

HS SERIES

HORIZONTAL BULK STORAGE



The HS Series Bulk Stations are engineered and built with the same quality you have come to expect from Chart. They have standard features along with pre-engineered options sure to satisfy all of your requirements. Chart's HS Series Bulk Stations are designed to ASME code and available in 175 and 250 psig (12 and 17 barg) as standard (other pressures available upon request).

Our composite insulation system gives you the competitive edge with high thermal performance and extended hold times, resulting in low life-cycle costs. In addition, the light weight design reduces your installation costs.

PRODUCT ADVANTAGES

- Piping modules designed for ease-of-access to all operational control valves with stainless steel interconnecting piping minimizes 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 5-year vacuum warranty
- Inner vessel designed and built to ASME Section VIII Division 1 code



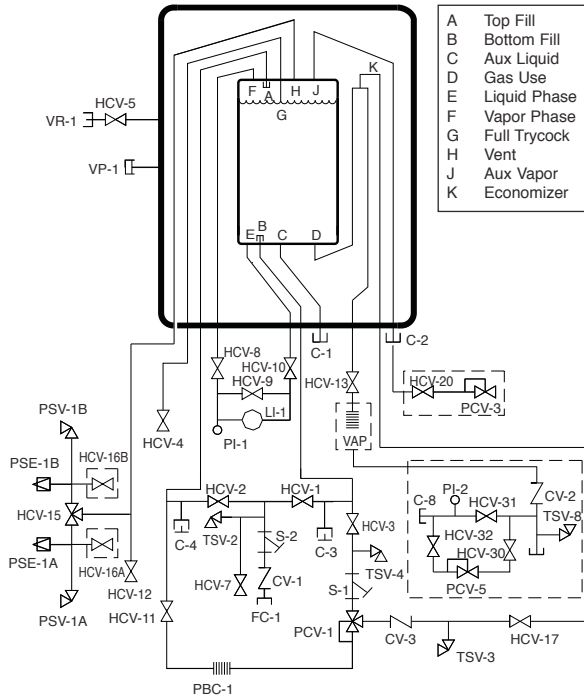
Innovation. Experience. Performance.™

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Model	Gross Capacity		Net Capacity		MAWP*		Width		Height		Length		Weight**		NER %/day	
	Gal	Liters	Gal	Liters	psig	bar	in	mm	in	mm	in	mm	lbs	Kg	in O ₂ / Ar	in N ₂
HS-1500SC	1,640	6,208	1,580	5,981	250	17.2	68	1,728	80	2,032	201	5,105	6,800	3,084	.56	.90
HS-3000SC	3,150	11,924	3,030	11,470	175	12.1	86	2,184	95	2,413	233	5,918	10,900	4,944	.32	.52
HS-6000SC	6,010	22,750	5,770	21,842	175	12.1	86	2,184	95	2,413	386	9,804	20,400	9,253	.22	.35
HS-9000SC	9,360	35,431	8,990	34,031	175	12.1	114	2,896	126	3,200	348	8,839	29,400	13,336	.15	.24
HS-11000SC	11,410	43,192	10,960	41,488	175	12.1	114	2,896	126	3,200	408	10,363	35,300	16,012	.15	.24
HS-13000SC	13,470	50,989	13,060	49,437	175	12.1	114	2,896	126	3,200	467	11,862	41,400	18,779	.15	.24
HS-15000SC	15,520	58,750	15,060	57,008	175	12.1	114	2,896	126	3,200	528	13,411	47,700	21,636	.15	.24
					250	17.2							52,300	23,723		

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



Nomenclature

C-1	Connection, Aux Liquid	S-1	Strainer, Pressure Building
C-2	Connection, Aux Vapor	S-2	Strainer, Fill
C-3	Connection, Secondary Aux Liq.	TSV-2	Thermal Safety Valve, Fill
C-4	Connection, Secondary Aux Vapor	TSV-3	Thermal Safety Valve, Economizer
CV-1	Check Valve, Fill	TSV-4	Thermal Safety Valve, PB Circuit
CV-3	Check Valve, Economizer	VP-1	Vacuum Port
FC-1	Connection Fill	VR-1	Vacuum Readout, Outer Vessel
HCV-1	Valve, Bottom Fill		
HCV-2	Valve, Top Fill		
HCV-3	Valve, PB Inlet		
HCV-4	Valve, Full Trycock		
HCV-5	Valve, Vacuum Gauge Tube		
HCV-7	Valve, Fill Line Drain		
HCV-8	Valve, LI-1 Vapor Phase		
HCV-9	Valve, LI-1 Equalization		
HCV-10	Valve, LI-1 Liquid Phase		
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		
LI-1	Level Indicator, Inner Vessel		
PBC-1	Pressure Building Coil, Inr. Ves.		
PCV-1	Pressure Control Valve		
PI-1	Pressure Indicator, Inner Vessel		
PSE-1A	Pressure Safety Element, Inr Ves		
PSE-1B	Pressure Safety Element, Inr Ves		
PSV-1A	Pressure Safety Valve, Inr Ves		
PSV-1B	Pressure Safety Valve, Inr Ves		
S-1	Strainer, Pressure Building		
S-2	Strainer, Fill		
TSV-2	Thermal Safety Valve, Fill		
TSV-3	Thermal Safety Valve, Economizer		
TSV-4	Thermal Safety Valve, PB Circuit		
VP-1	Vacuum Port		
VR-1	Vacuum Readout, Outer Vessel		

NOTE: Optional valves (not shown)

HCV-18	Valve, Liquid Withdrawal (From C-1)
HCV-19	Valve, Vapor Return (From C-2)
HCV-21	Valve, Sec Aux Liquid (From C-3)
HCV-22	Valve, Sec Aux Vapor (From C-4)

Dashed lines represent optional components

C-8	Connection, Customer Houseline
CV-2	Check Valve, Houseline
HCV-16A	Valve, Relief Line Purge
HCV-16B	Valve, Relief Line Purge
HCV-20	Valve, Economizer Vent
HCV-30	Valve, Inlet Houseline
HCV-31	Valve, Bypass Houseline
HCV-32	Valve, Outlet Houseline
PCV-3	Pressure Control Valve, Econo Vent
PCV-5	Pressure Control Valve, Houseline
PI-2	Pressure Indicator, Houseline
TSV-8	Thermal Safety Valve, Houseline
VAP	Vaporizer, Product Withdrawal