



Thermo Scientific Harris® Freezers

> *Total sample protection, complete peace of mind*

Protecting your precious samples

Researchers worldwide protect more than two billion samples inside Thermo Scientific cold storage equipment. With proven systems ranging from +4°C refrigerators to -196°C cryogenic freezers, racking systems and consumables, you're free to concentrate on your work without worrying about your valuable samples. Our Harris ultra-low temperature freezer series offers heavy-duty cabinets, rugged compressors, and easy-to-use control systems—features that enable unsurpassed longevity in the lab. Peace-of-mind: That's what counts when selecting a freezer. And that's what our Harris freezers deliver.



**Choose from our upright and chest models:
-86°C to -40°C temperatures**



Thermo Scientific Harris Custom Deluxe DLT Series

> *Fully featured for increased sample protection*

Our DLT Series offers a microprocessor-based control system and the most comprehensive controls in our Harris series of freezers. Available in upright and chest configurations for sample storage down to -86°C.



Thermo Scientific Harris Custom SLT Series

> *Maximum temperature range options*

Our Custom SLT Series offers most of the cooling and controls of the Custom Deluxe DLT line, but without some features like the DLT's ambient alert and clean-filter indicator. In exchange, the SLT Series offers a wider choice of temperatures ranges.



Thermo Scientific Harris Essential ELT Series

> *Proven reliability and simplified operation*

Take the wide choice of models and reliable freezer performance of our SLT Series, but simplify the control system, and you have our Essential ELT Series. Featuring the same rugged cabinet design as our Custom SLT Series, the ELT line offers a great value in a freezer.

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TYPICAL ULTRA-LOW TEMPERATURE FREEZER APPLICATIONS

Blood Processing – Storage

- > Plasma, serology material, serum, whole blood

Clinical Diagnostics

- > Samples and specimens for testing

Forensics

- > Post-mortem necropsy samples

General Biological Research

- > Specimens, dissected tissues and microorganisms
- > Plant molecular samples
- > Research materials
- > Deep sea biological samples

Industrial

- > Plastic samples for low-temperature impact testing
- > Epoxy materials
- > Polymeric products
- > QC studies
- > Production materials

Medical

- > Allograft tissues

Molecular Biological and Biomedical Research – Freezing

- > Bacterial cultures
- > Animal tissues and cells
- > Reagents
- > Oligos

Molecular Biological and Biomedical Research – Storage

- > Bacterial/other clones
- > cDNA libraries, RNA, etc.
- > Enzymes & proteins
- > Genetic samples, DNA, RNA, competent cells
- > Microbiological cultures
- > Protein crystallography samples and reagents
- > Sera and microbial agents
- > Urine/blood at -70°C
- > Biological samples and test reagents at -70°C
- > Frozen cells and cell lysates
- > Materials for teaching labs
- > Plasma samples
- > Human and plant tissue

Pharmaceutical Manufacturing

- > GMP material storage



Thermo Scientific Harris Cryostar® Cryogenic Series -140 and -150°C

- > Cryogenic storage, minus the vapor

A unique refrigeration system enables our Harris Cryostar Storage Freezers to achieve cryogenic temperatures without the cost, risk and handling difficulties of liquid nitrogen. Temperatures are held to within 0.5°C regardless of elevation – offering far greater temperature uniformity than LN₂ systems, which may vary more than 100°C from top to bottom inside the cabinet.

	DLT	SLT	ELT	Cryostar	Benefit
Refrigeration System					
New refrigeration system using hermetic compressors	Std.	Std.	Std.	Orbital System	<ul style="list-style-type: none"> • 20% greater heat removal capacity; provides quick temperature recovery after door openings to ensure protection of critical samples • 15% lower power consumption allowing for lower cost of ownership and environmentally-friendly • 15% lower heat rejection into surrounding environment • 40% reduced noise levels for quieter comfortable lab surroundings
1 HP Industrial grade compressors	Std.	Std.	Std.		Provides refrigeration power
CFC-free refrigerants	Std.	Std.	Std.	Std.	Delivers environmentally-friendly performance
DuPont® Suva™ low-stage refrigerants	Std.	Std.	Std.		Specially formulated for ultra-low temperature applications
Downfeed evaporator	Std.	Std.	Std.	Std.	Smoother refrigerant flow
Washable condensed filter	Std.	Std.	Std.	Std.	Maintains peak condenser efficiency
Control Technology					
Microprocessor control	Std.	Std.	*Std.	Std.	A programmable interface that provides precise temperature settings and flexibility for alarm set points
Setpoint security	Std.			Std.	Locks in alarm and operating setpoints
Independent temperature setpoints	Std.	Std.	*Std.	Std.	
Independent alarm setpoints	Std.	Std.	*Std.	Std.	Allows for setting high and low temperature alarm setpoints
Time delay	Std.	Std.	*Std.	Std.	Programmable feature delays restart of freezer after building power failure allowing for power to be stabilized and a uniform re-start; reduces stress on compressor and electrical components.
On-board diagnostics	Std.	Std.	*Std.	Std.	The system will report error codes through the display, pointing the researcher or service technician to probable cause; results in faster corrective action and shorter down time.
Power Management System					
Automatic voltage buck/boost system	Std.	Std.	*Std.	Std.	Buck will reduce incoming line voltage in the event the voltage is too high. Boost will provide additional voltage to incoming line voltage in the event voltage is too low; this feature will add to the longevity of the compressors and electronics by stabilizing the voltage to the unit.
Digital power monitoring	Std.	Std.		Std.	
Low-voltage protection	Std.	Std.	Std.	Std.	Minimizes voltage spikes; protects sensitive electronics
Alarm System					
Silent Witness	Std.	Std.		Std.	Identifies temperature deviations
Audible/Visual warning	Std.	Std.	Std.	Std.	
Battery backup	Std.	Std.	Std.	Std.	
Battery capacity indicator touchpad alarm test	Std.	Std.		Std.	Displays battery voltage
RS-232 data port	Std.	Optional		Std.	For data export to PC
Remote alarm contacts	Std.	Std.	Std.	Std.	For connecting to remote monitoring systems
4-20mA temperature output device	Std.	Optional			For connecting to remote monitoring systems
Monitoring System					
Extreme ambient alert	Std.			Std.	Alerts if room temperature is too warm
Voltage boost indicator	Std.	Std.		Std.	Displays incoming line voltage
Clean filter indicator	Std.	Std.		Std.	Advises when to remove and clean filter
Cabinet Construction					
Foamed-in-place polyurethane insulation	Std.	Std.	Std.	Std.	Higher "R" insulating value
1" (25.4mm) diameter access ports	Std.	Std.	Std.	Std.	Easy access through cabinet wall
Enhanced acoustic insulation	Std.	Std.	Std.	Std.	Reduces compressor noise levels
Robust tandem casters	Std.	Std.	Std.	Std.	Side by side casters designed for durability and high impact resistance
Door-mounted Pressure Equalization Port (PEP)	Std.	Std.	*Std.	Std.	The door mounted PEP does not require maintenance (ice removal) allowing the researcher to focus on his/her samples .
Recessed power switch	Std.	Std.	*Std.	Std.	Power switched is recessed into the housing to keep the unit from being inadvertently switched off
Reinforced shelves	Std.	Std.	*Std.		New re-inforced shelves designed for excessive loads and impacts
Super-Insulation models 2-5/8" (67mm) thick walls	Not Available	Available	Available		Increased storage capacity in a smaller cabinet footprint

