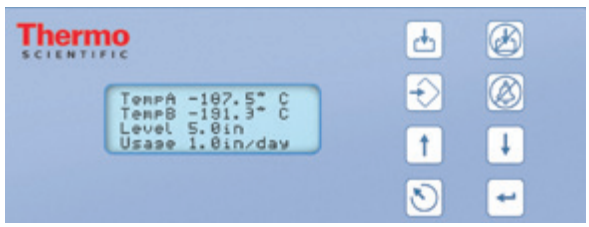
high-efficiency storage

Thermo Scientific CryoExtra Cryogenic Storage

Our new CryoExtra™ 8100 series high-efficiency storage solutions provide outstanding sample protection for scientific research with uniform cryogenic temperatures throughout the vessel. Automated temperature monitoring and microprocessor-based LN_2 level control provide peace-of-mind for valuable samples. Ease-of-use is ensured with built-in steps, flat workspace, and ergonomic lids. All vessels can accommodate both vapor and liquid phase storage.

- Four capacities from 463 L to 1,770 L
- Sample capacity from 19,500 up to 93,000 1.2 – 2.0 mL vials (30,420 to 152,100 CryoBank vials)
- Minimal footprint – 1,770 L model has the same exterior footprint as the 1,745 L unit, saving valuable lab space
- Outstanding temperature uniformity
- Stable lid opening temperature
- Advanced temperature monitor and alarms
- Automated fill and level monitoring
- Push button de-fog for easy sample location
- Hot gas bypass keeps warm nitrogen gas from impacting samples during a fill cycle
- User comfort features and convenient, built-in workspace
- Lockable lid for sample protection
- Designed for global use with 100-240V and 50/60 Hz power supplies. Local power cords and plugs sets available.



Microprocessor-based controller

Maximum Capacity
Designed to maximize sample capacity with minimum footprint, CryoExtra accepts both vertical and horizontal racks. Thermo Scientific cryogenic racking solutions are designed for the vessel's storage configuration, further maximizing capacity. Our 93,000 sample capacity model has the same footprint as our 80,600 sample capacity model, saving valuable floor space.

Uniform Temperatures
Minimal top to bottom temperature variation due to vacuum insulated stainless steel vessel.

Stable Lid Open Temperature
Innovative lid and neck design ensures stable temperature even during lid openings, conserving liquid nitrogen and maintaining temperature.

Advanced Temperature Monitoring Controller
Microprocessor controller monitors temperature using thermocouples accurate to +/- 1°C. Other features: user-adjustable alarm setpoint with full alarm mute options; built-in remote alarm contacts and easy to read level indicator.

Automated Fill and Level Monitoring
Four thermistors monitor both the fill and control LN_2 levels to ensure proper levels. Self diagnostics ensure reliable sensor functioning. Monitor features: current temperature display, high temperature alarm, LN_2 level and alarms, sensor fail alarm and filling status.

Hot Gas Bypass
Keeps samples safe from warm nitrogen gas during a fill cycle, improving sample security.

Convenient Work Space
A stainless platform near the vessel opening provides a flat surface for ergonomic rack placement and speeding sample recovery. All units feature integral, folding steps and interior trap door for sub-carousel access.


Interior trap door

Thermo Scientific CryoExtra

› Selection Guide

	CryoExtra 20	CryoExtra 40	CryoExtra 80	CryoExtra 94
LN_2 capacity (capacity under turntable)	463 liters (55 liters)	797 liters (133 liters)	1,745 liters (318 liters)	1,770 liters (296 liters)
Maximum System Capacity				
Vial capacity (1.2–2 mL)	19,500	40,600	80,600	93,000
Blood bag capacity (frames) 50 mL, Fenwal 4R9951	1,056 (132)	1,876 (268)	3,381 (483)	3,864 (483)
Blood bag capacity (frames) 250 mL, Fenwal 4R9953	500 (100)	1,020 (204)	1,910 (382)	1,910 (382)
Blood bag capacity (frames) 500 mL, Fenwal 4R9955	410 (82)	791 (158)	1,520 (304)	1,520 (304)
Blood bag capacity (frames) 500 mL, Gambro DF-200	340 (68)	552 (138)	1,060 (265)	1,325 (265)
Blood bag capacity (frames) 700 mL, Gambro DF-700	220 (44)	320 (80)	656 (164)	820 (164)
Rack Configuration Requirements for Maximum Capacity (Combination of Square and Mini Racks)				
Square 2 in. boxes	Holds 100 2 mL vials	Holds 100 2 mL vials	Holds 100 2 mL vials	Holds 100 2 mL vials
Racks for 100 cell boxes	12 (1950683)	26 (1950866)	60 (1950696)	60 (1950683)
Racks for 25 cell boxes	4 (1950686)	12 (1950871)	8 (1950685)	8 (1950686)
Stages per rack	15	14	13	15