

Small Vapor Phase Dewar

Scope of Application

Dual-mode LN₂ storage (vapor/liquid phase), provide real-time monitoring of temperature and liquid level. Configured with LN₂ auto-refill and remote alarm function to secure long-term preservation of embryos, vaccines, and reagents at research institutes, IVF centers, and CDC biobanks.

Key Features



Vapor and Liquid Phase Storage

Compatible with both gas and liquid phase storage modes, which can be flexibly selected according to needs.



Reliable Temperature Uniformity and Stability

Maintains below -180°C even on the top layer, ensuring uniform vapor phase storage; Internal temperature remains stable (below -150°C) even 48 hours after opening the lid.



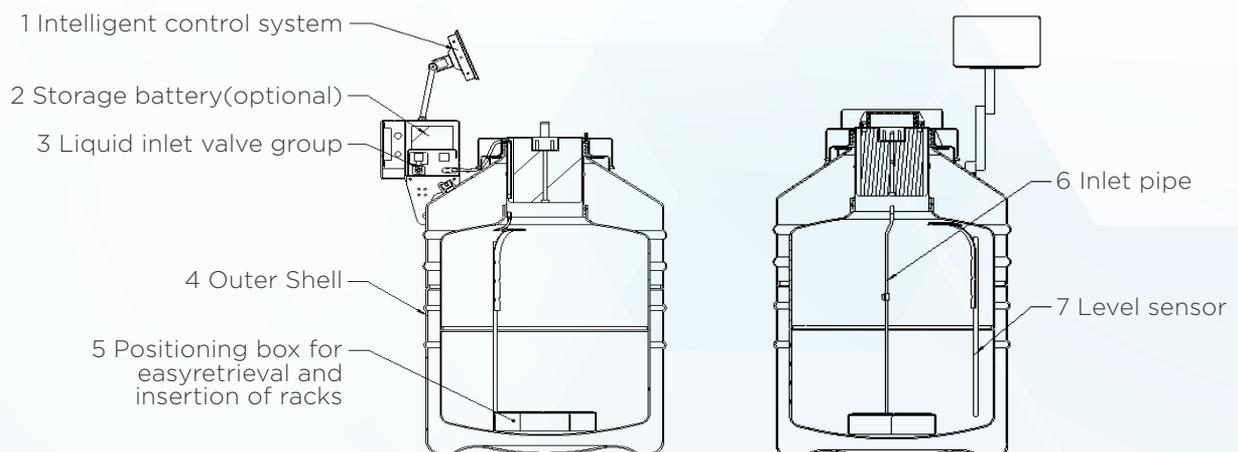
Data Storage Up to 10 Years

Temperature records can be download via USB and RS485.



Lightweight and Portable

Made of aviation aluminium, has excellent portability and durability.



Technical Parameters



Model	Cryobin 2400	Cryobin 3000	Cryobin 3600	Cryobin 4800	Cryobin 6000
Maximum Storage Volume					
No. of Square Racks	6	6	6	6	6
2ml Vials (100 wells/box)	2400	3000	3600	4800	6000
Layers in Rack	4	5	6	8	10
5ml Vials (81wells/box)	972	972	1458	1944	2430
Layers in Rack	2	2	3	4	5
Performance					
Volum of LN ₂ (L)	65	95	120	145	175
Static Evaporation Rate*(L/D)	1.2	1.2	1.2	1.5	1.5
Static Holding Time**(Day)	54	79	95	96	116
Bottom Volum of LN ₂ (L)	30	30	30	30	30
Vapor Phase Storage Time (Day)	25	25	25	20	20
Dimensions					
Neck Opening (mm)	216	216	216	216	216
Overall Height without controller (mm)	785	840	890	1040	1090
Overall Diameter (mm)	678	678	678	678	678
Empty Weight (kg)	51.7	54.2	57.2	65.2	66.5
Full Weight (kg)	61	65	66.5	79.3	84.2

