



Liquid Nitrogen Storage Systems

Biobank Series for Large Storage

Key Features

- Large scale storage capacities from 13,000 to 94,875 x standard 2ml cryovials
- Vapour phase storage to prevent cross contamination
- Excellent temperature uniformity
- One-touch defogging for easier access
- Liquid nitrogen splash-proof feature provides safer operation
- Blood bag storage options available



Product Description

Biobank series for large scale storage is designed to ensure the maximum storage capacity with the minimum consumption of liquid nitrogen to lower the overall cost of operation .

- Storage space designed to maximise capacity
- Designed for both liquid and vapour phase storage
- Advanced vacuum and super insulation technologies reduce LN2 consumption
- Cryosmart intelligent LN2 control system monitors and controls operation to protect samples
- Liquid nitrogen hot gas bypass

Applications

For Cord Blood Banks use model YDD-1300-635 is the most suitable model as it takes blood bags as the main sample storage method storing 25ml and 50ml blood bag shelves.

For Animal Husbandry use model YDD-1600-635 as this takes straws as the main sample storage method and stores 0.25ml and 0.5ml straws.

For large scale sample repositories for hospitals and laboratories use YDD-1800-635, this model takes cryogenic vials as the main sample storage method and stores 2ml and 5ml cryogenic vials.

Product List

Model	Description	Accessories		
		Standard (included)	Optional	
Biobank Series for Large Scale Storage	YDD-300-326	300L, neck opening diameter 326mm	Includes vacuum hoses (GRG-DN10/2.0)	<ul style="list-style-type: none"> •Square Canister FTT-10-55 •Square Canister FTT-10-99 •Cryosmart Level Monitoring System SJMU-700N •50ml Blood Bag Cryogenic Rack YDCJ-6 •250ml Blood Bag Cryogenic Rack YDCJ-3 •Level Measuring Scale 1000mm •5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
	YDD-550-445	550L, neck opening diameter 445mm	Includes vacuum hoses (GRG-DN10/2.0)	<ul style="list-style-type: none"> •Square Canister FTT-10-55 •Square Canister FTT-10-99 •Cryosmart Level Monitoring System SJMU-700N •50ml Blood Bag Cryogenic Rack YDCJ-6 •250ml Blood Bag Cryogenic Rack YDCJ-3 •Level Measuring Scale 1000mm •5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
	YDD-750-445	750L, neck opening diameter 445mm	Includes vacuum hoses (GRG-DN10/2.0)	<ul style="list-style-type: none"> •Square Canister FTT-14-55 •Square Canister FTT-14-99 •Cryosmart Level Monitoring System SJMU-700N •250ml Blood Bag Cryogenic Rack YDCJ-5-II •Level Measuring Scale 1000mm •5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
	YDD-850-465	850L, neck opening diameter 465mm	Includes vacuum hoses (GRG-DN10/2.0)	<ul style="list-style-type: none"> •Square Canister FTT-13-55 •Square Canister FTT-13-99 •Cryosmart Level Monitoring System SJMU-700N •50ml Blood Bag Cryogenic Rack YDCJ-7 •250ml Blood Bag Cryogenic Rack YDCJ-4 •Level Measuring Scale 1000mm •5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
	YDD-1000-465	1000L, neck opening diameter 465mm	Includes vacuum hoses (GRG-DN10/2.0)	<ul style="list-style-type: none"> •Square Canister FTT-15-55 •Square Canister FTT-15-99 •Cryosmart Level Monitoring System SJMU-700N •50ml Blood Bag Cryogenic Rack YDCJ-9 •250ml Blood Bag Cryogenic Rack YDCJ-5-II •Level Measuring Scale 1000mm •5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
	YDD-1300-635	1300L, neck opening diameter 635mm	Includes vacuum hoses (GRG-DN10/2.0)	<ul style="list-style-type: none"> •Square Canister FTT-10-55 •Square Canister FTT-10-99 •Cryosmart Level Monitoring System SJMU-700N •50ml Blood Bag Cryogenic Rack YDCJ-6 •250ml Blood Bag Cryogenic Rack YDCJ-3 •Level Measuring Scale 1000mm •5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
	YDD-1600-635	1600L, neck opening diameter 635mm	Includes vacuum hoses (GRG-DN10/2.0)	<ul style="list-style-type: none"> •Square Canister FTT-13-55 •Square Canister FTT-13-99 •Cryosmart Level Monitoring System SJMU-700N •50ml Blood Bag Cryogenic Rack YDCJ-7 •250ml Blood Bag Cryogenic Rack YDCJ-4 •Level Measuring Scale 1000mm •5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
	YDD-1800-635	1800L, neck opening diameter 635mm	Includes vacuum hoses (GRG-DN10/2.0)	<ul style="list-style-type: none"> •Square Canister FTT-15-55 •Square Canister FTT-15-99 •Cryosmart Level Monitoring System SJMU-700N •50ml Blood Bag Cryogenic Rack YDCJ-9 •250ml Blood Bag Cryogenic Rack YDCJ-5-II •Level Measuring Scale 1000mm •5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box

