

Thermo Scientific CryoPlus Storage Systems

Thermo Scientific storage systems offer the ideal combination of liquid nitrogen storage reliability and microprocessor technology.

The CryoPlus Series LN₂ Storage system provides precise and accurate control over all parameters without complicated programming. Storage capacities of up to 38,500 vials (2.0mL) make the most of your valuable laboratory storage space.



Sixteen preset audible and visual alarm combinations provide maximum product protection. Automatic defogger is incorporated into the manual fill index to improve visibility during retrieval.

Microprocessor Control

- Precise liquid level control over 16 parameters; with autofill system
- Control panel is mounted on top for convenient access and easy touchpad programming
- Digital temperature display sensor is located under the lid; this indicates the highest temperature reading inside the tank
- 24 tricolor LEDs continuously display actual liquid nitrogen level and high-level/low-level setpoints
- Alarm contacts for remote monitoring of storage tank conditions

Durable Construction

- Low-profile tank with vacuum-insulated, stainless-steel chamber
- Counterbalanced lid with foamed-in-place, high density polyurethane insulation; patented, dedicated vent; 100% clearance

- Two independent, flexible lid gaskets reduce moisture migration into the chamber
- Liquid level sensor and fill port within vacuum space, for maximum storage and sensor protection
- Front-mounted key lock and rear-mounted recessed power switch; control panel can also be locked
- Temperature sleeve (included) provides colder temperatures and efficient vapor phase operation
- Heavy-duty casters

Ordering Information: Optional racks, canisters, frames, and risers allow you to create an organized inventory system that provides optimum storage in liquid or vapor phase. Contact your customer service representative for details.

Includes: CryoPlus 1 has 0.5" 45° flare, 4' (1.2m) flexible hose. CryoPlus 2, 3, and 4 come with 0.5" 45° flare, 6' (1.8m) flexible hose.

Warranty: One year parts

Compliance: UL listed to U.S. and Canadian requirements; CE marked

Product Specifications and Ordering Information

Cat. No.	Capacity	Vial Capacity†	Rack[s]	Evaporation Rate	Static Holding Time	Reservoir D x Dia.	Exterior L x W x H	Weight (Empty/Full)	Voltage (Plug Type)
CryoPlus 1									
7400	90L (23.75 gal.)	5500 to 6318	4 sq., 11 vert., or 6 arrowhead	3L/day (0.75 gal./day)	30 days	69.9 × 40.6cm (27.5 × 16")	66 × 54.6 × 104cm (26 × 21.5 × 41")	97.1kg (214 lb.); 160.6kg (354 lb.); 117.9kg (260 lb.)	100/120V 50/60Hz (NEMA 5-15P)
7401	90L (23.8 gal.)	5500 to 6318	4 sq., 11 vert., or 6 arrowhead	3L/day (0.75 gal./day)	30 days	69.9 × 40.6cm (27.5 × 16")	66 × 54.6 × 104.1cm (26 × 21.5 × 41")	97.1kg (214 lb.); 160.6kg (354 lb.); 117.9kg (260 lb.)	200/230V 50/60Hz (CEE 7/7)
CryoPlus 2									
7402	200L (52.75 gal.)	13,000	10 sq. or 26 vert.	5L/day (1.25 gal./day)	40 days	69.9 × 61cm (27.5 × 24")	86.4 × 72.4 × 104.1cm (34 × 28.5 × 41")	147.4kg (325 lb.); 308.4kg (680 lb.); 217.7kg (480 lb.)	100/120V 50/60Hz (NEMA 5-15P)
7403	200L (52.8 gal.)	13,000	10 sq. or 26 vert.	5L/day (1.25 gal./day)	40 days	69.9 × 61cm (27.5 × 24")	86.4 × 72.4 × 104.1cm (34 × 28.5 × 41")	147.4kg (325 lb.); 308.4kg (680 lb.); 217.7kg (480 lb.)	200/230V 50/60Hz (CEE 7/7)
CryoPlus 3									
7404	340L (89.75 gal.)	22,100 to 24,000	17 sq. or 48 vert.	8L/day (2.13 gal./day)	42.5 days	69.9 × 78.7cm (27.5 × 31")	105.4 × 87.6 × 104.1cm (41.5 × 34.5 × 41")	188.7kg (416 lb.); 463.1kg (1021 lb.); 249kg (550 lb.)	100/120V 50/60Hz (NEMA 5-15P)
7405	340L (89.8 gal.)	22,100 to 24,000	17 sq. or 48 vert.	8L/day (2.13 gal./day)	42.5 days	69.9 × 78.7cm (27.5 × 31")	105.4 × 87.6 × 104.1cm (41.5 × 34.5 × 41")	188.7kg (416 lb.); 463.1kg (1021 lb.); 249kg (550 lb.)	200/230V 50/60Hz (CEE 7/7)
CryoPlus 4									
7406	552L (145.75 gal.)	36,400 to 38,500	31 sq. or 77 vert.	10L/day (2.63 gal./day)	55 days	69.9 × 100.3cm (27.5 × 39.5")	127 × 110.5 × 119.4cm (50 × 43.5 × 47")	371.9kg (820 lb.); 734.8kg (1620 lb.); 485.3kg (1070 lb.)	100/120V 50/60Hz (NEMA 5-15P)
7407	552L (145.8 gal.)	36,400 to 38,500	31 sq. or 77 vert.	10L/day (2.63 gal./day)	55 days	69.9 × 100.3cm (27.5 × 39.5")	127 × 110.5 × 119.4cm (50 × 43.5 × 47")	371.9kg (820 lb.); 734.8kg (1620 lb.); 485.3kg (1070 lb.)	200/230V 50/60Hz (CEE 7/7)

† 2mL vials based on rack configuration. Ask your customer service representative about other vial, bag and can capacities.

Specifications

Color	White
Body	18-gauge cold-rolled steel with powder-coated paint
Reservoir	Stainless steel
With Level Monitor	Yes
With Autofill System	Yes

Ask your customer service representative about Thermo Scientific racks and accessories for CryoPlus Storage Systems.

Static evaporation rates and holding times are based on new vessel performance, without any product load, or lid openings, and in a controlled environment. Actual working performance will vary with individual applications. Excludes supply tank evaporation. Total LN2 consumption will vary greatly depending on product loads, lid openings, fill cycles, and supply tank evaporation rate.

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North America: USA/Canada +1 866 984 3766 (866-9-THERMO)

www.thermo.com/cold

Europe: Austria +43 1 801 40 0, Belgium +32 2 482 30 30, France +33 2 2803 2180, Germany national toll free 08001-536 376, Germany international +49 6184 90 6940, Italy +39 02 02 95059 434-254-375, Netherlands +31 76 571 4440, Nordic/Baltic countries +358 9 329 100, Russia/CIS +7 (812) 703 42 15, Spain/Portugal +34 93 223 09 18, Switzerland +41 44 454 12 12, UK/Ireland +44 870 609 9203

Asia: China +86 21 6865 4588 or +86 10 8419 3588, India toll free 1800 22 8374, India +91 22 6716 2200, Japan +81 45 453 9220,

Other Asian countries +852 2885 4613 **Countries not listed:** +49 6184 90 6940 or +33 2 2803 2180

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