HTC SERIES
FULL EN 13458

Horizontal Storage tanks for Carbon Dioxide and Nitrous Oxide

HTC series of storage tanks designed in accordance with the requirements for safe, comfortable and reliable operation. Many of the features have been incorporated in close collaboration with leading industrial gas companies.

HTC series tanks are horizontal stationary, pressure vessels with perlite insulation for long term storage of liquefied gases like CO₂, N₂O under pressure.

- in accordance with EN 13458 and conforming to directive 2014/68/EU
- design with saddles
- easy lifting and low cost erection using a single crane
- fine grain / low temperature carbon steel inner vessel

HTC series are available in capacities from 4,000 to 67,000 liters with pressure of 25 bar.

- bolted bonnet globe valves with stainless steel bodies
- easily accessible relief valves with outlets directed away from the operating area
- with durable environmentally friendly coating for industrial standards
- high performance PBU with optional electrical heater as PBU

**Horizontal benefits**
low profile to meet your height restrictions
eliminates seismic and meteorological concerns

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**Chart Vacuum Technology®**
Providing the best insulation system to protect your valuable gases from harsh ambient conditions results in lower pressure rise and lower losses, yielding better gas utilization.

Chart Vacuum Technology® is at the core of why Chart is recognized around the world as the premier supplier of cryogenic equipment.

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### HTC Series Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Gross Volume [Liter]</th>
<th>Net Volume 95% Filling [Liter]</th>
<th>Outer Diameter &amp; Width [mm]</th>
<th>LCO₂ Storage 95% Filling [Kg]</th>
<th>LN₂ Storage 95% Filling [Kg]</th>
<th>Empty Weight 26 bar [Kg]</th>
<th>Height 95% Filling [mm]</th>
<th>Length w/o Plumbing [mm]</th>
<th>Length with Plumbing [mm]</th>
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<tbody>
<tr>
<td>HTC 4</td>
<td>4.120</td>
<td>3.914</td>
<td>1.800</td>
<td>4.330</td>
<td>4.140</td>
<td>3.660</td>
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<td>6.907</td>
<td>1.800</td>
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<td>11.189</td>
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</tbody>
</table>

### Basic Dimensions

**Nomenclature**

- **A**1: Fill connection
- **A**2: Gas return connection
- **GR**: Gas return valve
- **L1**: Level indicator
- **PBU**: Pressure building vaporizer
- **PI**: Pressure indicator
- **RO**: Pressure control valve
- **S1**: Safety valves, inner vessel
- **S2**: Vacuum safety valve
- **S3**: Thermal relief valve, PB circuit
- **S4**: Thermal relief valve
- **V1**: Bottom fill valve
- **V2**: Isolation valve, bottom filling
- **V4**: Valve, PB outlet
- **V5**: Valve, vapor vent, gas outlet
- **V6**: Valve, trycock
- **V9**: Valve, liquid outlet
- **V12**: Vacuum pump down
- **V14**: Valve, safety relief section
- **V60**: Valve, L1 vapor phase
- **V61**: Valve, L1 liquid phase
- **V62**: Valve, L1 equalization

* standard model – not all options shown

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