

Self-pressurized Series for LN₂ Storage and Supply



Scope of Application

Liquid Nitrogen Supplement Series for LN₂ Storage and Supply incorporates the latest innovation, its unique design utilises the pressure generated from the vapourisation of a small amount liquid nitrogen to discharge LN₂ into other containers. Storage capacities range from 5 to 500 litres.

Innovative Design

- 5 Year Vacuum Warranty
- Stainless Steel Construction
- Decant Valves
- Pressure Raising
- Liquid Storage
- Integral Safety Mechanisms

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Key Features

- All models are equipped with safety valves
- 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.

Casters

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

Variety of Accessories

Each Self-pressurized Series for LN₂ Storage and Supply model is equipped with a pressure valve, a drain valve, a relief valve, and a pressure gauge.

Accessories



Transfer Hose



Float-type Liquidometer

Additional Series for Liquid Nitrogen Tank

(Comparison between Standard Series and K Series)

Standard series



K series



New Functions of K Series

Digital Display Level Gauge

DLZ-300
Digital display of fluid level
Remote data transmission
function



Large diameter vent valve

Rapid relief of
over pressure
Protection of
safety valve










Pressure stabilizing valve








Stabilize fluid pressure
during auto filling





Technical Parameters

Model	YDZ-5	YDZ-15	YDZ-30	YDZ-50	YDZ-100	YDZ-100K	YDZ-150
Picture							
Authentication	CE	CE	CE	CE	CE	CE	CE
Performance							
Volume of LN ₂ (L)	5	15	30	50	100		150
Static Evaporation* (L/Day)	0.15	0.38	0.75	1	1.3		1.95
LN ₂ Output (L/Min)	≥2	≥2	≥3	≥3	≥4		≥6
Dimensions							
Height (mm)	652	771	900	1009	1179		1208
Outside Diameter (mm)	354	404	454	506	606		706
Empty Weight (kg)	19	26	38	54	86		107
Full Weight (kg)	23.0	38.1	62.2	94.4	166.8		228
Shipping Weight (kg)	32	37	53	63	107		137
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						
Battery Included	-	-	-	-	-	YES	-
Battery Type	-	-	-	-	-	Lithium Thionyl Chloride	-
Battery Model	-	-	-	-	-	ER14505	-
Battery Capacity	-	-	-	-	-	2700mAh	-
MSDS Report	-	-	-	-	-	Bilingual (Chinese and English)	-

Self-pressurized Series for LN₂ Storage and Supply

Model	YDZ-200	YDZ-200K	YDZ-240K	YDZ-300	YDZ-300K	YDZ-500	YDZ-500K
Picture							
Authentication	CE		CE	CE		CE	
Performance							
Volume of LN ₂ (L)	200		240	300		500	
Static Evaporation* (L/Day)	2.4		2.9	3.3		5.5	
LN ₂ Output (L/Min)	≥8		≥8	≥8		≥10	
Dimensions							
Height (mm)	1288		1405	1484		1607	
Outside Diameter (mm)	758		758	858		1008	
Empty Weight (kg)	145		159	193		273	
Full Weight (kg)	307		353	435		677	
Shipping Weight (kg)	179		188	223		342	
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						
Battery Included	-	YES	YES	-	YES	-	YES
Battery Type	-	Lithium Thionyl Chloride	Lithium Thionyl Chloride	-	Lithium Thionyl Chloride	-	Lithium Thionyl Chloride
Battery Model	-	ER14505	ER14505	-	ER14505	-	ER14505
Battery Capacity	-	2700mAh	2700mAh	-	2700mAh	-	2700mAh
MSDS Report	-	Bilingual (Chinese and English)	Bilingual (Chinese and English)	-	Bilingual (Chinese and English)	-	Bilingual (Chinese and English)

