

thermo scientific



Thermo Scientific Cryopreservation Storage Equipment

Indefinite sample storage. Infinite possibilities.

ThermoFisher
SCIENTIFIC

reliable long-term storage solution

Thermo Scientific CryoPlus Sample Storage Systems

Thermo Scientific CryoPlus series provides the perfect combination of liquid nitrogen storage reliability and microprocessor technology. Storage capacities of up to 38,500 2.0 mL vials (8,450 to 65,910 Thermo Scientific™ Nunc™ Cryobank™ vials) make the most of your laboratory storage space.



Storage System Features

- Top-mounted control panel allows easy access to the CryoPlus' microprocessor controller for programming
- All lids incorporate foamed-in-place, high density urethane insulation with dedicated vent (U.S. Patent 5,779,089). Two independent, flexible gaskets reduce the migration of moisture into the chamber and reduce icing.
- 24 tricolor LEDs continuously display actual liquid nitrogen level and high-level/low-level setpoints
- Remote alarm contacts for in-house remote alarms or connection to a Sensaphone® Telephone Dialing System
- Counterbalanced UL 61010 third addition compliant lid with 100% clearance allows each entry into the storage area for retrieval of samples, while minimizing sample exposure time and maintaining a safe work environment.
- Heavy-duty casters are provided standard
- Incorporates a temperature sleeve as a standard feature, which provides colder temperatures at the top and more efficient operation in vapor phase
- Storage tanks are vacuum insulated with stainless steel interior
- Exterior cabinet is constructed of 18-gauge, cold roll steel with powder-coat paint for durability and a high quality uniform finish. Salt spray tests exceed 1,000 hours per ASTM Standard 117B-85
- All models come standard with LN₂ transfer hose

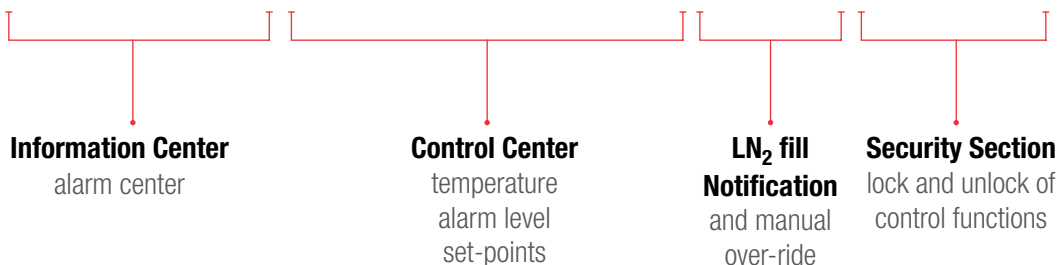
For maximum product security, CryoPlus incorporates three different solutions

- A convenient front-mounted cabinet key lock for sample security
- A keyed lock on the microprocessor for temperature and alarm set-point security
- A rear-mounted recessed power switch to prevent accidental power shut off

A complete sample storage solution offering for vapor or liquid phase

- Square and vertical racks for vial storage
- Frames and canisters for bag storage
- Specialty racks for cane storage
- Gas by-pass assembly delivers warm nitrogen to atmosphere until the control probe reaches set temperature. The by-pass valve closes and the fill valve is energized, preventing the storage area from being subjected to warm nitrogen gas. This is also required if the CryoPlus is connected to a manifold system to prevent LN₂ source alarms.

CryoPlus Information Panel



> Thermo Scientific CryoPlus Sample Storage Systems

Model	Model No.	LN ₂ Capacity (liters)	Vial Capacity 1.2-2.0 mL (CryoBank)	Electrical	Plug Type	Inner Tank Diameter in. (cm)	Exterior Dimensions H x W x D in. (cm)	Shipping Weight	Regulatory Listings	LN ₂ and Utility Connection
CryoPlus 1	7400	90	6,318 ¹ (8,450 ^{2,3})	115v/60 Hz	NEMA 5-15P	16 (40.6)	41 x 21.5 x 26 (104.1 x 54.6 x 66)	260 lbs/ 117.9kg	CFDA, cULus and CE	All models require 22 psi low pressure supply tank and are supplied with (1) 0.5 in. 45° flare stainless steel flexible transfer hose
	7401			208-230v/50 Hz	CEE 7/7					
CryoPlus 2	7402	200	13,500 ² (22,815 ^{2,3})	115v/60 Hz	NEMA 5-15P	24 (61)	41 x 28.5 x 34 (104.1 x 72.4 x 86.4)	480 lbs/ 217.7 kg		
	7403			208-230v/50 Hz	CEE 7/7					
CryoPlus 3	7404	340	23,000 ² (38,870 ^{2,3})	115v/60 Hz	NEMA 5-15P	31 (78.7)	41 x 34.5 x 41.5 (104.1 x 87.6 x 105.4)	550 lbs/ 249 kg		
	7405			208-230v/50 Hz	CEE 7/7					
CryoPlus 4	7406	552	39,000 ² (65,910 ^{2,3})	115v/60 Hz	NEMA 5-15P	39.5 (110.3)	47 x 43.5 x 50 (119.4 x 110.5 x 127)	1070 lbs/ 484.3 kg		
	7407			208-230v/50 Hz	CEE 7/7					

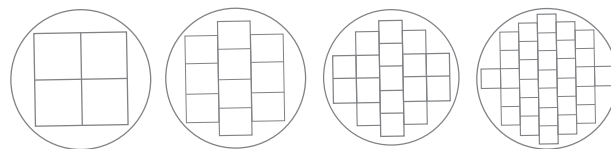
¹ Using arrowhead racks no. 4000044.

² Using vertical racks no. 4000012 and dense storage tube boxes.







³ Using Nunc Dense storage boxes (196-cell) and 1 mL Cryobank tubes.

> Thermo Scientific CryoPlus Vapor Phase Starter Kits

Model	Model No.	LN ₂ Capacity (liters)	Electrical	Description
CryoPlus 1 Vapor Phase Starter Kit	7400RAKHGGBR	90	120V 50/60Hz	Package includes CryoPlus 1 (model 7400) and a hot gas bypass option, 4 storage rack and a 3.5" riser, UL
	7401RAKHGGBR		230V 50/60Hz	Package includes CryoPlus 1 (model 7401) and a hot gas bypass option, 4 storage rack and a 3.5" riser, CE
CryoPlus 2 Vapor Phase Starter Kit	7402RAKHGGBR	200	120V 50/60Hz	Package includes CryoPlus 2 (model 7402) and a hot gas bypass option, 10 storage rack and a 3.5" riser, UL
	7403RAKHGGBR		230V 50/60Hz	Package includes CryoPlus 2 (model 7403) and a hot gas bypass option, 10 storage rack and a 3.5" riser, CE
CryoPlus 3 Vapor Phase Starter Kit	7404RAKHGGBR	340	120V 50/60Hz	Package includes CryoPlus 3 (model 7404) and a hot gas bypass option, 17 storage rack and a 3.5" riser, UL
	7405RAKHGGBR		230V 50/60Hz	Package includes CryoPlus 3 (model 7405) and a hot gas bypass option, 17 storage rack and a 3.5" riser, CE
CryoPlus 4 Vapor Phase Starter Kit	7406RAKHGGBR	552	120V 50/60Hz	Package includes CryoPlus 4 (model 7406) and a hot gas bypass option, 29 storage rack and a 3.5" riser, UL
	7407RAKHGGBR		230V 50/60Hz	Package includes CryoPlus 4 (model 7407) and a hot gas bypass option, 29 storage rack and a 3.5" riser, CE










> CryoPlus Rack Selection Guide

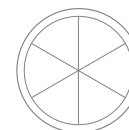
Model No. & Description	Dimensions H x W x D in. (cm)	Storage	CryoPlus 1	CryoPlus 2	CryoPlus 3	CryoPlus 4
Square Racks for Liquid Phase Storage						
 <p>4000006*</p> <p>Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials</p>	27.4 x 5.5 x 5.63 (69.6 x 14 x 14.3)	Racks per vessel	4	10	17	29
		Boxes per rack	13	13	13	13
		Vials per box	100	100	100	100
		Vials per vessel	5,200	13,000	22,100	37,700
 <p>4000007</p> <p>Rack includes stainless steel boxes and cardboard dividers for 1.5/2 mL vials</p>	27.4 x 5.5 x 5.63 (69.6 x 14 x 14.3)	Racks per vessel	4	10	17	29
		Boxes per rack	13	13	13	13
		Vials per box	100	100	100	100
		Vials per vessel	5,200	13,000	22,100	37,700
 <p>4000042</p> <p>Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials</p>	26 x 5.5 x 5.63 (66 x 14 x 14.3)	Racks per vessel	4	10	17	29
		Boxes per rack	12	12	12	12
		Vials per box	100	100	100	100
		Vials per vessel	4,800	12,000	20,400	34,800
 <p>4000008</p> <p>Rack includes cardboard boxes and cardboard dividers for 4 mL vials</p>	25.4 x 5.5 x 5.63 (64.5 x 14 x 14.3)	Racks per vessel	4	10	17	29
		Boxes per rack	8	8	8	8
		Vials per box	100	100	100	100
		Vials per vessel	3,200	8,000	13,600	23,200
 <p>4000009</p> <p>Rack includes stainless steel boxes and cardboard dividers for 4 mL vials</p>	25.4 x 5.5 x 5.63 (64.5 x 14 x 14.3)	Racks per vessel	4	10	17	29
		Boxes per rack	8	8	8	8
		Vials per box	100	100	100	100
		Vials per vessel	3,200	8,000	13,600	23,200
 <p>4000010</p> <p>Rack includes cardboard boxes and cardboard dividers for 5 mL vials</p>	26.6 x 5.5 x 5.63 (67.6 x 14 x 14.3)	Racks per vessel	4	10	17	29
		Boxes per rack	7	7	7	7
		Vials per box	100	100	100	100
		Vials per vessel	2,800	7,000	11,900	20,300

*Rack no. 4000006 will not accommodate polycarbonate boxes; use rack no. 4000042 instead.

> CryoPlus Rack Selection

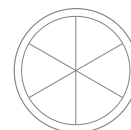
Model No. & Description	Dimensions H x W x D in. (cm)	Storage	CryoPlus 1	CryoPlus 2	CryoPlus 3	CryoPlus 4	
Square Racks for Vapor Phase Storage							
	4000001	23.9 x 5.5 x 5.63 (60.7 x 14 x 14.3)	Racks per vessel	4	10	17	29
	Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials		Boxes per rack	11	11	11	11
			Vials per box	100	100	100	100
			Vials per vessel	4,400	11,000	18,700	31,900
	4000002	23.9 x 5.5 x 5.63 (60.7 x 14 x 14.3)	Racks per vessel	4	10	17	29
	Rack includes stainless steel boxes for 1.5/2 mL vials		Boxes per rack	11	11	11	11
			Vials per box	100	100	100	100
			Vials per vessel	4,400	11,000	18,700	31,900
	4000003	22.3 x 5.5 x 5.63 (56.6 x 14 x 14.3)	Racks per vessel	4	10	17	29
	Rack includes cardboard boxes and cardboard dividers for 4 mL vials		Boxes per rack	7	7	7	7
			Vials per box	100	100	100	100
			Vials per vessel	2,800	7,000	11,900	20,300
	4000004	22.3 x 5.5 x 5.63 (56.6 x 14 x 14.3)	Racks per vessel	4	10	17	29
	Rack includes stainless steel boxes and cardboard dividers for 4 mL vials		Boxes per rack	7	7	7	7
			Vials per box	100	100	100	100
			Vials per vessel	2,800	7,000	11,900	20,300
	4000005	22.8 x 5.5 x 5.63 (57.9 x 14 x 14.3)	Racks per vessel	4	10	17	29
	Rack includes cardboard boxes and cardboard dividers for 5 mL vials		Boxes per rack	6	6	6	6
			Vials per box	100	100	100	100
			Vials per vessel	2,400	6,000	10,200	17,400
Specialty Racks							
	4000379	23.9 x 5.5 x 5.63 (60.7 x 14 x 14.3)	Racks per vessel	4	10	17	29
	SUC-1 rack for cane storage (includes canisters #4000176)		Canisters per rack	8	8	8	8
			Canes per canister	25	25	25	25
			Canes per vessel	800	2,000	3,400	5,800
Platform Risers Required for Racks in Vapor Phase Storage							
	3.5" riser for use with 4000001, 4000002, and 4000379 racks		4000060	4000060	4000063	4000066	
	4" riser for use with 4000005 racks		4000056	4000062	4000065	4000068	
	5" riser for use with 4000003 and 4000004 racks		4000061	4000061	4000064	4000067	

* Each canister will hold 25 canes without cryo sleeves or 16 canes with cryosleeves



➤ Arrowhead Racks for Liquid Phase Storage

	Model No. & Description	Dimensions H x W x D in. (cm)	Storage	CryoPlus 1
	4000044	28.1 x 7.8 x 7.5 (71.4 x 19.8 x 19.1)	Racks per vessel	6
	Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials		Boxes per rack	13
			Vials per box	81
			Vials per vessel	6,318
	4000112	26 x 7.8 x 7.5 (66 x 19.8 x 19.1)	Racks per vessel	6
	Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials		Boxes per rack	12
			Vials per box	81
			Vials per vessel	5,832
	4000113	26 x 7.8 x 7.5 (66 x 19.8 x 19.1)	Racks per vessel	6
	Rack includes stainless steel boxes and cardboard dividers for 1.5/2 mL vials		Boxes per rack	12
			Vials per box	81
			Vials per vessel	5,832
	4000104	25.4 x 7.8 x 7.5 (64.5 x 19.8 x 19.1)	Racks per vessel	6
	Rack includes cardboard boxes and cardboard dividers for 4 mL vials		Boxes per rack	8
			Vials per box	81
			Vials per vessel	3,888
	4000105	25.4 x 7.8 x 7.5 (64.5 x 19.8 x 19.1)	Racks per vessel	6
	Rack includes stainless steel boxes and cardboard dividers for 4 mL vials		Boxes per rack	8
			Vials per box	81
			Vials per vessel	3,888
	4000043	26.5 x 7.8 x 7.5 (67.3 x 19.8 x 19)	Racks per vessel	6
	Rack includes cardboard boxes and cardboard dividers for 5 mL vials		Boxes per rack	7
			Vials per box	81
			Vials per vessel	3,402



> Arrowhead Racks for Vapor Phase Storage

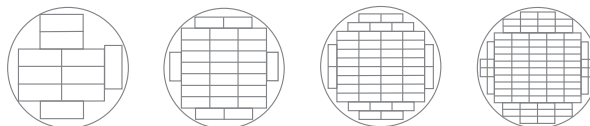
	Model No. & Description	Dimensions H x W x D in. (cm)	Storage	CryoPlus 1
	4000110	23.8 x 7.8 x 7.5 (60.5 x 19.8 x 19.1)	Racks per vessel	6
	Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials		Boxes per rack	11
			Vials per box	81
			Vials per vessel	5,346
	4000111	23.8 x 7.8 x 7.5 (60.5 x 19.8 x 19.1)	Racks per vessel	6
	Rack includes stainless steel boxes and cardboard dividers for 1.5/2 mL vials		Boxes per rack	11
			Vials per box	81
			Vials per vessel	5,346
	4000108	21.6 x 7.8 x 7.5 (54.9 x 19.8 x 19.1)	Racks per vessel	6
	Rack includes cardboard boxes and cardboard dividers for 2 mL vials		Boxes per rack	10
			Vials per box	81
			Vials per vessel	4,860

> Platform Risers Required for Racks in Vapor Phase Storage


	Description of Riser and Racks for Intended Use	CryoPlus 1
	3.5 in. riser for use with 4000110 and 4000111 racks	4000060
	5 in. riser for use with 4000108 racks	4000061


> Arrowhead Boxes and Dividers for Vapor Phase Storage


	Model No.	Description
	Boxes	
	4000193	Arrowhead cardboard box (with drain hole) includes 81-cell divider for use with 1.5/2 mL vials
	4000194	Arrowhead stainless steel box (with drain hole) does not include 81-cell divider for use with 1.5/2 mL vials
	4000195	Arrowhead cardboard box (with drain hole) includes 81-cell divider for use with 4/5 mL vials
	4000196	Arrowhead stainless steel box (with drain hole) does not include 81-cell divider for use with 4 mL vials
	Cell Dividers	
4000181	81-cell divider for use with all arrowhead boxes	




> Vertical Racks for Liquid Phase Storage

Model No. & Description	Dimensions H x W x D in. (cm)	Storage	CryoPlus 1	CryoPlus 2	CryoPlus 3	CryoPlus 4	
Vertical Rack for Liquid Phase Storage							
	4000012	27.6 x 2.3 x 5.7 (70.1 x 5.8 x 14.5)	Racks per vessel	10	27	46	78
	Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials		Boxes per rack	5	5	5	5
			Vials per box	100	100	100	100
			Vials per vessel	5,000	13,500	23,000	39,000







Vertical Rack for Vapor Phase Storage							
	4000011	22.2 x 2.3 x 5.7 (56.4 x 5.8 x 14.5)	Racks per vessel	10	27	46	78
	Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials		Boxes per rack	4	4	4	4
			Vials per box	100	100	100	100
			Vials per vessel	4,000	10,800	18	31,200

Platform Risers Required for Racks in Vapor Phase Storage							
Description of riser and racks for intended use							
	5 in. riser for use with 4000011 racks			4000061	4000061	4000064	4000067





> Boxes and Dividers

Model No.	Description
 4000014	Cardboard box with 100-cell divider for use with 1.5/2 mL vials (does have drain hole)
820010	Polycarbonate box with 100-cell divider for use with 1.5/2 mL vials with internal threaded caps (does have drain hole)
820011	Polycarbonate box with 81-cell divider for use with 1.5/2 mL vials (does have drain hole)


> Frames and Canisters for Liquid Phase Storage

Model No. & Description		Dimensions H x W x D in. (cm)	Storage	CryoPlus 1	CryoPlus 2	CryoPlus 3	CryoPlus 4
	4000670	27.4 x 0.6 x 4.6 (69.6 x 1.5 x 11.7)	Frames per vessel	28	72	124	204
	Frame for 4000610 canister		Canisters per frame	7	7	7	7
			Canisters per vessel	196	504	868	1,428
	1900585	27.4 x 0.6 x 3.8 (69.6 x 1.5 x 9.7)	Frames per vessel	34	100	184	314
	Frame for 1950831 canister		Canisters per frame	7	7	7	7
			Canisters per vessel	238	700	1,288	2,198
	4000371	23.7 x 0.6 x 6.5 (60.2 x 1.5 x 16.5)	Frames per vessel	28	68	108	186
	Frame for 4000335 canister		Canisters per frame	4	4	4	4
			Canisters per vessel	112	272	432	744
	4000372	23.8 x 0.7 x 8.2 (60.5 x 1.8 x 20.8)	Frames per vessel	22	50	90	154
	Frame for 4000336 canister		Canisters per frame	4	4	4	4
			Canisters per vessel	88	200	360	616
	4000368	26.4 x 0.9 x 6.1 (67.1 x 2.3 x 15.5)	Frames per vessel	19	46	72	126
	Frame for 4000332 and 4000356 canisters		Canisters per frame	4	4	4	4
			Canisters per vessel	76	184	288	504
	4000369	26.4 x 1 x 10 (67.1 x 2.5 x 25.4)	Frames per vessel	10	28	48	84
	Frame for 4000333 and 4000357 canisters		Canisters per frame	4	4	4	4
			Canisters per vessel	40	112	192	336

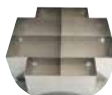
> Frames and Canisters for Vapor Phase Storage

Model No. & Description		Dimensions H x W x D in. (cm)	Storage	CryoPlus 1	CryoPlus 2	CryoPlus 3	CryoPlus 4
	4000660	23.5 x 0.6 x 4.6 (59.7 x 1.5 x 11.7)	Frames per vessel	28	72	124	204
	Frame for 4000610 canister		Canisters per frame	6	6	6	6
			Canisters per vessel	168	432	744	1,224
	1900584	23.5 x 0.6 x 3.8 (59.7 x 1.5 x 9.7)	Frames per vessel	34	100	184	314
	Frame for 1950831 canister		Canisters per frame	6	6	6	6
			Canisters per vessel	204	600	1,104	1,884
	4000371	23.7 x 0.6 x 6.5 (60.2 x 1.5 x 16.5)	Frames per vessel	28	68	108	186
	Frame for 4000335 canister		Canisters per frame	4	4	4	4
			Canisters per vessel	112	272	432	744
	4000372	23.8 x 0.7 x 8.2 (60.5 x 1.8 x 20.8)	Frames per vessel	22	50	90	154
	Frame for 4000336 canister		Canisters per frame	4	4	4	4
			Canisters per vessel	88	200	360	616









> Platform Risers Required for Frames in Vapor Phase Storage

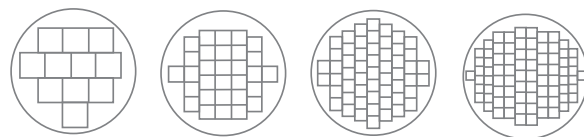
	Description of riser and frames for intended use	CryoPlus 1	CryoPlus 2	CryoPlus 3	CryoPlus 4
	3.5 in. riser for use with 4000371 and 4000372 frames	4000060	4000060	4000063	4000066
	4 in. riser for use with 4000660 frames	4000056	4000062	4000065	4000068

Platform Dividers for the Above Frames

	Description of platform divider and frames for intended use	CryoPlus 1	CryoPlus 2	CryoPlus 3	CryoPlus 4
	Platform divider for use with 4000660 and 4000670 25 mL frames: 1900584 and 1900585	4000616	4000624	4000631	4000639
	Platform divider for use with 4000371 frames	N/A	4000075	4000050	4000053
	Platform divider for use with 4000372 frames	N/A	4000076	4000051	4000054
	Platform divider for use with 4000368 frames	N/A	N/A	4000047	4000052
	Platform divider for use with 4000369 frames	N/A	N/A	4000048	N/A

Canisters for the Above Frames

	Model No. & Description	Dimensions H x W x D in. (cm)
	1950831 Sliding canister for 25 mL bag	3.6 x 3.915 x .375 (9.14 x 9.94 x 0.95)
	4000610 Swing arm canister for 50 mL bag (Fenwal 4R9951 or equivalent)	3.7 x 6.3 x 0.5 (9.4 x 16 x 1.3)
	4000335 Sliding canister for 250 mL bag (Fenwal 4R5461 or equivalent)	5.5 x 7.6 x 0.4 (14 x 19.3 x 1)
	4000336 Sliding canister for 500 mL bag (Fenwal 4R5462 or equivalent)	5.6 x 9.2 x 0.4 (14.2 x 23.4 x 1)
	4000332 Sliding canister for 200 mL bag (Gambro DF-200 or equivalent)	6.4 x 7.8 x 0.8 (16.3 x 19.1 x 2)
	4000356 Swing arm canister for 200 mL bag (Gambro DF-200 or equivalent)	6.4 x 7.8 x 0.8 (16.3 x 19.1 x 2)
	4000333 Sliding canister for 700 mL bag (Gambro DF-700 or equivalent)	6.5 x 11.8 x 0.8 (16.5 x 30 x 2)
	4000357 Swing arm canister for 700 mL bag (Gambro DF-700 or equivalent)	6.5 x 12.1 x 0.8 (16.5 x 30.7 x 2)



> Mini Square Racks for Liquid Phase Storage



Model No. & Description	Dimensions H x W x D in. (cm)	Storage	CryoPlus 1	CryoPlus 2	CryoPlus 3	CryoPlus 4
4000260	26.2 x 3.3 x 3.4 (66.5 x 8.4 x 8.6)	Racks per vessel	11	30	55	92
Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials		Boxes per rack	12	12	12	12
		Vials per box	25	25	25	25
		Vials per vessel	3,300	9,000	16,500	27,600

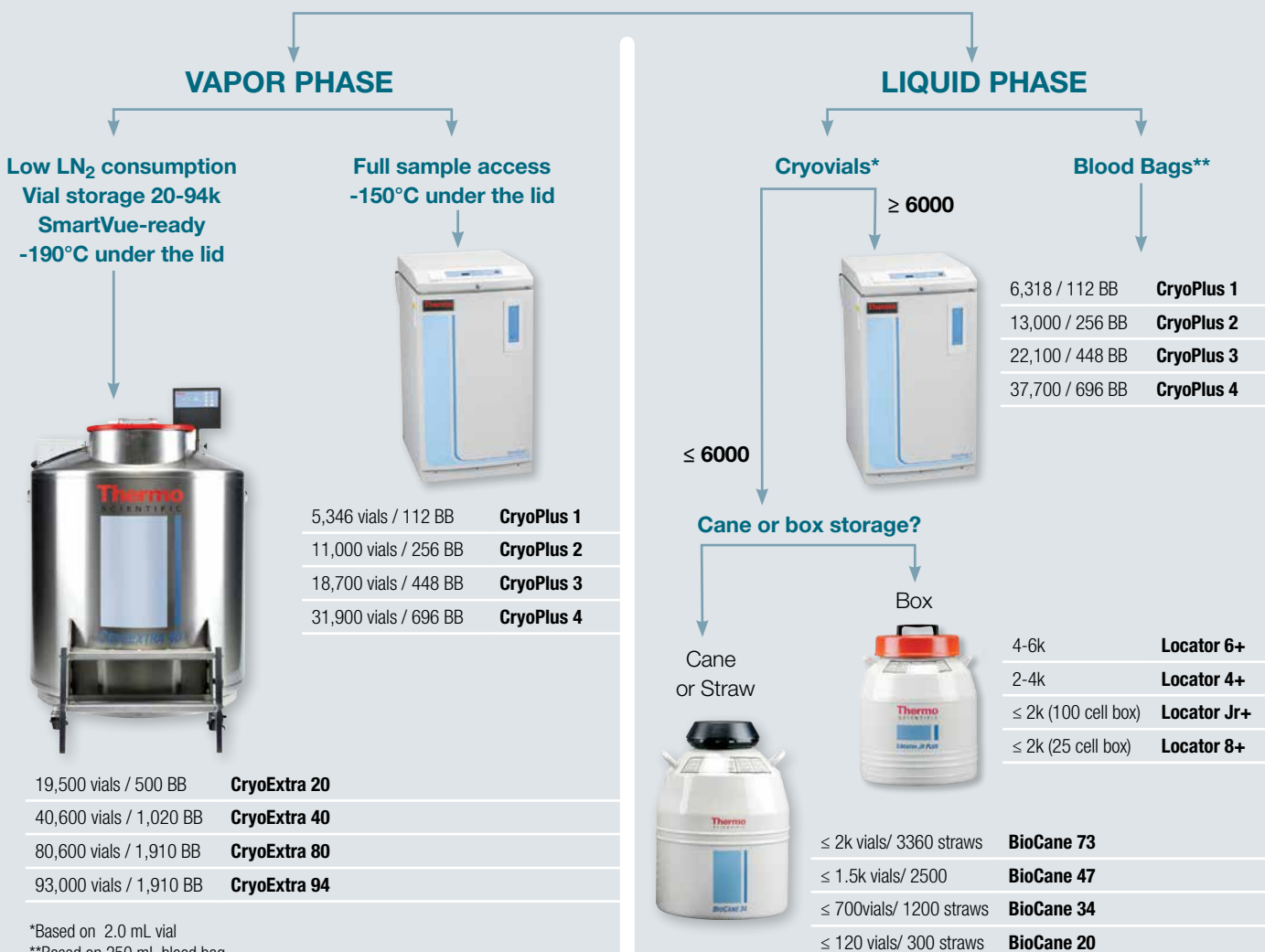
> Mini Boxes for Liquid Phase Storage



Model No.	Description
Boxes 189470	Mini cardboard box - 2.75 in. x 2.75 in. x 2 in. for use with 25-cell divider for use with 1.5/2 mL vials
Cell Dividers 189387	25-cell divider for use in the 189470 box

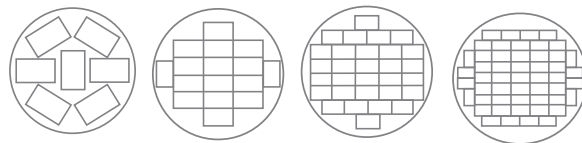
LN₂ Cryo Storage Selector Guide

VAPOR OR LIQUID PHASE STORAGE?











*Based on 2.0 mL vial


**Based on 250 mL blood bag



> Racks for Thermo Scientific™ Matrix 2D™ Tubes

Model No. & Description		Dimensions H x W x D in. (cm)	Storage	CryoPlus 1	CryoPlus 2	CryoPlus 3	CryoPlus 4
Liquid Phase							
	1950836	27 x 5.313 x 3.65 (68.6 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
	Rack for Matrix 2D plates measuring 1.082 in. to 1.394 in. tall		Plates per rack	18	18	18	18
	Plates per vessel		126	288	900	918	
	1950839	27.15 x 5.313 x 3.65 (69 x 13.5 x 9.3)	Racks Per vessel	7	16	30	51
	Rack for Matrix 2D plates measuring 1.55 in. to 2.15 in. tall		Plates per rack	12	12	12	12
	Plates per vessel		84	192	360	612	
	1950840	27.5 x 5.313 x 3.65 (69.9 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
	Rack for Matrix 2D plates measuring 2.3 in. tall		Plates per rack	11	11	11	11
	Plates per vessel		77	176	330	561	
	1950841	27.5 x 5.313 x 3.65 (69.9 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
	Rack for Matrix 2D plates measuring 3.78 in. tall		Plates per rack	7	7	7	7
	Plates per vessel		49	112	210	357	
Vapor Phase							
	1950832	22.5 x 5.313 x 3.65 (57.2 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
	Rack for Matrix 2D plates measuring 1.082 in. to 1.394 in. tall		Plates per rack	15	15	15	15
	Plates per vessel		105	240	450	765	
	1950833	22.6 x 5.313 x 3.65 (57.4 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
	Rack for Matrix 2D plates measuring 1.55 in. to 2.15 in. tall		Plates per rack	10	10	10	10
	Plates per vessel		70	160	300	510	
	1950834	22.5 x 5.313 x 3.65 (57.2 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
	Rack for Matrix 2D plates measuring 2.3 in. tall		Plates per rack	9	9	9	9
	Plates per vessel		63	144	270	459	
	1950835	19.65 x 5.313 x 3.65 (49.9 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
	Rack for Matrix 2D plates measuring 3.78 in. tall		Plates per rack	5	5	5	5
	Plates per vessel		35	80	150	255	





Platform risers required for racks in vapor phase storage

Description of riser and racks for intended use	CryoPlus 1	CryoPlus 2	CryoPlus 3	CryoPlus 4
 5 in. riser for use with 1950832, 1950833, 1950834, and 1950835 racks	4000061	4000061	4000064	4000067

> Boxes and Dividers

Model No.	Description
Boxes	
4000014	Cardboard box with 100-cell divider for use with 1.5/2 mL vials (does have drain hole)
4000015	Cardboard box with 100-cell divider for use with 4/5 mL vials (does have drain hole)
820010	Polycarbonate box with 100-cell divider for use with 1.5/2 mL vials with internal threaded caps (does have drain hole)
820011	Polycarbonate box with 81-cell divider for use with 1.5/2 mL vials (does have drain hole)
4000238	Stainless steel box for 1.5/2 mL vials (does not include 100-cell divider)
4000239	Stainless steel box for 4 mL vials (does not include 100-cell divider)
Cell Dividers	
4000013	100-cell divider for use in the 4000014, 4000015, 4000238, and 4000239 boxes

> Other Accessories for CryoPlus

Model No. & Description	CryoPlus 1	CryoPlus 2	CryoPlus 3	CryoPlus 4
Recorder Kit				
 Factory installed - 120 volt, 50/60 Hz with 6 in. diameter circular chart, 7-day temperature recorder, pen and chart drive (Specify – top, left and right side mount – right side is default if not specified)			201175	
Factory installed - 220 volt, 50/60 Hz with 6 in. diameter circular chart, 7-day temperature recorder, pen and chart drive (Specify – top, left and right side mount – right side is default if not specified)			201280	
Replacement Felt Tip Pen			245231	
Replacement Circular Chart Paper			197064	
Hot Gas By-Pass Valve Assembly				
 Factory installed – 120 volt, 50/60 Hz			195021	
Field installed (QI) – 120 volt, 50/60 Hz			195700	
Factory installed – 220 volt, 50/60 Hz			195023	
Field installed (QI) – 220 volt, 50/60 Hz			195701	
Thermal Temperature Sleeve (27" Tall for Improved Temperature Uniformity)				
 Factory installed	1950720	1950721	Standard	
Customer installed/retrofit	1950706	1950707	1950708	1950709
Thermal Data Printer				
 120V, 60 Hz Printer with cable assembly and RS-232 connector kit			4000565	
220V, 50 Hz Printer with cable assembly and RS-232 connector kit			4000665	
Thermal printer paper (5 rolls/package)			4000566	
RJ-11 Remote Alarm Cable Kit				
Used to connect remote alarm to equipment			400142	

> Quality Services Available (Must be ordered with equipment)

260049	Certification of Compliance (Unit Specific)
260045	Temperature Mapping
260043	Certificate of Conformance