HT SERIES
FULL EN 13458

Horizontal Cryogenic Storage Tanks for Atmospheric Gases and LNG

HT series of cryogenic tanks designed in accordance with the requirements for safe, easy and economical operation. They have standard features along with pre-engineered options sure to satisfy all of your requirements.

HT series tanks are horizontal stationary, pressure vessels with perlite insulation for long term storage of cryogenic liquefied gases under pressure.

- in accordance with EN 13458 and conforming to directive 2014/68/EU
- modular plumbing (e.g. fill cluster)
- saddles design
- easy lifting and low cost erection using a single crane

HT series are available in capacities from 3,000 to 60,000 liters with pressures of 18, 22 and 37 bar.

- stainless steel inner vessel and piping
- piping module designed for easy-of-access to all operational control valves with stainless steel interconnecting piping to minimize the number of connections, reducing maintenance and cost of ownership
- bolted bonnet globe valves with stainless steel bodies
- easily accessible relief valves with outlets directed away from the operating area
- high performance safety system with dual relief valves and rupture disks supplied as a standard
- with durable environmentally friendly coating for industrial standards

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

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.
## Specifications

### HT SERIES

**FULL EN 13458**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Gross Volume</th>
<th>NET Volume 95% filling</th>
<th>Outer Diameter &amp; Width</th>
<th>LIN Storage 95% filling</th>
<th>LOX Storage 95% filling</th>
<th>LAR Storage 95% filling</th>
<th>LCO Storage 95% filling</th>
<th>LN Storage 95% filling</th>
<th>Empty Weight 18bar</th>
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### BASIC DIMENSIONS

**Nomenclature**

- **A1**: Fill connection
- **V1**: Bottom fill valve
- **V2**: Top fill valve
- **V28**: Valve, fill line drain
- **LFD**: Liquid outlet (HT3-HT9)
- **LI**: Level indicator
- **PBU**: Pressure building vaporizer
- **PI**: Pressure indicator
- **RG1**: Pressure control valve / Economizer
- **S1**: Safety valves, inner vessel
- **S2**: Vacuum safety valve
- **V3**: Isolation valve, bottom filling
- **V4**: Isolation valve, top filling
- **V5**: Valve, vapor vent, gas outlet
- **V6**: Valve, trycock
- **V9**: Valve, external vaporizer
- **V12**: Vacuum pump down
- **V14**: Valve, safety relief section
- **V22.1**: Valve, liquid outlet (HT11-HT60)
- **V50**: Valve, LI vapor phase
- **V51**: Valve, LI liquid phase
- **V52**: Valve, LI equalization

* standard model – not all options shown

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