Door-Mounted Pressure Equalization Port (PEP): maintenance-free PEP allows for quick re-entries after door openings and eliminates the need for ice removal
(PEP is hidden from view)

Stainless Steel Interior Shelves: new reinforced shelves, developed for excessive loads and impacts

Strong Outer Door: minimum 3.5" (89mm) high strength foamed-in-place urethane insulation

Access Port: 1" diameter for easy access through wall

Outer Door Gasket: secure door seal with five points of sealing contact

Robust Cabinet Design: constructed of high-strength steel with a corrosion-resistant coating

Secure Inner Doors: high-impact ABS plastic with recessed handle

Cabinet Insulation: Minimum 5" (127mm) CFC-Free, foamed-in-place urethane for thermal protection and structural strength

Remote Alarm Contacts: physical connection to external alarm/monitoring system

Washable Filter: protection from dust build-up on condenser

Recorder: optional 7-day, 6" (152 mm) circular chart

Power Management System: low voltage surge protection, voltage buck/boost capabilities

Heavy Duty Casters: new 2" locking, tandem wheel design; easy, smooth mobility



Inventory Racks: optional stainless steel with fiberboard boxes and dividers for complete sample protection



Easy-to-Use Microprocessor Controls: programmable temperature/alarm set points and on-board diagnostics



Cryolatch™: integrated door handle and latch for one-hand operation; built-in key lock and padlock compatible



Thermo Scientific Harris Custom Deluxe DLT Series

> *Our Harris Custom Deluxe freezers are designed to meet elevated standards of performance and security with excellent temperature uniformity, fast recovery after door openings, and increased cooling capacity.*

Alarm System Highlights

- Extreme ambient alert warns if room temperature is too warm due to seasonal air conditioning or other factors
- Silent witness alert archives temperature deviation beyond pre-set parameters

Control System Highlights

- CryoLogic® microprocessor control system features touchpad data entry and digital display of all functions
- All setpoints adjustable in 1°C increments

Construction Highlights

- Cryolatch door latch in upright models provides one-handed operation for easier access to inventory
- Adjustable inner shelves on uprights create interior compartments for optimal sample storage
- Insulated sub-lids on chest models minimize exposure during lid openings

DLT TEMPERATURE RANGE

-86°C UPRIGHT CAPACITY	RANGE
13.4 cu. ft. (379 L)	-50°C to -86°C
17.2 cu. ft. (487 L)	-50°C to -86°C
20.2 cu. ft. (572 L)	-50°C to -86°C
24.4 cu. ft. (691 L)	-50°C to -86°C

-86°C CHEST CAPACITY	RANGE
All capacities	-50°C to -86°C

DLT -86°C Upright Freezers

Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
DLT-13V-85-A	13.4 (379)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 19.5 x 23.5 (1283 x 500 x 600)	77.5 x 31.3 x 37.1 (1970 x 796 x 942)	655 (297)
DLT-13V-85-D		208-230V/60Hz 1Ø	12/15 (P4)			
DLT-13V-85-V		230V/50Hz 1Ø	12/16 (P7)			
DLT-17V-85-A	17.2 (487)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 23.5 x 25 (1283 x 597 x 635)	77.8 x 36.7 x 35.5 (1975 x 931 x 901)	720 (326)
DLT-17V-85-D		208-230V/60Hz 1Ø	12/15 (P4)			
DLT-17V-85-V		230V/50Hz 1Ø	12/16 (P7)			
DLT-21V-85-A	20.2 (572)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 28.5 x 24.3 (1283 x 724 x 616)	77.8 x 41.7 x 36.2 (1975 x 1058 x 920)	770 (349)
DLT-21V-85-D		208-230V/60Hz 1Ø	12/15 (P4)			
DLT-21V-85-V		230V/50Hz 1Ø	12/16 (P7)			
DLT-25V-85-A	24.4 (691)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 34.5 x 24.3 (1283 x 876 x 616)	77.8 x 47.7 x 36.2 (1975 x 1210 x 920)	830 (376)
DLT-25V-85-D		208-230V/60Hz 1Ø	12/15 (P4)			
DLT-25V-85-V		230V/50Hz 1Ø	12/16 (P7)			

DLT -86°C Chest Freezers

Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
DLT-3LS-90-A	3.1 (88)	115V/60Hz 1Ø	16/20 (P2)	17.0 x 17.0 x 19.0 (430 x 430 x 480)	44.5 x 29.9 x 30.2 (1156 x 760 x 766)	415 (188)
DLT-3LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
DLT-3LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
DLT-7LS-90-A	6.8 (193)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 23.5 (670 x 480 x 600)	41.0 x 31.8 x 48.5 (1040 x 808 x 1230)	525 (238)
DLT-7LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
DLT-7LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
DLT-10LS-90-A	10.3 (292)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 32.3 (670 x 480 x 900)	41.0 x 31.8 x 60.3 (1040 x 808 x 1530)	680 (308)
DLT-10LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
DLT-10LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
DLT-14LS-90-A	13.7 (388)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 47.0 (670 x 480 x 1190)	41.0 x 31.8 x 72 (1040 x 808 x 1830)	650 (295)
DLT-14LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
DLT-14LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
DLT-17LS-90-A	17.1 (484)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 58.8 (670 x 480 x 1490)	41.0 x 31.8 x 83.8 (1040 x 808 x 2130)	770 (350)
DLT-17LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
DLT-17LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
DLT-20LS-90-A	20.5 (580)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 70.5 (670 x 480 x 1790)	41.0 x 31.8 x 95.5 (1040 x 808 x 2430)	940 (427)
DLT-20LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
DLT-20LS-90-V		230V/50Hz 1Ø	12/16 (P7)			



Thermo Scientific Harris Custom SLT Series

> *Our Harris Custom freezers offer comprehensive monitoring and alarm systems, plus advanced refrigeration to protect inventory throughout a variety of clinical and industrial applications.*

