Micro Bulk Tanks

1	Model Number	MT300	MT500	MT7500	MT10000LP
2	Type	Vertical & flat bottom			
3	Design Code	TSG21, GB/T150, GB/T18442-2019			
4	Design Pressure (Inner vessel/outer shell)	3000MP 1.6Mpa/-0.1Mpa	5000MP 1.6Mpa/-0.1Mpa	7500MP 1.6Mpa/-0.1Mpa	1.0Mpa/-0.1Mpa
		3000HP 2.3Mpa/-0.1Mpa	5000HP 2.3Mpa/-0.1Mpa	7500HP 2.4Mpa/-0.1Mpa	
		3000VHP 3.3Mpa/-0.1Mpa	5000VHP 3.3Mpa/-0.1Mpa	7500VHP 3.5Mpa/-0.1Mpa	
5	Max Working Pressure (Inner vessel/outer shell)	3000MP 1.6Mpa/-0.1Mpa	5000MP 1.6Mpa/-0.1Mpa	7500MP 1.6Mpa/-0.1Mpa	1.0Mpa/-0.1Mpa
		3000HP 2.3Mpa/-0.1Mpa	5000HP 2.3Mpa/-0.1Mpa	7500HP 2.3Mpa/-0.1Mpa	
		3000VHP 3.3Mpa/-0.1Mpa	5000VHP 3.3Mpa/-0.1Mpa	7500VHP 3.3Mpa/-0.1Mpa	
6	Design Temperature (Inner vessel/outer shell)	-196℃ / 50℃			
7	Full Volume	3.0m^3	4.99m^3	7.5m^3	9.89m^3
8	Filling Rate	95%			
9	Main Body Material	Inner vessel/sealing head: S30408 GB/T24511 Outer shell/sealing head: Q345R GB/T713			
10	Filling Medium	LO_2, LN_2, LAr			
11	Interlayer Medium	High vacuum multilayer insulation			
12	Helium Leak Test	Yes			
13	Vacuum Interlayer Leakage and Outgassing Rate	⩽1x10^{-6} Pa.m^3/s			⩽1x10^{-8} Pa.m^3/s
14	Static Evaporation Rate (Liquid Nitrogen)	⩽0.66/d	⩽0.45/d	⩽0.40/d	⩽0.22/d
15	Packing Pressure of inner vessel when leaving factory	20KPa			
16	Factory Vacuum	⩽0.01Pa			
17	Paint Brand, Film Thickness	JUTON 200um			
18	Support Form	Hang Ceiling			
19	Dimensions(L*W*H) mm	2005*1872*3090	2140*2260*3360	2800*2780*3380	2887*2795*3330
20	Chassis Size(L*W)mm	1800*1800mm	2000*2000mm	2450*2450mm	2550*2550mm
21	Empty Weight (Including Chassis)	3000MP: 1890kgs; 3000HP: 2058kgs; 3000VHP: 2346kgs;	5000MP: 2786kgs; 5000HP: 3100kgs; 5000VHP: 3560kgs;	7500MP: 3390kgs; 7500HP: 3910kgs; 7500VHP: 4575kgs;	4272kg
22	Internal Piping Material	Stainless steel S30408 GB/T14976			
23	External Piping Material	Stainless steel S30408 GB/T14976			
24	Pressure Booster	25Nm^3/h	25Nm^3/h	45Nm^3/h	25Nm^3/h
25	Vaporizer	75Nm^3/h	105Nm^3/h	150Nm^3/h	200Nm^3/h
26	LOGO	According to customer's requirements			

Features of Micro Bulk Tanks

- Due to the new process and excellent multi-layer insulation material, low static vaporization rate, stable insulation performance, and little gas consumption are realized.
- A vacuum regeneration chamber is set at both the entrance and exit to ensure a long-term lifetime and stable performance of the vacuum inter-layer.
- The use of a locating pin for the internal container avoids shifts caused by outside forces, upgrading the reliability of the whole structure.
- Compact structure: all pipelines are guided from the top distributor. The connection of pipes is welded but not screwed to reduce the possibility of medium leakage and upgrade safety.
- “Worcester” ball valve and “Generant” check valve are used on the filling interface. So, a transport truck and automatic liquid filling truck can be used to fill the tank directly and realize O wastage.
- The micro bulk can be placed on the ground directly without any foundation, taking only a little space. It can also be safely and quickly moved by lifting a lug on the top or a forklift pallet on the bottom.
- Digital liquid-level gauges can be installed. Multiple units of micro bulks can be managed simultaneously through a mobile phone APP. The remaining liquefied gas capacity can be checked at any time, and replenishment can be done quickly and accurately.