Model	YDZ-100/1.5	YDZ-240/1.5
Picture		
Authentication	PED	PED
Performance		
Volume of LN ₂ (L)	100	240
Static Evaporation* (L/Day)	1.3	2.88
Dimensions		
Height (mm)	1270	1500
Outside Diameter (mm)	606	756
Empty Weight(kg)	80	163
Full Weight (kg)	161	360
Shipping Weight (kg)	102	204
Pressure Parameters		
First stage safety valve relief pressure (Mpa/PSI)	0.15/22	
Second stage safety valve release pressure (Mpa/PSI)	0.24/35	
Pressure gauge range (Mpa/PSI)	0~1/145	
Rupture disc burst pressure (Mpa/PSI)	0.66/96	
Battery Included	YES	
Battery Type	Lithium Thionyl Chloride	
Battery Model	ER14505	
Battery Capacity	2700mAh	
MSDS Report	Bilingual (Chinese and English)	

*Static Evaporation: The amount of liquid nitrogen lost by natural evaporation within 24 hours after the container is allowed to reach thermal equilibrium under the specified filling rate, which is converted into the evaporation value under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C).

Product List

Product	Product Model	Description and Accessories
Self-Pressurized Filling Tank	YDZ-5	Includes single-layer transfusion hoses (ZG-DN10/1.5)
	YDZ-15	Includes single-layer transfusion hoses (ZG-DN10/1.5)
	YDZ-30	Includes single-layer transfusion hoses (ZG-DN10/1.5);
	YDZ-50	Includes single-layer transfusion hoses (ZG-DN10/1.5);
	YDZ-100	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	YDZ-150	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	YDZ-200	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	YDZ-300	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	YDZ-500	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	YDZ-100	Includes single-layer transfusion hoses (ZG-DN10/1.5), Digital display level gauge (DLZ-300) and pressure stabilizer. can be used for auto filling
	YDZ-200	Includes single-layer transfusion hoses (ZG-DN10/1.5), Digital display level gauge (DLZ-300) and pressure stabilizer. can be used for auto filling
	YDZ-240	Includes single-layer transfusion hoses (ZG-DN10/1.5), Digital display level gauge (DLZ-300) and pressure stabilizer. can be used for auto filling
	YDZ-300	Includes single-layer transfusion hoses (ZG-DN10/1.5), Digital display level gauge (DLZ-300) and pressure stabilizer. can be used for auto filling
	YDZ-320	Includes single-layer transfusion hoses (ZG-DN10/1.5), Digital display level gauge (DLZ-300) and pressure stabilizer. can be used for auto filling
	YDZ-500	Includes single-layer transfusion hoses (ZG-DN10/1.5), Digital display level gauge (DLZ-300) and pressure stabilizer. can be used for auto filling
Digital Display Level Gauge	DLZ-300	Digital display real time liquid nitrogen level of self pressurized tank, low power consumption battery, wireless transmission (YDZ-240K)
	DLZ-300(YDZ-320K)	Digital display real time liquid nitrogen level of self pressurized tank, low power consumption battery, wireless transmission (YDZ-320K)
	DLZ-300	Digital display real time liquid nitrogen level of self pressurized tank, low power consumption battery, wireless transmission (YDZ-500K)
Float-Type Liquidometer	FZ-100	Suitable for YDZ-100
	FZ-150	Suitable for YDZ-150
	FZ-200	Suitable for YDZ-200
	FZ-300	Suitable for YDZ-300
	FZ-500	Suitable for YDZ-500
Self-Pressurized Filling Tank	YDZ-100/1.5	Include single-layer transfusion hoses (ZG-DN10/1.5), Digital display level gauge (DLZ-300) and pressure stabilizer. The working pressure is 1.5 bar (22psi). PED certified and can be used for auto filling
	YDZ-240/1.5	Include single-layer transfusion hoses (ZG-DN10/1.5), Digital display level gauge (DLZ-300) and pressure stabilizer. The working pressure is 1.5 bar (22psi). PED certified and can be used for auto filling

*Haier Biomedical reserves the right to change products and specifications without prior notice.