Alarm System Highlights

- Adjustable safety alarm with automatic, continuous-charge battery backup provides full alarm function in case of power failure
- Exterior alarm contacts connect to remote monitoring system

Control System Highlights

- All set points adjustable in 1°C increments
- Microprocessor control system features touchpad data entry and digital display functions

Construction Highlights

- Cryolatch door latch in upright models provides one-handed operation for easier access to inventory
- Adjustable inner shelves on uprights create interior compartments for optimal sample storage
- Insulated sub-lids on chest models minimize exposure during lid openings



SLT TEMPERATURE RANGE

-40°C UPRIGHT & CHEST CAPACITY	RANGE
All capacities	-10°C to -40°C

-86°C UPRIGHT CAPACITY	RANGE
13.4 cu. ft. (379 L)	-50°C to -86°C
17.2 cu. ft. (487 L)	-50°C to -86°C
20.2 cu. ft. (572 L)	-50°C to -86°C
24.4 cu. ft. (691 L)	-50°C to -86°C

-86°C CHEST CAPACITY	RANGE
All capacities	-50°C to -86°C

SLT -86°C Upright Super Insulated Freezers

Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
SLT-25V-85SI-A	24.4 (691)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 34.3 x 24.3 (1283 x 876 x 616)	77.5 x 41.9 x 33.6 (1972 x 1118 x 944)	790 (359)
SLT-25V-85SI-D		208-230V/60Hz 1Ø	12/15 (P4)			

SLT -86°C Upright Freezers

Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
SLT-13V-85-A	13.4 (379)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 19.5 x 23.5 (1283 x 500 x 600)	77.5 x 31.3 x 37.1 (1970 x 796 x 942)	655 (297)
SLT-13V-85-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-13V-85-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-17V-85-A	17.2 (487)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 23.5 x 25 (1283 x 600 x 635)	77.8 x 36.7 x 35.5 (1975 x 931 x 901)	720 (326)
SLT-17V-85-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-17V-85-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-21V-85-A	20.2 (572)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 28.5 x 24.3 (1283 x 724 x 616)	77.8 x 41.7 x 36.2 (1975 x 1058 x 920)	770 (349)
SLT-21V-85-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-21V-85-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-25V-85-A	24.4 (691)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 34.5 x 24.3 (1283 x 876 x 616)	77.8 x 47.7 x 36.2 (1975 x 1210 x 920)	830 (376)
SLT-25V-85-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-25V-85-V		230V/50Hz 1Ø	12/16 (P7)			

SLT -86°C Chest Freezers

Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
SLT-3LS-90-A	3.1 (88)	115V/60Hz 1Ø	16/20 (P2)	17.0 x 17.0 x 19.0 (430 x 430 x 480)	44.5 x 29.9 x 30.2 (1156 x 760 x 766)	415 (188)
SLT-3LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-3LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-7LS-90-A	6.8 (193)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 23.5 (670 x 480 x 600)	41.0 x 31.8 x 48.5 (1040 x 808 x 1230)	525 (238)
SLT-7LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-7LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-10LS-90-A	10.3 (292)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 32.3 (670 x 480 x 900)	41.0 x 31.8 x 60.3 (1040 x 808 x 1530)	680 (308)
SLT-10LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-10LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-14LS-90-A	13.7 (388)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 47.0 (670 x 480 x 1190)	41.0 x 31.8 x 72 (1040 x 808 x 1830)	650 (295)
SLT-14LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-14LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-17LS-90-A	17.1 (484)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 58.8 (670 x 480 x 1490)	41.0 x 31.8 x 83.8 (1040 x 808 x 2130)	770 (350)
SLT-17LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-17LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-20LS-90-A	20.5 (580)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 70.5 (670 x 480 x 1790)	41.0 x 31.8 x 95.5 (1040 x 808 x 2430)	940 (427)
SLT-20LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-20LS-90-V		230V/50Hz 1Ø	12/16 (P7)			

SLT -40°C Upright Freezers						
Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
SLT-13V-40-A	13.4 (379)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 19.5 x 23.5 (1283 x 500 x 600)	77.5 x 31.3 x 37.1 (1970 x 796 x 942)	655 (297)
SLT-13V-40-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-13V-40-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-17V-40-A	17.2 (487)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 23.5 x 25 (1283 x 597 x 635)	77.8 x 36.7 x 35.5 (1975 x 931 x 901)	720 (326)
SLT-17V-40-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-17V-40-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-21V-40-A	20.2 (572)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 28.5 x 24.3 (1283 x 724 x 616)	77.8 x 41.7 x 36.2 (1975 x 1058 x 920)	770 (349)
SLT-21V-40-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-21V-40-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-25V-40-A	24.4 (691)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 34.5 x 24.3 (1283 x 876 x 616)	77.8 x 47.7 x 36.2 (1975 x 1210 x 920)	830 (376)
SLT-25V-40-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-25V-40-V		230V/50Hz 1Ø	12/16 (P7)			

SLT -40°C Chest Freezers						
Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
SLT-3LS-50-A	3.1 (88)	115V/60Hz 1Ø	16/20 (P2)	17.0 x 17.0 x 19.0 (430 x 430 x 480)	44.5 x 29.9 x 30.2 (1156 x 760 x 766)	415 (188)
SLT-3LS-50-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-3LS-50-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-7LS-50-A	6.8 (193)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 23.5 (670 x 480 x 600)	41.0 x 31.8 x 48.5 (1040 x 808 x 1230)	525 (238)
SLT-7LS-50-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-7LS-50-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-10LS-50-A	10.3 (292)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 32.3 (670 x 480 x 900)	41.0 x 31.8 x 60.3 (1040 x 808 x 1530)	680 (308)
SLT-10LS-50-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-10LS-50-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-14LS-50-A	13.7 (388)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 47.0 (670 x 480 x 1190)	41.0 x 31.8 x 72 (1040 x 808 x 1830)	650 (295)
SLT-14LS-50-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-14LS-50-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-17LS-50-A	17.1 (484)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 58.8 (670 x 480 x 1490)	41.0 x 31.8 x 83.8 (1040 x 808 x 2130)	770 (350)
SLT-17LS-50-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-17LS-50-V		230V/50Hz 1Ø	12/16 (P7)			
SLT-20LS-50-A	20.5 (580)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 70.5 (670 x 480 x 1790)	41.0 x 31.8 x 95.5 (1040 x 808 x 2430)	940 (427)
SLT-20LS-50-D		208-230V/60Hz 1Ø	12/15 (P4)			
SLT-20LS-50-V		230V/50Hz 1Ø	12/16 (P7)			