Accessories

Square Canister



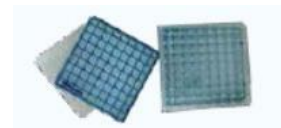
Cryosmart Level Monitoring System



Level Measuring Scale







Cryogenic Box



Specifications















Model	YDD-300-326	YDD-550-445	YDD-750-445	YDD-850-465								
Product Images												
Maximum storage capacity												
2ml vials (Internal thread)	13000	27000	37800	42900								
Freezer rack (100 wells)	12	24	24	32								
Freezer rack (25 wells)	4	12	12	4								
Layers of each rack	10	10	14	13								
0.5ml vials (Internal thread)	16900	35100	51300	56100								
Freeze Rack(100 wells)	12	24	24	32								
Freeze Rack(25 wells)	4	12	12	4								
Layers of each rack	13	13	19	17								
Performance												
Volume of LN2(L)	350	587	783	890								
Volume of LN2 under the tray (L)	55	80	80	135								
Dimensions												
Inside Neck Diameter(mm)	326	445	445	465								
Heigh(mm)	1263	1266	1499	1496								
Operating Height(mm)	1263	1266	1216	980								
Outside Diameter(mm)	875	1104	1104	1190								
Door Width Requirements(mm)	895	1124	1124	1210								
Empty Weight(KG)	219	328	372	441								
Gross Weight(KG)	502	802	1005	1160								
Blood Bags												
Bag Specifications	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks
25 ml	1296	7	216	2376	6	396	3168	8	396	3360	7	480
50 ml	792	7	132	1416	6	236	1888	8	236	2072	7	296
500 ml(DF-200)	168	4	56	336	3	112	560	5	112	544	4	136
250 ml	300	4	100	552	3	184	920	5	184	944	4	236
500 ml(4R9955)	192	4	64	408	3	136	680	5	136	640	4	160
700 ml	96	4	32	204	3	68	272	4	68	320	4	80

Specifications

Model	YDD-1000-465	YDD-1300-635	YDD-1600-635	YDD-1800-635								
Product Images												
Maximum storage capacity	49500	58500	76050	94875								
2ml vials (Internal thread)	32	54	54	60								
Freezer rack (100 wells)	4	18	18	13								
Freezer rack (25 wells)	15	10	13	15								
Layers of each rack	66000	81900	99450	126500								
0.5ml vials (Internal thread)	32	54	54	60								
Freeze Rack(100 wells)	4	18	18	13								
Freeze Rack(25 wells)	20	14	18	20								
Layers of each rack												
Performance												
Volume of LN2(L)	1014	1340	1660	1880								
Volume of LN2 under the tray (L)	135	265	300	320								
Dimensions												
Inside Neck Diameter(mm)	465	635	635	635								
Heigh(mm)	1517	1342	1534	1662								
Operating Height(mm)	950	997	967	1097								
Outside Diameter(mm)	1190	1565	1565	1565								
Door Width Requirements(mm)	1210	1585	1585	1585								
Empty Weight(KG)	495	851	914	985								
Gross Weight(KG)	1314	1934	2255	2504								
Blood Bags												
Bag Specifications	Total No. of Bags	Rack Layers	No. of Racks	Total No. of Bags	Rack Layers	No. of Racks	Total No. of Bags	Rack Layers	No. of Racks	Total No. of Bags	Rack Layers	No. of Racks
25 ml	4320	9	480	4716	6	786	5502	7	786	7758	9	862
50 ml	2664	9	296	2916	6	486	3402	7	486	4905	9	545
500 ml(DF-200)	680	5	136	666	3	222	888	4	222	1290	5	258
250 ml	1180	5	236	1170	3	390	1950	5	390	2095	5	419
500 ml(4R9955)	800	5	160	828	3	276	1380	5	276	1520	5	304
700 ml	400	5	80	396	3	132	528	4	132	775	5	155



