



### **Scope of Application**

Liquid Nitrogen Supplement Series for LN<sub>2</sub> 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 LN<sub>2</sub> into other containers. Storage capacities range from 5 to 500 litres.

## **Innovative Design**

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

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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 evapouration 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**







## 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	
Performance						
Volume of LN <sub>2</sub> (L)	5	15	30	50	100	
Static Evapouration (L/Day)	0.15	0.38	0.75	1	1.3	
LN2 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	
Full Weight (kg)	19.1	35.3	56.6	95.0	157.0	
Shipping Weight (kg)	28	34	47	63	98	
Pressure Parameters (MPA)	Standard working pressure 0.05, 2. Maximum working pressure 0.09, 3. First stage safety valve relief pressure 0.099, Second stage safety valve release pressure 0.15, 5. Pressure gauge range 0~0.25					

Model	YDZ-150 —	YDZ-200 YDZ-200K	YDZ-240K —	YDZ-300 YDZ-300K	YDZ-500 YDZ-500K	
Performance						
LN2 Capacity (L)	150	200	240	300	500	
Static Evapouration (L/Day)	1.95	2.4	2.9	3.3	5.5	
LN2 Output (L/Min)	6	8	8	8	10	
Dimensions	Dimensions					
Height (mm)	1188	1265	1350	1459	1576	
Outside Diameter (mm)	706	758	758	857	1008	
Empty Weight (kg)	102	130	148	202	255	
Full Weight (kg)	225	296	350	448	665	
Shipping Weight (kg)	132	164	177	232	324	
Pressure Parameters (MPA)	Standard working pressur Second stage safety valve				,	

<sup>\*</sup> Static evapouration and static holding time are theoretical values. Actual evapouration and holding time are affected by usage, atmospheric conditions and manufacturing tolerances.

# Product List (

Model	Product	Model	Description and Accessories	
	Self-pressurized Filling Tank	YDZ-5	Includes transfer hoses (ZG-DN10/1.5)	
	Self-pressurized Filling Tank	YDZ-15		
	Self-pressurized Filling Tank	YDZ-30	Includes transfer hoses (ZG-DN10/1.5)	
	Self-pressurized Filling Tank	YDZ-50		
	Self-pressurized Filling Tank	YDZ-100		
	Self-pressurized Filling Tank	YDZ-150		
	Self-pressurized Filling Tank	YDZ-200	Includes transfer hoses (ZG-DN10/1.5) and float-type liquidometer	
YDZ	Self-pressurized Filling Tank	YDZ-300		
	Self-pressurized Filling Tank	YDZ-500		
	Self-pressurized Filling Tank	YDZ-100K		
	Self-pressurized Filling Tank	YDZ-200K	lack doe transfer becase (7C DN10/15) Disital display layed	
	Self-pressurized Filling Tank	YDZ-240K	Includes transfer hoses (ZG-DN10/1.5), Digital display level gauge (DLZ-300) and pressure stabilizer. Having the	
	Self-pressurized Filling Tank	YDZ-300K	function of remote transmission of liquid level data, can bused for automatic filling	
	Self-pressurized Filling Tank	YDZ-320K		
	Self-pressurized Filling Tank	YDZ-500K		
	Digital Display Level Gauge	DLZ-300 (YDZ-100K)	Digital display real time liquid nitrogen percentage of sel pressurized tank, low power consumption, wireless transmission; (YDZ-100K)	
	Digital Display Level Gauge	DLZ-300 (YDZ-200K)	Digital display real time liquid nitrogen percentage of self pressurized tank, low power consumption, wireless transmission; (YDZ-200K)	
	Digital Display Level Gauge	DLZ-300 (YDZ-240K)	Digital display real time liquid nitrogen percentage of self pressurized tank, low power consumption, wireless transmission; (YDZ-240K)	
	Digital Display Level Gauge	DLZ-300 (YDZ-300K)	Digital display real time liquid nitrogen percentage of self pressurized tank, low power consumption, wireless transmission; (YDZ-300K)	
Accessories	Digital Display Level Gauge	DLZ-300 (YDZ-320K)	Digital display real time liquid nitrogen percentage of self pressurized tank, low power consumption, wireless transmission; (YDZ-320K)	
	Digital Display Level Gauge	DLZ-300 (YDZ-500K)	Digital display real time liquid nitrogen percentage of se pressurized tank, low power consumption, wireles transmission; (YDZ-500K)	
	Float-type Liquidometer	FZ-100	Suitable for YDZ-100	
	Float-type Liquidometer	FZ-150	Suitable for YDZ-150	
	Float-type Liquidometer	FZ-200	Suitable for YDZ-200	
	Float-type Liquidometer	FZ-300	Suitable for YDZ-300	
	Float-type Liquidometer	FZ-500	Suitable for YDZ-500	
	Single-layer Transfusion Hose	ZG-DN10/1.5	Diameter 10mm, length 1.5m, suitable for YDZ series	