Thermo Scientific Harris Essential ELT Series

> *A cost-effective alternative for a variety of storage uses, our Harris Essential ELT Series incorporates a simplified control system with heavy-duty cabinet construction for basic, dependable operation.*

Alarm System Highlights

- Audible warm alarm with auto-charge battery backup
- Key switch for on/off operation
- Large, easy-to-read digital display
- Preset over-temperature alarm limit parameter

Control System Highlights

- Dependable, electronic controller with adjustable setpoints
- Large, easy-to-read digital temperature display
- Built-in voltage boost maintains ample power at all times, protects compressor and other components during low voltage conditions

Construction Highlights

- Cryolatch door latch in upright models provides one-handed operation for easier access to inventory
- Adjustable inner shelves on uprights create interior compartments for optimal sample storage
- Insulated sub-lids on chest models minimize exposure during lid openings



ELT TEMPERATURE RANGE

-40°C UPRIGHT & CHEST CAPACITY	RANGE
All capacities	-10°C to -40°C

-86°C UPRIGHT CAPACITY	RANGE
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17.2 cu. ft. (487 L)	-50°C to -86°C
20.2 cu. ft. (572 L)	-50°C to -86°C
24.4 cu. ft. (691 L)	-50°C to -86°C

-86°C CHEST CAPACITY	RANGE
All capacities	-50°C to -86°C

ELT -86°C Upright Super Insulated Freezers

Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
ELT-11V-85SI-A	11 (312)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 18.5 x 20.0 (1283 x 470 x 508)	75.5 x 26.5 x 37 (1918 x 673 x 940)	605 (274)
ELT-11V-85SI-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-11V-85SI-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-25V-85SI-A	24.4 (691)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 34.5 x 24.3 (1283 x 876 x 616)	77.7 x 44 x 37.2 (1972 x 1118 x 944)	790 (359)
ELT-25V-85SI-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-25V-85SI-V		230V/50Hz 1Ø	12/16 (P7)			

ELT -86°C Upright Freezers

Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
ELT-13V-85-A	13.4 (379)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 19.5 x 23.5 (1283 x 500 x 600)	77.5 x 31.3 x 37.1 (1970 x 796 x 942)	655 (297)
ELT-13V-85-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-13V-85-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-17V-85-A	17.2 (487)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 23.5 x 25 (1283 x 597 x 635)	77.8 x 36.7 x 35.5 (1975 x 931 x 901)	720 (326)
ELT-17V-85-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-17V-85-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-21V-85-A	20.2 (572)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 28.5 x 24.3 (1283 x 724 x 616)	77.8 x 41.7 x 36.2 (1975 x 1058 x 920)	770 (349)
ELT-21V-85-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-21V-85-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-25V-85-A	24.4 (691)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 34.5 x 24.3 (1283 x 876 x 616)	77.8 x 47.7 x 36.2 (1975 x 1210 x 920)	830 (376)
ELT-25V-85-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-25V-85-V		230V/50Hz 1Ø	12/16 (P7)			

ELT -86°C Chest Freezers

Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
ELT-3LS-90-A	3.1 (88)	115V/60Hz 1Ø	16/20 (P2)	17.0 x 17.0 x 19.0 (430 x 430 x 480)	44.5 x 29.9 x 30.2 (1156 x 760 x 766)	415 (188)
ELT-3LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-3LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-7LS-90-A	6.8 (193)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 23.5 (670 x 480 x 600)	41.0 x 31.8 x 48.5 (1040 x 808 x 1230)	525 (238)
ELT-7LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-7LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-10LS-90-A	10.3 (292)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 32.3 (670 x 480 x 900)	41.0 x 31.8 x 60.3 (1040 x 808 x 1530)	680 (308)
ELT-10LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-10LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-14LS-90-A	13.7 (388)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 47.0 (670 x 480 x 1190)	41.0 x 31.8 x 72.0 (1040 x 808 x 1830)	650 (295)
ELT-14LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-14LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-17LS-90-A	17.1 (484)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 58.8 (670 x 480 x 1490)	41.0 x 31.8 x 83.8 (1040 x 808 x 2130)	770 (350)
ELT-17LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-17LS-90-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-20LS-90-A	20.5 (580)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 70.5 (670 x 480 x 1790)	41.0 x 31.8 x 95.5 (1040 x 808 x 2430)	940 (427)
ELT-20LS-90-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-20LS-90-V		230V/50Hz 1Ø	12/16 (P7)			

ELT -40°C Upright Freezers

Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
ELT-13V-40-A	13.4 (379)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 19.5 x 23.5 (1283 x 500 x 600)	77.5 x 31.3 x 37.1 (1970 x 796 x 942)	655 (297)
ELT-13V-40-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-13V-40-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-17V-40-A	17.2 (487)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 23.5 x 25 (1283 x 597 x 635)	77.8 x 36.7 x 35.5 (1975 x 931 x 901)	720 (326)
ELT-17V-40-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-17V-40-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-21V-40-A	20.2 (572)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 28.5 x 24.3 (1283 x 724 x 616)	77.8 x 41.7 x 36.2 (1975 x 1058 x 920)	770 (349)
ELT-21V-40-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-21V-40-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-25V-40-A	24.4 (691)	115V/60Hz 1Ø	16/20 (P2)	50.5 x 34.5 x 24.3 (1283 x 876 x 616)	77.8 x 47.7 x 36.2 (1975 x 1210 x 920)	830 (376)
ELT-25V-40-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-25V-40-V		230V/50Hz 1Ø	12/16 (P7)			

ELT -40°C Chest Freezers

Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
ELT-3LS-50-A	3.1 (88)	115V/60Hz 1Ø	16/20 (P2)	17.0 x 17.0 x 19.0 (430 x 430 x 480)	44.5 x 29.9 x 30.2 (1156 x 760 x 766)	415 (188)
ELT-3LS-50-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-3LS-50-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-7LS-50-A	6.8 (193)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 23.5 (670 x 480 x 600)	41.0 x 31.8 x 48.5 (1040 x 808 x 1230)	525 (238)
ELT-7LS-50-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-7LS-50-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-10LS-50-A	10.3 (292)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 32.3 (670 x 480 x 900)	41.0 x 31.8 x 60.3 (1040 x 808 x 1530)	680 (308)
ELT-10LS-50-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-10LS-50-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-14LS-50-A	13.7 (388)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 47.0 (670 x 480 x 1190)	41.0 x 31.8 x 72.0 (1040 x 808 x 1830)	650 (295)
ELT-14LS-50-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-14LS-50-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-17LS-50-A	17.1 (484)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 58.8 (670 x 480 x 1490)	41.0 x 31.8 x 83.8 (1040 x 808 x 2130)	770 (350)
ELT-17LS-50-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-17LS-50-V		230V/50Hz 1Ø	12/16 (P7)			
ELT-20LS-50-A	20.5 (580)	115V/60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 70.5 (670 x 480 x 1790)	41.0 x 31.8 x 95.5 (1040 x 808 x 2430)	940 (427)
ELT-20LS-50-D		208-230V/60Hz 1Ø	12/15 (P4)			
ELT-20LS-50-V		230V/50Hz 1Ø	12/16 (P7)			

Thermo Scientific Harris Cryostar® Cryogenic Series



> Using a unique single compressor refrigeration system, our Harris Cryostar storage freezers maintain uniform -140°C or -150°C temperatures without the expense or inconvenience of liquid nitrogen.

