

## Introduction

CryoCenter Series tanks are the latest high performance cryogenic liquid phase storage container which mainly used for liquid nitrogen storage in central laboratories. It introduces low amount of liquid vaporization to generate pressure, providing pressure for the tank to discharge liquid, thereby supply liquid nitrogen for other containers. Stainless wheel construction ensures them to be used in most rigorous environment for long time. Compared with traditional welded insulated cylinder, it largely reduces liquid nitrogen evaporation loss. The CryoCenter Series tanks include pressure raising valve, drip valve, drain valve and manometer.

The CryoCenter 200 and above tanks equip with rupture disk and muffler to provide customers with goods user's experience. In addition, CryoCenter Series tanks equip with four robust castor for easy use and move to different area.

Mainly apply to laboratory and chemical enterprises in need of storing and supplying liquid nitrogen automatically.

# CryoCenter Series



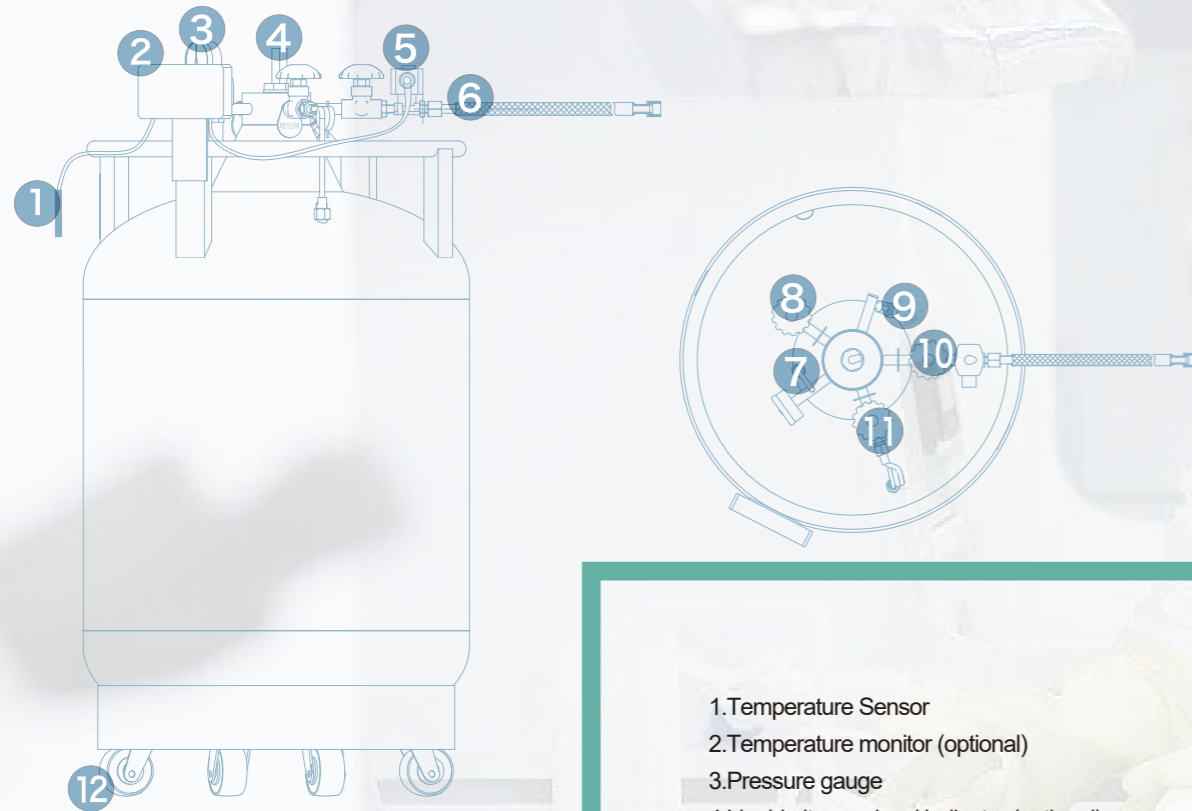
## Key Features

- 1 5 years vacuum warranty
- 2 Stainless steel tanks
- 3 Lockable casters
- 4 Low liquid nitrogen evaporation
- 5 Safety design and mutual or automatic protection
- 6 Electrical level meter and float level meter(optional)



# Back-up System

The CryoCenter series is a reliable device for liquid nitrogen storage and transportation. Its professional design reduces the liquid nitrogen evaporation consumption and guarantee users' safety. It can be optional for the solenoid valve, inner temperature monitor and liquid nitrogen level indicator to realize the auto supply of liquid nitrogen.



1. Temperature Sensor
2. Temperature monitor (optional)
3. Pressure gauge
4. Liquid nitrogen level indicator (optional)
5. Solenoid valve (optional)
6. Transfer hoses (optional)
7. First Safety valve,
8. Pressure relief valve
9. Second Safety valve
10. Fill and withdraw valve
11. Pressure building valve
12. Mobile castors.

Remarks:  
One CryoCenter tank supplying to more than one tank is available.

# Technical Specification

Model	CryoCenter 30(E/S)	CryoCenter 50(E/S)	CryoCenter 100(E/S)	CryoCenter 150(S)
<b>Performance</b>				
Liquid Nitrogen Capacity (L)	30	50	100	150
Static Evaporation (L/day)*	2.5	2	1.3	1.3
Infusion Volumes (L/min)	3	3	4	6
<b>Unit Dimensions</b>				
Overall Height (mm)	879	991	1185	1188
External Diameter (mm)	454	506	606	706
Weight Empty (kg)	32	54	75	102
Weight Liquid Full* (kg)	56.6	95	157	225
Standard Working Pressure (mpa)	0.05			
Highest Working Pressure (mpa)	0.09			
Primary Relief Value Opening Pressure (mpa)	0.099			
Secondary Relief Value Opening Pressure(mpa)	0.15			
Pressure Gauge Indicating Range (mpa)	0~0.25			

Model	CryoCenter 200(E/S)	CryoCenter 240(E/S)	CryoCenter 300(E/S)	CryoCenter 500(E/S)
<b>Performance</b>				
Liquid Nitrogen Capacity (L)	200	240	300	500
Static Evaporation (L/day)*	1.2	1.2	1.1	1.1
Infusion Volumes (L/min)	8	8	8	10
<b>Unit Dimensions</b>				
Overall Height (mm)	1265	1347	1459	1576
External Diameter (mm)	758	758	857	1008
Weight Empty (kg)	130	155	202	255
Weight Liquid Full* (kg)	294	375	448	665
Standard Working Pressure (mpa)	0.05			
Highest Working Pressure (mpa)	0.09			
Primary Relief Value Opening Pressure (mpa)	0.099			
Secondary Relief Value Opening Pressure(mpa)	0.15			
Pressure Gauge Indicating Range (mpa)	0~0.25			

★ Static evaporation rate and static holding time are nominal. Actual rate and holding time will be affected by the condition of container usage, atmospheric conditions, and manufacturing tolerances.