



FLEX-FLOW Urethane Insulated CO₂ Storage

Recognizing the need for versatility in the changing Flex-Flow industry, TOMCO₂ Systems designed and introduced the Flex-Flow urethane insulated horizontal and vertical CO₂ storage units. These CO₂ storage units offer minimal maintenance, efficient operation in heat and humidity, manway for inspection and cleaning, evaporator coil inside the vessel and an optional refrigeration unit.

The Flex-Flow product line is available in nominal capacities of 6 tons to 120 tons (5.4 MT to 109.0 MT) in both horizontal and vertical CO₂ storage units to meet your needs. All CO₂ storage units are manufactured using a 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.

Piping: Schedule 80 seamless pipe, 2,000 lb. forged steel fittings, 1/4 turn stainless steel isolation valves.

Refrigeration: Optional. Manway installed for internal inspection and ease in cleaning. Refrigeration evaporator coil installed inside vessel.

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: 6" (152 mm) polyurethane

Outer Jacket: 0.063" (1.6 mm) aluminum with F&D aluminum heads

Vaporizers Optional: Steam, water or electric capacities to 12,000 lbs./hr. (2,722 kg/hr)

Liquid Level Gauge: Differential pressure indicator type with 6" (152 mm) dial

Pressure Gauge: 0 to 600 psig with 6" (152 mm) dial

Vertical Models	Nominal Ton Capacity	Height	Length	Width	Approx. Empty Weight**
5081FV	50 tons	39' 2"	10' 7"	9' 10"	40,000 lbs.
	45.4 MT	11.9 m	3.23 m	3.00 m	18,144 kg
7581FV	75 tons	44' 3"	11' 3 3/4"	10' 7 9/16"	55,000 lbs.
	68.04 MT	13.49 m	3.45 m	3.25 m	24,947 kg

*Shipping dimensions.

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