Alarm System Highlights

- Adjustable safety alarm with automatic, continuous-charge battery backup provides full alarm function in case of power failure
- Exterior alarm contacts connect to remote monitoring system

Control System Highlights

- All setpoints adjustable in 1°C increments
- CryoLogic microprocessor control system features touch-pad data entry and digital display of all functions

Construction Highlights

- Insulated sub-lids on chest models minimize exposure during lid openings
- Minimum 5" (128mm) high density, foamed-in-place urethane insulation is closed-cell and CFC-free

Uniformity Comparison

Our Harris Cryostar freezers maintain a uniform -140°C or -150°C temperature at all levels of the cabinet. All samples are maintained below the critical -130°C glass transition temperature of water. By comparison, storage temperatures in liquid nitrogen vapor exhibit a temperature gradient related to elevation above the liquid source; cell viability may be effected by storage location.

Typical Applications

- Fungi (Hyphae)
- Hybridomas
- Yeast
- Infected Cells
- Protozoa
- Plasmids
- Algae
- Phage Libraries
- Plant Cells
- Stem Cells

Cryostar® Series -140°C Chest Freezers

Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
QCX-10140-D	10.3 (292)	208-230V/60Hz 1Ø	20/30 (PG)	35.5 x 19.0 x 26.5 (890 x 480 x 670)	69.0 x 29.0 x 42.75 (1760 x 740 x 1090)	1065 (483)
QCX-10140-E		208-230V/60Hz 3Ø	16/20 HW*			

Cryostar® Series -150°C Chest Freezers

Model No.	Capacity Cu Ft (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions HxWxD inches (mm)	Exterior Dimensions HxWxD inches (mm)	Shipping Weight lbs (kg)
QCX-7150-D	6.9 (195)	208-230V/60Hz 1Ø	20/30 (PG)	23.5 x 19.0 x 26.5 (590 x 480 x 670)	57.25 x 29.0 x 42.75 (1550 x 740 x 1090)	825 (374)
QCX-7150-E		208-230V/60Hz 3Ø	16/20 HW*			

* No plug provided; requires hard wire connection by customer.

Flexibility with you in mind

Whether you want to configure your own inventory management system or purchase a full-load kit, our Harris freezers provide a simple, cost-effective way to manage your inventory. You can select from:

- > *Standard box storage racks for upright and chest freezers*
- > *Microplate/microtube storage racks for upright and chest freezers*
- > *Boxes, dividers and baskets*



The arrangement you design can enhance the efficiency of your facility by saving space in your freezer and improving inventory management. The following charts list the most common racks and are arranged according to cabinet size and storage needs. Full-load systems include stainless steel inventory racks, fiberboard boxes 5.25" (133.35 mm) square (130 mm), either 2" or 3" high (50 or 80 mm), and a full complement of fiberboard box grid dividers with 100 cells.

Rack Systems for -40°C and -86°C Upright Freezer >> Vials

Description	Freezer Volume	Quantity of 2" Boxes	Quantity of 3" Boxes	Racks/ Shelf	Total Racks/ Freezer
Adjustable Side Access Rack					
6112-1 9.39"H x 16.75"F-B x 5.34"W (240mm x 425mm x 135mm)	13 cu. ft./368 L	12	9	4	20
6113-1 9.39"H x 22.19"F-B x 5.34"W (240mm x 560mm x 135mm)	17 cu. ft./481 L 21 cu. ft./594 L 25 cu. ft./707 L	16 16 16	12 12 12	4 5 6	20 25 30
Sliding Drawer Rack					
5992 5.4"W x 21.25"F-B X 7"H (140mm X 540mm x 178mm)	17 cu. ft./481 L 21 cu. ft./594 L 25 cu. ft./707 L	12 12 12	– – –	4 5 6	20 25 30
5994 5.4"W x 16.1"F-B X 7"H (140mm X 540mm x 178mm)	13 cu. ft./368 L	12	–	4	20
5996 5.4"W x 21.25"F-B X 9.4"H (140mm X 540mm x 240mm)	17 cu. ft./481 L 21 cu. ft./594 L 25 cu. ft./707 L	16 16 16	– – –	4 5 6	20 25 30
5991 5.4"W x 21.25"F-B X 7"H (140mm X 540mm x 178mm)	17 cu. ft./481 L 21 cu. ft./594 L 25 cu. ft./707 L	– – –	8 8 8	4 5 6	20 25 30
Fixed side access Rack for 2" Boxes					
7138 8.87"H x 16.5"F-B x 5.5"W (225mm x 420mm x 140mm)	13 cu. ft./368 L	12	–	4	20
7145 8.87"H x 22"F-B x 5.5"W (225mm x 560mm x 140mm)	17 cu. ft./481 L 21 cu. ft./594 L 25 cu. ft./707 L	16 16 16	– – –	4 5 6	20 25 30

Rack Systems for -40°C and -86°C Upright Freezer >> Microplates

Cat. No.	Description	Freezer Volume	With Lids	Without Lids	Racks/ Shelf
Microplates					
6734	8.75"H x 16.5"F-B x 5.5"W (220mm x 420mm x 140mm)	13 cu. ft./368 L	44	–	4
7139	9.18"H x 18.5"F-B x 5.5"W (230mm x 470mm x 140mm)	13 cu. ft./368 L	70	85	4
7146	9.18"H x 22"F-B x 5.5"W (230mm x 560mm x 140mm)	17 cu. ft./481 L 21 cu. ft./594 L 25 cu. ft./707 L	84 84 84	102 102 102	4 5 6
Microplates in Individual Compartments					
6733	8.75"H x 22.19"F-B x 5.5"W (220mm x 560mm x 140mm)	17 cu. ft./481 L 21 cu. ft./594 L 25 cu. ft./707 L	66 66 66	– – –	4 5 6
Microplates including Locking Rods					
7147	9.37"H x 22"F-B x 5.5"W (240mm x 560mm x 140mm)	17 cu. ft./481 L 21 cu. ft./594 L 25 cu. ft./707 L	84 84 84	96 96 96	4 5 6

