

CryoFlo Self-Pressurizing Liquid Nitrogen Supply Tank

A critical component of the liquid nitrogen supply system in cell banks and cell therapy facilities, the CryoFlo self-pressurizing liquid nitrogen supply tank is constructed from premium stainless steel (SUS304). An internal pressure-building system vaporizes a small amount of LN₂ to generate stable operating pressure for continuous liquid nitrogen delivery. The CryoFlo provides reliable LN₂ supply to controlled-rate freezers, vapor-phase storage systems, and compact storage units. Standard features include a float level gauge, pressure regulator, dual safety valves, and universal casters, ensuring safety and convenience during LN₂ delivery. In GMP-compliant manufacturing environments, a stable LN₂ supply is essential for reliable freezing and storage operations.



Key Features

- SUS304 stainless steel construction — corrosion-resistant and cleanroom-compatible
- Standard pressure regulator delivers stable output pressure for safe downstream equipment operation
- Standard float level gauge for real-time LN₂ level monitoring
- Dual safety valve design provides comprehensive safety protection
- Built-in universal casters for easy movement within labs and production areas
- Unique neck design reduces liquid nitrogen evaporation rate
- Optional digital level gauge for level monitoring
- Optional intelligent monitoring system supports remote level monitoring
- 5-year vacuum warranty ensures long-term equipment reliability
- Compliant with GB/T 16774-2012 Standard

Specifications

Model	CryoFlo-150	CryoFlo-200	CryoFlo-230	CryoFlo-300
Geometric Volume (L)	165	220	250	330
Useful Volume (L)	150	200	230	300
Vessel Outer Diameter (mm)	656	656	656	756
Height (mm)	1110	1280	1580	1410
Empty Weight (kg)	85	97	137	143
Neck Opening (mm)	50	50	50	50
Static LN ₂ Evaporation Rate (L/day)	1.8	2.2	2.5	3.0
Standard Operating Pressure (MPa)	0.05	0.05	0.05	0.05
Maximum Operating Pressure (MPa)	0.09	0.09	0.09	0.09
Delivery Rate (L/min)	≥5	≥10	≥10	≥10
Primary Safety Valve (MPa)	0.099	0.099	0.099	0.099
Secondary Safety Valve (MPa)	0.15	0.15	0.15	0.15
Pressure Gauge Range (MPa)	0-0.25	0-0.25	0-0.25	0-0.25