Chart’s VS Series Storage Systems, available in liquid nitrogen, oxygen or argon service, are offered in a wide range of sizes for applications requiring Maximum Allowable Working Pressures of 175 and 250 psig (12 and 17 bar) as standard. Other pressures are available upon request. This equipment is designed in accordance with ASME code.

Our composite insulation system gives you the competitive edge with high thermal performance, extended hold times, low life-cycle costs and light weight to reduce operational and installation costs. Chart leads the industry with an innovative modular piping system designed for performance, durability and low maintenance.

PRODUCT HIGHLIGHTS

- Piping modules designed for ease-of-access to all operational control valves with stainless steel interconnecting piping to minimize the number of connections, reducing maintenance and cost of ownership
- Component selection to improve operational performance – Combination Pressure Building/Economizer Regulator for easy pressure adjustment and extended Bonnet Bronze Control Valves for ease of operation
- High performance safety system with dual relief valves and rupture disks supplied as a standard
- New, innovative Vertical Fin Pressure Building System improves performance, while reducing frost and ice build-up to further reduce your maintenance costs
- Backed by an industry-leading warranty
- Interchangeable gauge systems with digital telemetry capable gauge and flexible stainless steel interconnection lines
<table>
<thead>
<tr>
<th>Model</th>
<th>Gross Capacity</th>
<th>Nominal Capacity</th>
<th>Working Pressure</th>
<th>Diameter</th>
<th>Height</th>
<th>Weight</th>
<th>NER %/day</th>
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</table>

* 400, 500 psig tanks are available upon request  
(NER) = Nominal Evaporation Rate  
** Weights are for ASME designs

### Nomenclature

- **C-1** Connection, Aux Liquid  
- **C-2** Connection, Aux Vapor  
- **C-3** Connection, Secondary Aux Liq  
- **C-4** Connection, Secondary Aux Vapor  
- **CV-1** Check Valve, Fill  
- **CV-3** Check Valve, Economizer  
- **FC-1** Connection Fill  
- **HCV-1** Valve, Bottom Fill  
- **HCV-2** Valve, Top Fill  
- **HCV-3** Valve, PB Inlet  
- **HCV-4** Valve, Full Trycock  
- **HCV-5** Valve, No Fill  
- **HCV-6** Valve, LI-1 Vapor Phase  
- **HCV-7** Valve, LI-1 Equalization  
- **HCV-8** Valve, LI-1 Liquid Phase  
- **HCV-10** Valve, Bypass Houseline  
- **HCV-11** Valve, PB Outlet  
- **HCV-12** Valve, Vapor Vent  
- **HCV-13** Valve, Product Supply  
- **HCV-15** Valve, Safety Relief Selector  
- **HCV-17** Valve, Economizer  
- **HCV-18** Valve, Safety Relief Selector  
- **PCV-1** Pressure Control Valve  
- **PCV-2** Pressure Control Valve  
- **PCV-3** Pressure Control Valve  
- **PCV-4** Pressure Control Valve  
- **PCV-5** Pressure Control Valve  
- **PI-1** Pressure Indicator, Inner Vessel  
- **PI-2** Pressure Indicator, Inner Vessel  
- **PI-3** Pressure Indicator, Inner Vessel  
- **PSE-1A** Pressure Safety Element, Intr Vessel  
- **PSE-1B** Pressure Safety Element, Intr Vessel  
- **PSV-1A** Pressure Safety Valve, Intr Vessel  
- **PSV-1B** Pressure Safety Valve, Intr Vessel  
- **PBC-1** Pressure Building Coil, Intr. Vessel