

LIQUID NITROGEN TANK

Topline liquid nitrogen (LN2) containers provide our customers a long-term storage tank with low liquid nitrogen evaporation in a sturdy light-weight, economical unit.

The Cryogenic tanks are insulated, vacuum-jacketed pressure vessels. They come equipped with safety relief valves and rupture discs to protect the cylinders from pressure buildup.

Container is cleaned for liquid nitrogen service. Tank pressurized with clean, dry, oil-free nitrogen gas. The annular space between the inner and outer tanks has been evacuated to the desired vacuum.

Features:

- Superior performance
- Optimum quality
- Enhanced service life
- Compact Design



CRYOGENIC TANK

SPECIFICATIONS:

Pressure vessel code:	ASME sect viii div.1
MAWP:	102psi, 7.0 Bar
Test pressure:	145 psi, 10.0 Bar
Design temperature range:	-320°F to +100°F - 196°C to + 38°C
Insulation system:	vacuum and multi – layer insulation
Inner vessel material:	SA – 240 – 304 stainless steel
Outer vessel material:	heads – SA – 36 carbon steel. shell – A10111, HSLAS GR50 CL1 carbon steel
Equivalent thickness ref steel:	4.50 mm.
Water capacity at 20°C:	8,404 litres , 2000 gal
Max.permmissible gross mass (MPGM):	11,940 kg , 25000lb
Unladen (tare) mass:	4,282 kg , 9440 lb.
Hold times per IMD G/49 CFR 178.277 -5 psi to 102 psi,(1.34 to 7.0 bar) @30°C	
Nitrogen, refrigerated liquid – UN 1977; 13,285 lbs (6. 026 kg), 22 days	
Heat influx rate:	73.3 watts for nitrogen, refrigerated liquid
Dimensions:	
Length:	2.97m
Breadth:	2.42m
Height:	2.55m