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

Blood Bag Capacity

Model	Cryobin 2400			Cryobin 3000		
Blood Bag Spec.	Total No. of Bags	Rack Layers	No. of Racks (Every Layer)	Total No. of Bags	Rack Layers	No. of Racks (Every Layer)
25ml(791 OS/U)	168	2	14	252	3	14
50ml (4R9951)	84	1	14	84	1	14
200ml (DF-200)	30	1	5	30	1	5
250ml (4R9953)	48	1	8	48	1	8
500ml (4R9955)	36	1	6	36	1	6
700ml (DF-700)	/	/	/	/	/	/

Model	Cryobin 3600			Cryobin 4800		
Blood Bag Spec.	Total No. of Bags	Rack Layers	No. of Racks (Every Layer)	Total No. of Bags	Rack Layers	No. of Racks (Every Layer)
25ml(791 OS/U)	252	3	14	336	4	14
50ml (4R9951)	168	2	14	168	2	14
200ml (DF-200)	30	1	5	60	2	5
250ml (4R9953)	48	1	8	96	2	8
500ml (4R9955)	36	1	6	36	1	6
700ml (DF-700)	24	1	4	24	1	4

Model	Cryobin 6000		
Blood Bag Spec.	Total No. of Bags	Rack Layers	No. of Racks (Every Layer)
25ml(791 OS/U)	420	5	14
50ml (4R9951)	252	3	14
200ml (DF-200)	60	2	5
250ml (4R9953)	96	2	8
500ml (4R9955)	72	2	6
700ml (DF-700)	24	1	4

Product List

Cryobin Series	Accessory	Model	Description	Notes
Cryobin 2400	Rack	FTT-81-4	Used for storing 9*9 cryo boxes (2ml), 4 layers in total, with 9*9 cryo boxes included	Standard
	Lockable cap integrated	YTGS-216	Suitable for container with 216mm neck opening	
	Cryosmart level monitoring system	MJ-3000	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module	
	Storage battery	10Ah	In the event of a power outage, the smart monitoring system can remain on standby for up to 12 hours.	Optional
	Roller base	TC-175	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels	
Cryobin 3000	Rack	FTT-81-5	Used for storing 9*9 cryo boxes (2ml), 5 layers in total, with 9*9 cryo boxes included	Standard
	Lockable cap integrated	YTGS-216	Suitable for container with 216mm neck opening	
	Cryosmart level monitoring system	MJ-3000	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module	
	Storage battery	10Ah	In the event of a power outage, the smart monitoring system can remain on standby for up to 12 hours.	Optional
	Roller base	TC-175	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels	
Cryobin3600	Rack	FTT-81-6	Used for storing 9*9 cryo boxes (2ml), 6 layers in total, with 9*9 cryo boxes included	Standard
	Lockable cap integrated	YTGS-216	Suitable for container with 216mm neck opening	
	Cryosmart level monitoring system	MJ-3000	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module	
	Storage battery	10Ah	In the event of a power outage, the smart monitoring system can remain on standby for up to 12 hours.	Optional
	Roller base	TC-175	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels	
Cryobin 4800	Rack	FTT-81-8	Used for storing 9*9 cryo boxes (2ml), 6 layers in total, with 9*9 cryo boxes included	Standard
	Lockable cap integrated	YTGS-216	Suitable for container with 216mm neck opening	
	Cryosmart level monitoring system	MJ-3000	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module	
	Storage battery	10Ah	In the event of a power outage, the smart monitoring system can remain on standby for up to 12 hours.	Optional
	Roller base	TC-175	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels	
Cryobin 6000	Rack	FTT-81-10	Used for storing 9*9 cryo boxes (2ml), 10 layers in total, with 9*9 cryo boxes included	Standard
	Lockable cap integrated	YTGS-216	Suitable for container with 216mm neck opening	
	Cryosmart level monitoring system	MJ-3000	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module	
	Storage battery	10Ah	In the event of a power outage, the smart monitoring system can remain on standby for up to 12 hours.	Optional
	Roller base	TC-175	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels	