

# Elite Series

## Ultra-Low Temperature Freezers



Refrigeration	Control
★★★★★ Legaci®	★★★★★ Microprocessor

Choose from four upright and six chest models, temperatures to  $-86^{\circ}\text{C}$  and  $-40^{\circ}\text{C}$ . Temperature recorders, racks, boxes and gloves optional.

### Elite Series Operating Temperature

- $-86^{\circ}\text{C}$ , Range  $-40^{\circ}\text{C}$  to  $-86^{\circ}\text{C}$
- $-40^{\circ}\text{C}$ , Range  $-10^{\circ}\text{C}$  to  $-40^{\circ}\text{C}$
- Air-cooled refrigeration systems are engineered to maintain design temperatures in warm  $32^{\circ}\text{C}$  ( $+90^{\circ}\text{F}$ ) ambient conditions

### Refrigeration System

- Exclusive Legaci system with air-cooled compressor(s), 1 HP
- CFC-free refrigerants, DuPont Suva® 95 low-stage refrigerants
- Downfeed evaporator for most efficient refrigerant flow
- High-capacity air-cooled condenser with dual condenser fans, aerodynamically shaped fan blades
- Washable condenser filter keeps fins free of dust to maintain peak cooling efficiency; no tools required for removal

### Control System

- Microprocessor control system with touchpad data entry and digital display of all functions
- Key-operated switch for main power and alarm
- Independent operating temperature and high/low limit alarm functions with factory-set defaults for quick start-up, all setpoints adjustable in  $1^{\circ}\text{C}$  increments

### Electrical System

- Automatic voltage boost compensates for low voltage and brownout conditions
- On-board power monitoring with digital readout of incoming line voltage
- Optional free-standing surge suppressor minimizes effect of voltage spikes from incoming electrical service



Microprocessor control; shown with optional backup system.

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the future, inside

# Elite Series Ultra-Low Temperature Freezers



## Alarm System

- A.I.M. (Automatic Incident Monitor) identifies any temperature deviation beyond alarm setpoints, with rapid flash for current event, slow flash if event was self-corrected; A.I.M. archives most deviated temperature
- Adjustable safety alarm with automatic, continuous charge battery backup provides full alarm function in case of power failure
- Power failure or temperature deviation triggers audible and visual warning

- Digital battery indicator displays battery capacity; flashing low battery indicator advises when to replace battery
- Touchpad alarm test function physically warms internal probe to simulate alarm condition
- Optional RS-232 data port with system software package
- Exterior alarm contacts for connection to remote monitoring system

## Monitoring System

- Voltage boost indicator advises of low source voltage below safe parameters and indicates voltage boost system is activated

- Clean filter indicator light advises when to remove and wash condenser filter

## Cabinet Construction, All Models

- Minimum 5" (12.7cm) foamed-in-place urethane insulation, closed-cell, CFC-free, to protect product against high ambient conditions
- Heavy-gauge steel cabinet with high-impact powder paint finish
- Rounded interior corners for easy cleaning
- Access port, 1" (2.54cm) diameter, with cap
- Recessed heavy duty swivel casters

Refrigeration	Control
★★★★★	★★★★★
Legaci®	Microprocessor

Choose from four upright and six chest models, temperatures to -86°C and -40°C. Temperature recorders optional.

