon request.
- Control cabinet: .04" (0.1 cm) prefinished aluminum. Complete cabinet folds down for total accessibility to refrigeration unit. Add 4' (1.22 m) to length shown below for fold down clearance
- Manway installed for internal inspection and ease in cleaning
- Stainless steel nozzles and valves

Safety relief valve removed for shipment due to height requirements on 14-ton (12701 kg) and larger units. All CO₂ storage units are manufactured using normalized SA-612 carbon steel plate.

Horizontal Series E Weights & Dimensions

Model	Nominal Ton Capacity	Height*	Length*	Width*	Empty Weight**
3.7581EA	3.75 Tons	8'8"	11'10"	5'10"	7,500 lbs
	3.4 MT	2.64 m	3.61 m	1.78 m	3401 kg
681EA	6 Tons	8'8"	15'10"	5'10"	9,000 lbs
	5.4 MT	2.64 m	4.83 m	1.78 m	4082 kg
1481EA	14 Tons	8'7"	20'0"	7'4"	14,000 lbs
	12.7 MT	2.62 m	6.10 m	2.24 m	6350 kg
2681EA	26 Tons	8'7"	33'0"	7'4"	23,500 lbs
	23.6 MT	2.62 m	10.06 m	2.24 m	10659 kg
3081EA	30 Tons	8'7"	37'0"	7'4"	26,500 lbs
	27.2 MT	2.62 m	11.28 m	2.24 m	12020 kg
5081EA	50 Tons	8'7"	57'0"	7'4"	40,000 lbs
	45.4 MT	2.62 m	17.37 m	2.24 m	18144 kg
6081EA	60 Tons	8'7"	67'0"	7'4"	45,000 lbs
	54.4 MT	2.62 m	20.42 m	2.24 m	20412 kg
7781EA	77 Tons	11'1"	47'10"	10'0"	60,200 lbs
	69.9 MT	3.38 m	14.61 m	3.05 m	27307 kg
9181EA	91 Tons	11'1"	55'6"	10'0"	69,000 lbs
	83.0 MT	3.38 m	16.92 m	3.05 m	31299 kg
10681EA	106 Tons	11'1"	63'1"	10'0"	78,000 lbs
	96.2 MT	3.38 m	19.23 m	3.05 m	35381 kg
12081EA	120 Tons	11'1"	71'1"	10'0"	85,000 lbs
	109.0 MT	3.38 m	21.67 m	3.05 m	39690 kg

*Shipping Dimensions

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