Rack Systems for -40°C and -86°C Upright Freezer >> Microplates

Cat. No.	Description	Freezer Volume	Microplates with Lids	Without Lids	Microtube Boxes	Racks/ Shelf
Deep-well Plates with Individual Compartments						
7141	9.18"H x 18.5"F-B x 5.5"W (230mm x 470mm x 140mm)	13 cu. ft./368 L	25	–	–	4
Deep-well Plates with Individual Compartments with Locking Rods						
7149	9.37"H x 22"F-B x 5.5"W (240mm x 560mm x 140mm)	17 cu. ft./481 L	30	–	–	4
		21 cu. ft./594 L	30	–	–	5
		25 cu. ft./707 L	30	–	–	6
Microtube Box and Microplate Rack with Lids with Locking Rods						
7147	9.06"H x 18.5"F-B x 5.5"W (230mm x 470mm x 140mm)	13 cu. ft./368 L	60	–	20	4
7152	9.06"H x 18.5"F-B x 5.5"W (230mm x 470mm x 140mm)	17 cu. ft./481 L	72	–	24	4
		21 cu. ft./594 L	72	–	24	5
		25 cu. ft./707 L	72	–	24	6
Microtube Box and Microplate Rack with Lids						
7150	8.87"H x 22"F-B x 5.5"W (225mm X 560mm X 140mm)	17 cu. ft./481 L	72	–	24	4
		21 cu. ft./594 L	72	–	24	5
		25 cu. ft./707 L	72	–	24	6

Upright Freezers > Full-Load Inventory Systems

Cat. No.	Height	Description	Total Number of Racks	Total Number Boxes Per Rack	Total Vial Capacity
6880	2 in. (50mm)	Complete Kit for 13.4 cu. ft.-includes racks, boxes and (100 cell) dividers	20	240	24000
6882	2 in. (50mm)	Complete Kit for 17.2 cu. ft.-includes racks, boxes and (100 cell) dividers	20	320	32000
6884	2 in. (50mm)	Complete Kit for 20.2 cu. ft.-includes racks, boxes and (100 cell) dividers	25	400	40000
6893	2 in. (50mm)	Complete Kit for 24.4 cu. ft.-includes racks, boxes and (100 cell) dividers	30	480	48000
6887	3 in. (80mm)	Complete Kit for 13.4 cu. ft.-includes racks, boxes and (100 cell) dividers	20	180	18000
6889	3 in. (80mm)	Complete Kit for 17.2 cu. ft.-includes racks, boxes and (100 cell) dividers	20	240	24000
6891	3 in. (80mm)	Complete Kit for 20.2 cu. ft.-includes racks, boxes and (100 cell) dividers	25	300	30000
6896	3 in. (80mm)	Complete Kit for 24.4 cu. ft.-includes racks, boxes and (100 cell) dividers	30	360	36000

Upright Freezers > Single Shelf of Inventory Racks

Cat. No.	Height	Description	Total Number of Racks	Total Number Boxes Per Rack	Total Vial Capacity
7452TA	2 in. (50mm)	Complete shelf of racks for 17 cu ft/481 L, with 2" boxes and 100-cell dividers	4	16	6,400
7453TA	2 in. (50mm)	Complete shelf of racks for 21 cu ft/594 L, with 2" boxes and 100-cell dividers	5	16	8,000
7454TA	2 in. (50mm)	Complete shelf of racks for 25 cu ft/707 L, with 2" boxes and 100-cell dividers	6	16	9,600

Cat. No.	Description
7265	Fixed side access rack for 15-50mL conical tubes.

Rack Systems Chest Freezer >> Vials

Cat. No.	Description	Freezer Volume	Quantity of 2" Boxes	Quantity of 3" Boxes	Total Racks/ Freezer
Full Rack with Shelf Lip					
5972	16.56"H x 5.375"F-B x 5.375"W (420mm x 140mm x 140mm)	3 cu. ft./84 L	7	–	9
5978	26.1"H x 5.375"F-B x 5.375"W (660mm x 140mm x 140mm)	7 cu. ft./198 L	11	–	12
		10 cu. ft./283 L	11	–	18
		14 cu. ft./396 L	11	–	24
		17 cu. ft./481 L	11	–	30
		20 cu. ft./566 L	11	–	36
5973	16.5"H x 5.375"F-B x 5.375"W (410mm x 140mm x 140mm)	3 cu. ft./84 L	–	5	9
6096	25.75"H x 5.375"F-B x 5.275"W (410mm x 140mm x 140mm)	7 cu. ft./198 L	–	8	12
		10 cu. ft./283 L	–	8	18
		14 cu. ft./396 L	–	8	24
		17 cu. ft./481 L	–	8	30
		20 cu. ft./566 L	–	8	36
Half Rack with Locking Rod					
6230	13.125"H x 5.562"F-B x 5.5"W (650mm x 140mm x 140mm)	7 cu. ft./198 L	6	–	24
		10 cu. ft./283 L	6	–	36
		14 cu. ft./396 L	6	–	48
		17 cu. ft./481 L	6	–	60
		20 cu. ft./566 L	6	–	72

Rack Systems Chest Freezer >> Vials (CONTINUED)

Cat. No.	Description	Freezer Volume	Quantity of 2" Boxes	Quantity of 3" Boxes	Total Racks/ Freezer
Half Rack with Locking Rod					
6231	13.125"H x 5.562"F-B x 5.5"W (330mm x 140mm x 140mm)	7 cu. ft./198 L	–	4	24
		10 cu. ft./283 L	–	4	36
		14 cu. ft./396 L	–	4	48
		17 cu. ft./481 L	–	4	60
		20 cu. ft./566 L	–	4	72
Short Full Rack with Locking Rod					
6232	8.75"H x 5.562"F-B x 5.5"W (220mm x 140mm x 140mm)	7 cu. ft./198 L	4	–	24
		10 cu. ft./283 L	4	–	36
		14 cu. ft./396 L	4	–	48
		17 cu. ft./481 L	4	–	60
		20 cu. ft./566 L	4	–	72
6233	9.75"H x 5.562"F-B x 5.5"W (320mm x 140mm x 140mm)	7 cu. ft./198 L	–	3	24
		10 cu. ft./283 L	–	3	36
		14 cu. ft./396 L	–	3	48
		17 cu. ft./481 L	–	3	60
		20 cu. ft./566 L	–	3	72

