



# V Series CO<sub>2</sub> Storage Units

## Urethane Insulated Vertical

TOMCO<sub>2</sub> Systems' V Series units can store up to 100 tons (91 MT) in a very limited space with this urethane insulated vertical CO<sub>2</sub> storage unit. The V Series vessels are well built, low-maintenance storage units maximizing space, providing quality and ensuring long life.



Note: Safety relief valve removed for shipment. All CO<sub>2</sub> storage units are manufactured using normalized SA-612 carbon steel plate.

### 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 1.0, soil profile types Sa, Sb, Sc, Sd, or Se, greater than 10 km from 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" (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.

Model	Nominal Ton Capacity	Height	Length	Width	Approx. Empty Weight
681VA	6 tons	16' 1"	8' 4"	6' 5"	10,000 lbs.
	5.4 MT	4.90 m	2.54 m	1.96 m	4,536 kg
1481VA	14 tons	20' 4"	8' 9"	8' 0"	15,500 lbs.
	12.7 MT	6.20 m	2.67 m	2.44 m	7,031 kg
2681VA	26 tons	31' 10"	8' 9"	8' 0"	25,000 lbs.
	23.5 MT	9.70 m	2.67 m	2.44 m	11,340 kg
3081VA	30 tons	35' 10"	8' 9"	8' 0"	30,000 lbs.
	27.2 MT	10.92 m	2.67 m	2.44 m	13,608 kg
5081VA	50 tons	39' 6"	10' 5"	9' 6"	40,000 lbs.
	45.4 MT	12.04 m	3.18 m	2.90 m	18,144 kg
7581VA*	75 tons	45' 0"	11' 5"	10' 6"	55,000 lbs.
	68.0 MT	13.72 m	3.48 m	3.20 m	24,948 kg
10081VA*	100 ton	58' 9"	11' 6"	10' 6"	74,000 lbs.
	91.0 MT	17.95 m	3.54 m	3.23 m	33,566 kg

\* Standard 7581VA (75 ton), 10081VA (100 ton) Vertical is not suitable for maximum seismic conditions.