Accessories and Consumables

Accessories	Model	Product Images	Applicable Model	Standard Equipped or Optional	Exterior Dimensions (mm)	Gross Weight (kg)	Other Description
Cryogenic Gloves	Special for low temperature, 320mm in length		Universal	Optional	320×150×10	0.08	Overall length 320mm
	Special for low temperature, 450mm in length		Universal	Optional	450×180×10	0.10	Overall length 450mm
	Special for low temperature, 720mm in length		Universal	Optional	720×200×20	0.12	Overall length 720mm
Square Canister	Square Canister FTT-10-55		YDD-350/550/1300	Optional	82×84×565	1.05	Used to store 2ml cryogenic boxes (5*5); 10 layers in total; suitable for YDD-350\550\1300 (excluding cryogenic boxes)
	Square Canister FTT-13-55		YDD-850/1600	Optional	82×84×733	1.37	Used to store 2ml cryogenic boxes (5*5); 13 layers in total; suitable for YDD-850\1600 (excluding cryogenic boxes)
	Square Canister FTT-14-55		YDD-750	Optional	82×84×789	1.48	Used to store 2ml cryogenic boxes (5*5); 14 layers in total; suitable for YDD-750 (excluding cryogenic boxes)
	Square Canister FTT-15-55		YDD-1000\1800	Optional	82×84×845	1.58	Used to store 2ml cryogenic boxes (5*5); 15 layers in total; suitable for YDD-1000\1800X2000 (excluding cryogenic boxes)
	Square Canister FTT-13-99		YDD-850/1600	Optional	142×144×733	2.66	Used to store 2ml cryogenic boxes (9*9); 13 layers in total; suitable for YDD-850\1600 (excluding cryogenic)
Square Canister	Square Canister FTT-14-99		YDD-750	Optional	142×144×789	2.91	Used to store 2ml cryogenic boxes (9*9); 4 layers in total; suitable for YDD-850\1600 (excluding cryogenic)
	Square Canister FTT-15-99		YDD-1000/1800/2000	Optional	142×144×845	3.15	Used to store 2ml cryogenic boxes (9*9); 15 layers in total; suitable for YDD-1000\1800\2000 (excluding cryogenic boxes)
Level Monitoring system	Cryosmart Level Monitoring System SJMU-700N		Suitable for Only YDD series	Optional	175×195×85	3.21	Suitable for all differential pressure measurement gas-phase liquid nitrogen containers; including the liquid inlet system and excluding the wireless data transmission module
Level Measuring Scale	Level Measuring Scale (600mm)		Suitable for aluminum containers below 20L (measuring length: 600mm)	Optional	60	0.12	Suitable for aluminium containers with capacity of no less than 20L (measuring length 600mm)
	Level Measuring Scale (1000mm)		Suitable for aluminum containers below 20L (measuring length: 1000mm)	Optional	100	0.18	Suitable for aluminium containers with capacity of no less than 20L (measuring length 1000mm)
Cryogenic Rack	Cryogenic Rack YDCJ-6	Irregular inventory; no picture available; to be customized	For 50ml blood bag; 1 blood bag in each cryogenic rack layer; 6 layers in total; including blood bag cryogenic box; suitable for YDD-300/550/1300	Optional	/	/	Used to store 50ml blood bag; 6 layers in total with each layer storing one blood bag; including blood bag cryogenic boxes; suitable for YD D-350/550/1300
	Cryogenic Rack YDCJ-7	Irregular inventory; no picture available; to be customized	For 50ml blood bag; 1 blood bag in each cryogenic rack layer; 7 layers in total; including blood bag cryogenic box; suitable for YDD-850/1600	Optional	/	/	Used to store 50ml blood bag; 7 layers in total with each layer storing one blood bag; including blood bag cryogenic boxes; suitable for YDD-850/1600
	Cryogenic Rack YDCJ-9	Irregular inventory; no picture available; to be customized	For 50ml blood bag; 1 blood bag in each cryogenic rack layer; 9 layers in total; including blood bag cryogenic box; suitable for YDD-1000/1800/2100	Optional	/	/	Used to store 50ml blood bag; 9 layers in total with each layer storing one blood bag; including blood bag cryogenic boxes; suitable for YD D-1000/1800/2100
	Cryogenic Rack YDCJ-3	Irregular inventory; no picture available; to be customized	For 250ml blood bag; 1 blood bag in each cryogenic rack layer; 3 layers in total; including blood bag cryogenic box; suitable for YDD-350/550/1300	Optional	/	/	Used to store 250ml blood bag; 3 layers in total with each layer storing one blood bag; including blood bag cryogenic boxes; suitable for YDD-350/550/1300
	Cryogenic Rack YDCJ-4	Irregular inventory; no picture available; to be customized	For 250ml blood bag; 1 blood bag in each cryogenic rack layer; 4 layers in total; including blood bag cryogenic box; suitable for YDD-850	Optional	/	/	Used to store 250ml blood bag; 4 layers in total with each layer storing one blood bag; including blood bag cryogenic boxes; suitable for YDD-850
	Cryogenic Rack YDCJ-5-11	Irregular inventory; no picture available; to be customized	For 250ml blood bag; 1 blood bag in each cryogenic rack layer; 5 layers in total; including blood bag cryogenic box; suitable for YDD-450/750/1000/1800/1900/2000	Optional	/	/	Used to store 250ml blood bag; 5 layers in total with each layer storing one blood bag; including blood bag cryogenic boxes; suitable for YDD-750/1000/1800/1900X2000
Flexible Metal Tubing	GB-DN15/1.5		Drift diameter: 10mm; length: 1.5m; special for self-pressurization containers	Optional	1500×20×20	1.20	Diameter of 10mm, length of 1.5m, suitable for YDZ series