Rack Systems Chest Freezer >> Microplates

Cat. No.	Description	Freezer Volume	Quantity of 2" Boxes	Quantity of 3" Boxes	Total Racks/ Freezer
Microplate Rack					
7158	23.375"H x 5.5"F-B x 3.625"W (590mm x 140mm x 90mm)	7 cu. ft./198 L	35	42	18
		10 cu. ft./283 L	35	42	27
		14 cu. ft./396 L	35	42	36
		17 cu. ft./481 L	35	42	45
		20 cu. ft./566 L	35	42	57
Deep-well Microplate Rack					
7155	16.5"H x 5.5"F-B x 3.625"W (420mm x 140mm x 90mm)	3 cu. ft./84 L	–	9	12
7159	25.5"H x 5.5"F-B x 3.625"W (650mm x 140mm x 90mm)	7 cu. ft./198 L	–	14	18
		10 cu. ft./283 L	–	14	27
		14 cu. ft./396 L	–	14	36
		17 cu. ft./481 L	–	14	45
		20 cu. ft./566 L	–	14	57
7160	25.625"H x 5.5"F-B x 3.625"W (650mm x 140mm x 90mm)	7 cu. ft./198 L	–	14	18
		10 cu. ft./283 L	–	14	27
		14 cu. ft./396 L	–	14	36
		17 cu. ft./481 L	–	14	45
		20 cu. ft./566 L	–	14	57

Rack Systems Chest Freezer >> Microplates

Cat. No.	Description	Freezer Volume	Racks/ Freezer	With Lids	Without Lids	Microtube Box
Microtube Box and Microplate Rack						
7161	24.5"H x 5.5"F-B x 3.625"W (620mm x 140mm x 90mm)	7 cu. ft./198 L	18	33	44	11
		10 cu. ft./283 L	27	33	44	11
		14 cu. ft./396 L	36	33	44	11
		17 cu. ft./481 L	45	33	44	11
		20 cu. ft./566 L	57	33	44	11
Microtube Box and Microplate Rack with Locking Rod						
7162	24.625"H x 5.5"F-B x 3.625"W (630mm x 140mm x 90mm)	7 cu. ft./198 L	18	33	44	11
		10 cu. ft./283 L	27	33	44	11
		14 cu. ft./396 L	36	33	44	11
		17 cu. ft./481 L	45	33	44	11
		20 cu. ft./566 L	57	33	44	11

Chest Freezers > Full-Load Inventory Systems

Cat No.	Box Height	Description	Total Number of Racks	Total Number Boxes Per Rack	Total Microplate Capacity
6852	2 in. (50mm)	Complete Kit for 3.1 cu. ft.-includes racks, boxes and (100 cell) dividers	9	63	6300
6856	2 in. (50mm)	Complete Kit for 6.8 cu. ft.-includes racks, boxes and (100 cell) dividers	12	132	13200
6865	2 in. (50mm)	Complete Kit for 10.3 cu. ft.-includes racks, boxes and (100 cell) dividers	18	198	19800
6867	2 in. (50mm)	Complete Kit for 13.7 cu. ft.-includes racks, boxes and (100 cell) dividers	24	264	26400
6869	2 in. (50mm)	Complete Kit for 17.1 cu. ft.-includes racks, boxes and (100 cell) dividers	30	330	33000
6878	2 in. (50mm)	Complete Kit for 20.5 cu. ft.-includes racks, boxes and (100 cell) dividers	36	396	39600
6859	3 in. (80mm)	Complete Kit for 3.1 cu. ft.-includes racks, boxes and (100 cell) dividers	9	45	4500
6863	3 in. (80mm)	Complete Kit for 6.8 cu. ft.-includes racks, boxes and (100 cell) dividers	12	96	9600
6872	3 in. (80mm)	Complete Kit for 10.3 cu. ft.-includes racks, boxes and (100 cell) dividers	18	144	14400
6874	3 in. (80mm)	Complete Kit for 13.7 cu. ft.-includes racks, boxes and (100 cell) dividers	24	192	19200
6876	3 in. (80mm)	Complete Kit for 17.1 cu. ft.-includes racks, boxes and (100 cell) dividers	30	240	24000
6885	3 in. (80mm)	Complete Kit for 20.5 cu. ft.-includes racks, boxes and (100 cell) dividers	36	288	28800



Temperature Recorders

All 6" (150mm) circular chart, 7-day temperature recorders use pressure-sensitive chart paper; one box of 50 charts included.

- No inking is required
- Built-in, panel-mounted recorders are factory installed (specify when ordering)
- Free-standing recorders are customer installed

Temperature Recorder - 6 chart, 7-day chart drive		Freezer
6183-5	Built-in, factory installed (<i>specify when ordering</i>)	-140°C and -150°C Freezers
6183-6	Built-in, factory installed (<i>specify when ordering</i>)	-86°C and -40° C Freezers
6283-5	Built-in, field installed	-140°C and -150°C Freezers
6283-6	Built-in, field installed	-86°C and -40° C Freezers
6383-5*	Free-standing, customer installed	-140°C and -150°C Freezers
6383-6*	Free-standing, customer installed	-86°C and -40° C Freezers
6185**	Chart paper, temperature range +50°C to -115°C	-86°C and -40° C Freezers
7289**	Chart paper, temperature range 0°C to -200°C	-140°C and -150°C Freezers

* Customer must indicate voltage **Package of 50

Backup Systems

Backup Systems inject liquid CO₂ or LN₂ on demand when cabinet temperature warms to a pre-set level

- Built-in backup systems are available on HLT, DLT and SLT models only
- All ELT models require a free-standing backup system
- Liquid flow is shut off automatically when the freezer door or lid is opened
- Activation setpoints are adjustable in 1°C increments, to -75°C for CO₂ and -150°C for LN₂
- The control module digital display shows actual temperature when button is pushed
- An indicator light glows when activated
- The system operates on a continually recharged battery and includes all hardware except the supply cylinder

Backup Systems		
6594*	CO ₂ backup system (<i>built-in factory installed, specify when ordering</i>)	-86°C and -40°C Freezers Only
6595*	LN ₂ backup system (<i>built-in factory installed, specify when ordering</i>)	-86°C and -40°C Freezers -140°C and -150°C Freezers
6593**	CO ₂ backup system, free-standing (<i>customer installed; specify when ordering</i>)	-86°C and -40°C Freezers Only
6214**	LN ₂ backup system, free-standing (<i>customer installed; specify when ordering</i>)	-86°C and -40°C Freezers -140°C and -150°C Freezers

* Not available on 3.1 cu.ft. (88 liter) chest models. ** Customer must indicate voltage

6402 Surge Suppressor

Protects refrigeration system and controls against voltage surge. Freezer model number and voltage must be specified when ordering. Requires field installation by a qualified electrician or factory authorized service center.