Model	Product	Model	Description and Accessories
	Vial Cane	(3-type)	Used to hold 3 vials (2ml)
	Vial Cane	(6-type)	Used to hold 6 vials (2ml)
	Plastic Cryo Box	5*5(2.0)	Used to store 1.8ml / 2ml vial (25 holes)
	Plastic Cryo Box	9*9(2.0)	Used to store 1.8ml / 2ml vial (81 holes)
	Plastic Cryo Box	9*9 (5.0)	Used to store 4.5 /4.7/5ml vial (81 holes)
	Plastic Cryo Box	10*10 (2.0)	Used to store 1.8ml/2ml vial (interally threaded,100 holes)
Cryobox	Plastic Cryo Box	Y-37	Suitable for round rack to store 1.8ml/2ml vial (37 holes)
Сгуовох	Plastic Goblets	SNT-97	Suitable for diameter 97mm canisters
	Blood Bag Cryo Box	25ml (791 OS/U)	One bag per box, rocker arm type
	Blood Bag Cryo Box	50ml (4R9951)	One bag per box, drawer type
	Blood Bag Cryo Box	250ml (4R9953)	One bag per box, rocker arm type
	Plastic Sleeve for Vial Cane	5016-0002 (6-type)	Suitable for vial cane that can hold 6 vials
	Aluminium Cryobox	8*1 (2.0)	Used to store 1.8ml/2ml vials (8 holes)
	Stainless Steel Cryo Box	5*5 (5.0)	Used to store 4.5ml/4.7ml/5ml vials (25 holes)
	Valve Adaptor	CGA295	Used to connect the valve of YDZ self-pressurized tank with transfer hose
	Cryogenic Solenoid Valve	DN7.0 (ASCO 24V)	Suitable for piping pressure≤0.5MPa
	Cryogenic Solenoid Valve	DN7.0 (JASA 24V)	Suitable for piping pressure≤0.5MPa
Other Accessories	Vacuum Insulated Hose	GRG-DN10/1.0	Diameter 10mm, length 1m, special use for liquid nitrogen transferring, connection type for both side and length can be customized, charged by meter
	Vacuum Insulated Hose	GRG-DN10/2.0	Diameter 10mm, length 2m, special use for liquid nitrogen transferring, connection type for both side and length can be customized, charged by meter
	Transfer Hose	ZG-DN10/1.5	Diameter 10mm, length 1.5m, suitable for YDZ series
	Transfer Hose	BG-DN10/1.0	Diameter 10mm, length 1.0m, suitable for liquid nitrogen pump YDB series
	Transfer Hose	RG-DN10	Diameter 10mm, used for liquid nitrogen transfering, fitting and length can be customized, charged in meters.
	Transfer Hose	RG-DN6	Diameter 6mm, used for liquid nitrogen transfering, fitting and length can be customized, charged in meters.
	Hose Heat Insulation Cotton	BMT-DN10	Suitable for DN10 single layer metal hose, 1 meter
	Cryogenic Gloves	ST-32	Overall length 320mm
	Cryogenic Gloves	ST-45	Overall length 450mm
	Cryogenic Gloves	ST-72	Overall length 720mm
	Level Measuring Scale	YWC-100	Measuring length1000mm

 $\label{product} \mbox{Product appearance and specifications are subject to change without notice}$