

All about



Besides Cryogenic and CO2 Static and Transportable Tanks we also manufacture and supply:

- Automatic CO2 Production Plants
- CO2 Stack Gas Recovery Plants
- Fermentation CO₂ Recovery Systems
- CO2 Gas Recovery Systems for Dry Ice Machines
- Dry Ice Slices/Block/Pelletizer Machines
- Dry Ice Blasting Systems **ASCOJET**
- CO2 Pumps and Cylinder Filling Systems
- CO2 Atmospheric Vaporisers
- CO2 Detectors
- CO2 Flowmeters
- Low to Low Pressure CO2 Transfer Pumps
- CO2 Testing Equipment (Dew Point / Purity / Carbonation)
- Ancillary CO2 Equipment

Ask us for further details and offer:

Switzerland (Head Office)
 Industriestr. 2, CH-8590 Romanshorn
 Tel. + 41 71 466 80 80 Fax + 41 71 466 80 66
 e-mail: info@ascoco2.com

ASCO CARBON DIOXIDE LTD

www.ascoco2.com

New Zealand

P.O.Box 16134, NZ-Christchurch
 Tel. + 64 3 349 7029 Fax + 64 3 349 4337
 e-mail: info@asco.co.nz

1216e

Compact CO₂ Storage Tanks



- **Compact**
- **Simple and safe operation**
- **Installed in minutes**
- **Fully automatic**

ASCO storage tanks are constructed in various standard sizes, ranging from 3'000 to 45'000 kg capacity of liquid carbon dioxide. Larger sizes are also available. Each unit is compactly designed to allow easy, safe and low-cost packing and transportation in 20' / 40' containers or flat racks.

General Description

The **ASCO** pressure vessels are designed and built per section VIII Division 1 of the A.S.M.E. code (U1-A certificate supplied), maximum allowable working pressure is 350 psi (24.1 bar). Vessels are saddle or leg mounted (5.4 ton has 4 legs not saddles) to an I-beam frame. Capacities given are based on a 93 % full volume. Vessels are primed and insulated with 102 mm urethane foam and covered with a 1.6 mm prepainted white aluminium jacket with aluminium heads. All joints are overlapped and sealed with silicone sealant.

Safeties are sized per the recommendations of the Compressed Gas Association (CGA). Systems have dual safeties mounted in a 3-way switching valve and a single bleeder mounted in an insulation valve. Shut off valves are ball type stainless steel.

Refrigeration systems are semi hermetic utilizing environmentally friendly R-404A (other types on request) refrigerant. Electrical systems consist of a Cutler Hammer control panel, magnetic starter, control voltage transformer, wired for automatic operation. The refrigeration system and front end piping are covered with an enclosure consisting of an aluminium angle and aluminium square tube frame covered with prepainted white aluminium sheets. A lockable access door is provided.

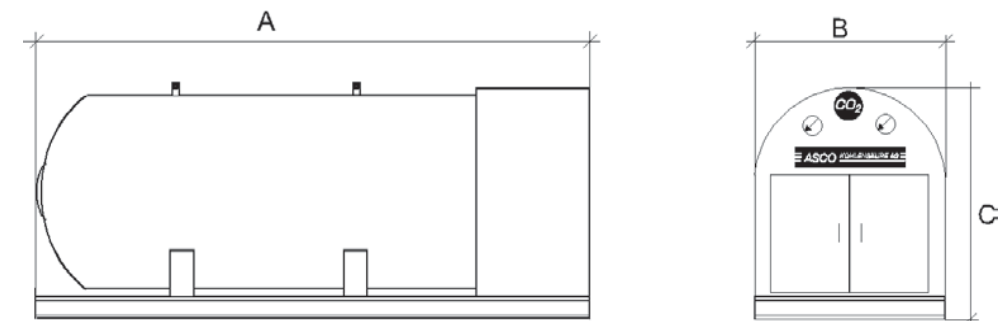
The tank content is shown by differential pressure indicator and pressure gauge with a diameter of 152 mm. The base frame is painted with a Glidden alkyd industrial enamel. The completed tank is tested with liquid carbon dioxide in the tank and all controls are set for proper automatic operation.

SPECIFICATION

Pressure Vessel	Built per A.S.M.E. code, Sec. VIII, Div.1 350 PSI = 24.1 bar design pressure -40 °C minimum design temperature Skid mounted
Insulation	Closed cell polyurethane foam, 102 mm thick 1.6 mm prefinished white aluminium jacket
Valves	Ball type stainless steel
Safety Valves	A.S.M.E. approved Direct spring loaded, or pilot operated Bleeder for secondary protection
Electrical	According to customers requirements U.L. listed components All controls necessary for automatic operation

Capacities, Dimensions and Weights

ASCO liquid carbon dioxide storage tanks are compactly arranged on a base-frame which allows installation on site within minutes (connect to nearest power source only). Insulation, refrigeration system, completely pre-wired electrical system with switchboard, level-indicator, safety devices, valves, pipework, all automatic controls and cabinet with lockable doors. All our systems are completely test-run before shipment. These outstanding features benefit CO₂-consumers all over the world.



Standard tank capacity	A max. length	B max. width	C max. height	packing + shipment in container	approx. empty weight	electrical supply
liquid CO ₂ in kg	mm	mm	mm	foot	kg	
3'180	3'350	1'880	2'230	20'	3'400	380V 50Hz 3 phase other voltages on request
5'450	4'570	1'880	2'230	20'	3'650	
8'200	5'820	1'880	2'230	20'	5'900	
9'070	4'870	2'280	2'540	40'	5'500	
11'500	5'790	2'030	2'280	20'	7'000	
16'300	7'310	2'280	2'540	40'	8'000	
23'600	9'750	2'280	2'540	40'	12'500	
29'400	11'730	2'280	2'540	40'	14'000	
30'800	12'190	2'280	2'540	45'	14'700	
36'300	14'630	2'280	2'540	flat bed	17'000	
45'400	17'070	2'280	2'540	ext. flat bed	19'000	

Larger sizes also available. Please ask for details!
We reserve the right to modify any part of the specification without notice!