

HSCO₂ & N₂O

HORIZONTAL BULK STORAGE SYSTEMS

Our HSCO₂ & N₂O Series of Bulk Carbon Dioxide and Nitrous Oxide Storage Tanks are engineered for the efficient storage supply of carbon dioxide and nitrous oxide. For maximum lifetime thermal efficiency, the HSCO₂ and N₂O systems are manufactured with an all-welded outer container to contain our proprietary Composite Super Insulation™ system and superior vacuum technology.



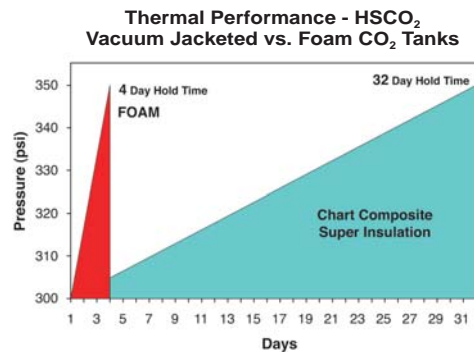
PRODUCT HIGHLIGHTS

Vacuum-Jacketed Composite vs. Foam Insulation

- Lowest lifecycle costs for bulk CO₂ & N₂O storage
- Superior functional performance
- High-strength, dent resistant outer jacket eliminates deterioration of insulation, costly repairs, down-time
- Simplified plumbing reduces potential for piping leaks
Eliminate product loss due to venting
- Hold time is 8 times longer than foam
- Refrigeration system not required for maintaining heat leak
- No monthly maintenance or electrical charges
- No manway required for condenser coil maintenance
- Two-year payback vs. foam tank
- Pressure builder and vaporizer systems available – see applications brochure P/N 21111520 for details
- Backed by a five-year vacuum warranty
- Optional internal vapor condensing coil available – see applications brochure P/N 21111520 for details

Horizontal benefits

- Low profile to meet your height restrictions
- Eliminates seismic concerns
- Replace existing foam footprint

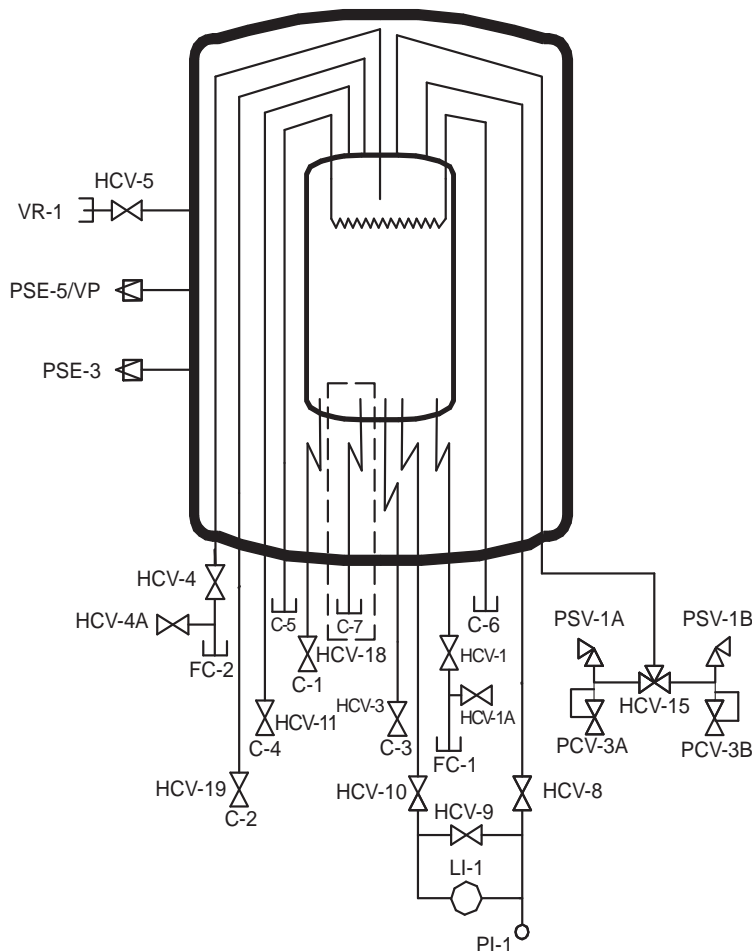


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Model	CO ₂				N ₂ O				MAWP*	Length in mm	Width in mm	Height in mm	Weight**		NER %/day in CO ₂ /N ₂ O				
	Gross Cap. Ton	Net Cap. Tonne	Gross Cap. Ton	Net Cap. Tonne	Gross Cap. Ton	Net Cap. Tonne	Gross Cap. Ton	Net Cap. Tonne					lbs	Kg					
6Ton	6.9	6.3	6.7	6.0	8.5	7.7	8.0	7.3	350	24.1	188	4,775	68	1,728	80	2,032	8,500	3,856	.24
14Ton	13.2	12.0	12.6	11.4	12.9	11.7	12.3	11.2	350	24.1	233	5,913	86	2,184	95	2,413	17,400	7,890	.12
30Ton	32.9	29.8	31.2	28.3	32.1	29.2	30.5	27.7	350	24.1	280	7,112	114	2,900	127	3,226	31,900	14,470	.08
50Ton	51.1	46.3	48.5	44.0	49.9	45.3	47.4	43.0	350	24.1	396	10,058	114	2,900	127	3,226	43,300	19,641	.06

* MAWP - Maximum Allowable Working Pressure. ** Weights are for ASME design. (NER) = Normal Evaporation Rate



Nomenclature

C-1	Connection, Auxiliary Liquid
C-2	Connection, Auxiliary Vapor
C-3	Connection, PB Liquid
C-4	Connection, PB Vapor
FC-1	Connection, Fill
FC-2	Connection, Vapor Return/Full Trycock
HCV-1	Valve, Bottom Fill
HCV-1A	Valve, Drain
HCV-3	Valve, PB Liquid
HCV-4	Valve, Vapor Return/Full Trycock
HCV-4A	Valve, Drain
HCV-5	Valve, Vacuum Gauge Tube
HCV-8	Valve, LI-1 Vapor Phase
HCV-9	Valve, LI-1 Equalization
HCV-10	Valve, LI-1 Liquid Phase
HCV-11	Valve, PB Vapor
HCV-15	Valve, Safety Relief Selector
HCV-18	Valve, Auxiliary Liquid
HCV-19	Valve, Auxiliary Vapor
LI-1	Level Indicator, Inner Vessel
PI-1	Pressure Indicator, Inner Vessel
PCV-3A	Pressure Control Valve, Econ Vent
PCV-3B	Pressure Control Valve, Econ Vent
PSE-3	Pressure Safety Element, Outer Vessel
PSE-5/VP	Pressure Safety Element, Otr Ves., Vac Port
PSV-1A	Pressure Safety Valve, Inner Vessel
PSV-1B	Pressure Safety Valve, Inner Vessel
VR-1	Vacuum Readout, Outer Vessel

Refrigeration Option

C-5	Connection, Auxiliary Refrigeration
C-6	Connection, Auxiliary Refrigeration

Dashed Line represents Additional Line
(Standard on 30/50 Ton Only)

C-7	Connection, Secondary Auxiliary Liquid
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Auxiliary refrigeration valves on HCV-1A and HCV-4A not included in C-5 and C-6 optional N₂O service.

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