6903 Alarm Delay Module

The alarm delay eliminates nuisance alarms due to intermittent or transitory conditions such as lightning or brief power outages. The adjustable delay requires an alarm condition to exist continuously for a pre-determined time (adjustable) before a signal is released to a central alarm/monitoring system or telephone dialer.

6224* Deluxe Electronic Remote Alarm

The Thermo Scientific Harris Deluxe electronic remote alarm can be programmed to sound an alarm in the event of a temperature increase or power failure.

- The alarm can dial up to four telephone numbers
- Advises of an alarm condition across any telephone system which accepts pulse dialing
- One system can monitor up to four individual freezers or up to three groups of freezers.

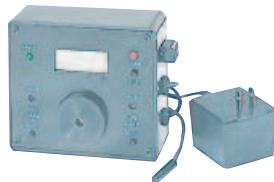
Integrated alarm is not available on the 13 cu. ft. ELT freezer; factory installation only.



To place an order call 1-866-984-3766

Digital Temperature Monitor

Simple, accurate and cost-effective, our Harris digital temperature and power monitor provides both alarm/monitoring and digital temperature display in a single, self-contained unit. Standard features include high alarm, alarm mute and chirp, audio delay timer, remote alarm contacts (SPDT), nicad battery backup, and low voltage AC power supply, 120V, AC.



Digital Temperature Monitor Specifications

Catalog No.	Digital		Microprocessor-Based		
	6898	6899	6900	6901	6902
Input Channels	1	1	2	3	4
Temperature Range	← 100°C to +25°C →				
Display and Setpoint Resolution	1°C	1°C	0.1°C	0.1°C	
Temperature Alarm	high only		high and low		
LCD Alphanumeric Display			8-character, back-lit, adjustable		
Visual Alarm			green=normal; red=deviation		
Solid-state Probe Lead Wire	8 foot Teflon®	8 foot 24 gauge	20' Teflon®, color-coded		
Relay Delay	n/a		programmable, 0-30 minutes		
Alarm/battery Test Switch	n/a		standard		
Mounting Method	Velcro®		Bracket		
Case Dimensions	5" L x 4.5" W x 2" D 130 mm x 110 mm x 50 mm		6.25" L x 3.25" W x 2" D 160 mm x 80 mm x 50 mm		

6405 RS-232 Data Port and Software

For microprocessor-based SLT freezers only, standard on DLT models. Allows computer monitoring of freezer performance.

4706 4-20 Milliamp Output

6105 Cabinet Pass-Thru Port

Each Thermo Scientific Harris ultra-low and Cryostar freezer includes two 1" diameter (25.4mm) pass-thru ports as standard equipment. Additional ports for probes, cables, leads or measuring instruments may be added. Additional ports are 1" diameter (25.4mm).

Stainless Steel Interior

An optional stainless steel interior may be substituted for the standard powder painted interior; (excludes Super Insulation models) *specify when ordering.*

Cabinet Size, cu.ft. (liters)

6121	3.1 (88) chest	6126	20.5 (581) chest
6122	6.8 (193) chest	6179	13.4 (379) upright
6123	10.3 (292) chest	6180	17.2 (487) upright
6124	13.7 (388) chest	6181	20.2 (572) upright
6125	17.1 (484) chest	6145	24.4 (691) upright

LabCooler™ Cryopreservation Modules

Modules are useful in providing nominal control over pulldown during initial freeze cycles and maintaining temperature stability of stored samples in vials during handling.

- LabCooler and LabCooler Lite preservation modules are designed to freeze mammalian and insect cells with greater control over pulldown freezing prior to storage in an ultra-low freezer

6742	LabCooler Cryopreservation Module	Holds 32 standard vials
6743	LabCooler Lite Cryopreservation Module	Holds 7 standard vials; includes a clear, interlocking top to allow viewing of contents
6745	LabCooler Lite Benchtop Cooler	Holds 7 standard vials; includes a clear, interlocking top to allow viewing of contents

Cryo Gloves

Suitable for use with ultra-cold surfaces, Cryo Gloves protect hands and arms when inserting or removing inventory.

- Layered material is specially selected for high insulation value with ample dexterity
- Mid-arm style is available in sizes medium or large

4425	Medium	4426	Large
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Achieve secure, efficient tracking of laboratory samples with Thermo Scientific 2D Barcoded storage tubes.

Unlike traditional storage tubes, a permanently bonded 2D barcode is laser-etched on the base of every tube for individual identification and traceability. Available in volumes from 0.3 ml to 12.0 ml, stringent quality control ensures flawless barcodes and all tubes are leak-tested to ensure the integrity of every sample. The microplate footprint tube racks, with a locking lid to secure samples, are stackable to provide space efficiencies for storage.

Complementary Thermo Scientific 2D barcode readers allow instant decoding of each barcode and sample entry into virtually any file or database application, permanently linking the tube contents to the unique 2D code.

For more information, please visit www.thermo.com/matrix.

Freezers supplied with line cord plugs (P) require corresponding receptacles illustrated in the Line Cord Plug Reference. Catalog selection charts list each standard model with voltage, rated amperage, recommended circuit breaker size and NEMA electrical plug information.

Line Cord Plug Reference

Models with this code	have this plug	require this receptacle	NEMA Reference	
			Plug	Receptacle
P1			5-15P	5-15R
P2			5-20P	5-20R
P3			5-30P	5-30R
P4			6-15P	6-15R
P5			6-20P	6-20R
P6			6-30P	6-30R

WARRANTY INFORMATION

United States and Canada: Standard Thermo Scientific Harris models carry a one-year warranty on parts and labor for the ELT, SLT and DLT respectively series. Cryostar models carry a one-year parts and labor warranty plus an additional four-years on compressor parts.

CERTIFICATION INFORMATION AND LINE CORD INFO

- Meets NEMA, UL61010-1, UL471, CUL, CE, IEC60335-2-89/Climate Class T (Tropical) criteria
- Calibration Certification Available
- Validation Testing Program Available



North America: USA/Canada +1 866 984 3766

Europe: Austria +43 1 801 40 0, Belgium +32 2 482 30 30, Finland +358 9 329 100, France +33 2 2803 2000, Germany national toll free 08001-536 376, Germany international +49 6184 90 6940, Italy +39 02 95059 1, Netherlands +31 76 571 4440, 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 5850 3588, India +91 22 5542 9494, Japan +81 45 453 9220, Other Asian countries +852 2885 4613

Countries not listed: +49 6184 90 6940 or +33 2 2803 2000

www.thermo.com/cold