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
**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 Liquid Phase
- **HCV-10** Valve, PB Vapor
- **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.