

Haier Liquid Nitrogen Storage System

Cryostor series

5 Year Vacuum Warranty

Decant Valves

Liquid Storage

Stainless Steel Construction

Muffler

Pressure Raising

Security

Relief Valve



Cryostor Series



Introduction

Cryostor Series is the latest innovation for high-performance liquid phase cryopreservation. The container uses the pressure generated from vaporization of small amount liquid nitrogen to discharge LN₂ for other containers. Storage capacities range from 5 to 500 liters.

Key Features

- Ten models with capacities range from 5 to 500 liters.
- All models are equipped with safety valves, 200 L and above models have additional rupture disc.
- All welded stainless steel construction
- Rotary ring construction
- Labelled valves for easy identification.
- 5 year vacuum warranty

Product Advantages

Stainless Steel Structure

Stainless steel structure can withstand the most demanding environment and ensure long-lasting security. It also provides reduced evaporation loss rate, compared with conventional welding insulation tanks.

A variety of accessories

Each Cryostor Series model is equipped with a pressure valve, a drain valve, a relief valve, and a pressure gauge. For 200 L and above models also apply safety structures such as rupture discs and silencers.

Casters

All models have four casters for better mobility and convenient use in different occasions.



Self-pressurized LN₂ Backup System

Self-pressurized LN₂ back up system is used for Cyro freezers. In extreme cases, such as power outage, system failure and so on, the backup system automatically opens cryogenic solenoid valves and injects liquid nitrogen to ensure the set temperature and protect samples.

Compared to traditional high pressure cylinder backup system, the self-pressurized LN₂ backup system has the following advantages:

- Safer: under required operating condition, self-pressurized LN₂ backup system has lower working pressure and hence safer than traditional high-pressure backup system.
- More Economical: self-pressurized liquid nitrogen tank has better insulation performance, lower evaporation losses and longer working duration with the same amount of LN₂.
- More convenient: self-pressurized LN₂ backup system combines the controllers with self-pressurized components and greatly reduces pipelines and cables used in traditional backup systems.
- More stable: due to the reduction of intermediate pipe connections, impact of environmental factors on the system is reduced.
- Cheaper: self-pressurized LN₂ backup system costs less than traditional backup systems.



Technical Parameters

Model	YDZ-5	YDZ-15	YDZ-30	YDZ-50	YDZ-100
Performance					
Volume of LN ₂ (L)	5	15	30	50	100
Static Evaporation* (L/Day)	0.15	0.38	0.75	1	1.3
LN ₂ output (L/Min)	2	2	3	3	4
Dimensions					
Height(MM)	510	750	879	991	1185
Outside Diameter(MM)	329	404	454	506	606
Empty Weight(KG)	15	23	32	54	75
Gross Weight(KG)	19.1	35.3	56.6	95.0	157.0
Pressure Parameters (MPA)	1. Standard working pressure 0.05, 2. Maximum working pressure 0.09, 3. First stage safety valve relief pressure 0.099, 4. Second stage safety valve release pressure 0.15, 5. Pressure gauge range 0-0.25				

Model	YDZ-150	YDZ-175	YDZ-200	YDZ-240	YDZ-300	YDZ-500
Performance						
LN ₂ capacity (L)	150	175	200	240	300	500
Static Evaporation* (L/Day)	1.95	2.1	2.4	2.9	3.3	5.5
LN ₂ output (L/Min)	6	6	8	8	8	10
Dimensions						
Height(MM)	1188	1298	1265	1350	1459	1576
Outside Diameter(MM)	706	706	758	758	857	1008
Empty Weight(KG)	102	120	130	148	202	255
Gross Weight(KG)	225	264	294	366	448	665
Pressure Parameters (MPA)	1. Standard working pressure 0.05, 2. Maximum working pressure 0.09, 3. First stage safety valve relief pressure 0.099, 4. Second stage safety valve release pressure 0.15, 5. Pressure gauge range 0-0.25, 6. Rupture disc burst pressure 0.47.					

* Static evaporation and static holding time is theoretical value. Actual evaporation and holding time is affected by usage, atmospheric conditions, and manufacturing tolerances.