	Model No.	Cu.Ft./Liters	Voltage	Amps/Breaker (Plug)	Interior Dimensions inches/cm	Exterior Dimensions inches/cm	Ship Weight
Elite -40°C Upright Freezers Temperature Range -10°C to -40°C	ULT-1340-5A ULT-1340-5D ULT-1340-5V ULT-1340-5W	13.4/379	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	10.0/15 (P1) 5.7/15 (P4) 5.7/15 (P7) 5.7/15 (P8)	50.5"H x 19.5"F-B x 23.5"W 128cm x 49cm x 59cm	77.5"H x 29.75" F-B x 33.5"W 197cm x 76cm x 85cm	595 lbs/270 kg
	ULT-1740-5A ULT-1740-5D ULT-1740-5V ULT-1740-5W	17.2/487	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	10.0/15 (P1) 5.7/15 (P4) 5.7/15 (P7) 5.7/15 (P8)	50.5"H x 25"F-B x 23.5"W 128cm x 63cm x 59cm	77.5"H x 35.25" F-B x 33.5"W 197cm x 90cm x 85cm	630 lbs/286 kg
	ULT-2140-5A ULT-2140-5D ULT-2140-5V ULT-2140-5W	20.2/572	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	11.1/15 (P1) 5.8/15 (P4) 5.8/15 (P7) 5.8/15 (P8)	50.5"H x 24.25" F-B x 28.5"W 128cm x 61cm x 72cm	77.5"H x 34.5" F-B x 38.5"W 197cm x 88cm x 98cm	680 lbs/309 kg
	ULT-2540-5A ULT-2540-5D ULT-2540-5V ULT-2540-5W	24.4/691	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	11.1/15 (P1) 5.8/15 (P4) 5.8/15 (P7) 5.8/15 (P8)	50.5"H x 24.25" F-B x 34.5"W 128cm x 61cm x 87cm	77.5"H x 34.5" F-B x 44.5"W 197cm x 88cm x 113cm	770 lbs/350 kg
Elite -40°C Chest Freezers Temperature Range -10°C to -40°C	ULT-350-5A ULT-350-5D ULT-350-5V ULT-350-5W	3.1/88	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	10.0/15 (P1) 5.4/15 (P4) 5.4/15 (P7) 5.4/15 (P8)	17"H x 17" F-B x 19"W 43cm x 43cm x 48cm	45.5"H x 27" F-B x 29"W 116cm x 69cm x 74cm	355 lbs/161 kg
	ULT-750-5A ULT-750-5D ULT-750-5V ULT-750-5W	6.8/193	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	8.5/15 (P1) 4.5/15 (P4) 4.5/15 (P7) 4.5/15 (P8)	26.5"H x 19" F-B x 23.5"W 67cm x 48cm x 59cm	41"H x 29" F-B x 48.5"W 104cm x 74cm x 124cm	470 lbs/213 kg
	ULT-1050-5A ULT-1050-5D ULT-1050-5V ULT-1050-5W	10.3/292	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	8.5/15 (P1) 4.5/15 (P4) 4.5/15 (P7) 4.5/15 (P8)	26.5"H x 19" F-B x 35.25"W 67cm x 48cm x 89cm	41"H x 29" F-B x 60.25"W 104cm x 74cm x 153cm	500 lbs/227 kg
	ULT-1450-5A ULT-1450-5D ULT-1450-5V ULT-1450-5W	13.7/388	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	8.5/15 (P1) 4.5/15 (P4) 4.5/15 (P7) 4.5/15 (P8)	26.5"H x 19" F-B x 47"W 67cm x 48cm x 119cm	41"H x 29" F-B x 72"W 104cm x 74cm x 183cm	650 lbs/295 kg
	ULT-1750-5A ULT-1750-5D ULT-1750-5V ULT-1750-5W	17.1/484	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	8.5/15 (P1) 4.5/15 (P4) 4.5/15 (P7) 4.5/15 (P8)	26.5"H x 19" F-B x 58.75"W 67cm x 48cm x 149cm	41"H x 29" F-B x 83.75"W 104cm x 74cm x 213cm	650 lbs/295 kg
	ULT-2050-5A ULT-2050-5D ULT-2050-5V ULT-2050-5W	20.5/580	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	8.5/15 (P1) 4.5/15 (P4) 4.5/15 (P7) 4.5/15 (P8)	26.5"H x 19" F-B x 70.5"W 67cm x 48cm x 179cm	41"H x 29" F-B x 95.5"W 104cm x 74cm x 243cm	685 lbs/311 kg

### Upright Cabinet Construction

- CryoLatch™ integrated door handle and latch assembly allows for easy right- or left-handed operation, and includes standard key lock and provision for padlock
- Pressure equalization port combats vacuum created by pressure differential upon door closing, allowing re-entry to cabinet within 30 seconds
- Low profile design, only 77.5" (197 cm) high
- Five high-impact plastic inner doors with independent door hinges and positive magnetic latches
- Four shelves (three adjustable) to create five interior compartments

- Minimum 3.5" (7.6cm) high-density door insulation, CFC-free

### Chest Cabinet Construction

- Low-profile design for easier access to inventory
- Heavy duty counterbalanced lid with integrated keyed lid lock for security; 3.1 cu.ft. (88 liter) model includes locking provision only
- Double seal lid gaskets to minimize frost buildup
- Independent sub-lids provide additional protection

### Inventory Systems and Accessories

- Optional inventory components including racks, boxes and dividers may be ordered separately or as full-load inventory systems
- See Accessories section for information on optional temperature recorders, LN<sub>2</sub>/CO<sub>2</sub> backup systems, inventory components, validation testing, calibration certificates and associated products

### Line Cord Plug Reference

Freezers with this code	have this plug	require this receptacle	NEMA Reference	
			Plug	Receptacle
P1			5-15P	5-15R
P2			5-20P	5-20R
P4			6-15P	6-15R
International				
P7			European	
P8			British	

	Model No.	Cu.Ft. /Liters	Voltage	Amps/Breaker (Plug)	Interior Dimensions inches/cm	Exterior Dimensions inches/cm	Ship Weight
<b>Elite -86°C Upright Freezers</b> Temperature Range -50°C to -86°C	<b>ULT-1386-5A</b> <b>ULT-1386-5D</b> <b>ULT-1386-5V</b> <b>ULT-1386-5W</b>	13.4 /379	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	16.0/20 (P2) 7.5/15 (P4) 7.5/15 (P7) 7.5/15 (P8)	50.5"H x 19.5"F-B x 23.5"W 128cm x 49cm x 59cm	77.5"H x 29.75"F-B x 33.5"W 197cm x 76cm x 85cm	655 lbs/297 kg
	<b>ULT-1786-5A</b> <b>ULT-1786-5D</b> <b>ULT-1786-5V</b> <b>ULT-1786-5W</b>	17.2 /487	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	16.0/20 (P2) 7.5/15 (P4) 7.5/15 (P7) 7.5/15 (P8)	50.5"H x 25"F-B x 23.5"W 128cm x 63cm x 59cm	77.5"H x 35.25"F-B x 33.5"W 197cm x 90cm x 85cm	660 lbs/300 kg
	<b>ULT-2186-5A</b> <b>ULT-2186-5D</b> <b>ULT-2186-5V</b> <b>ULT-2186-5W</b>	20.2 /572	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	16.0/20 (P2) 8.5/15 (P4) 8.5/15 (P7) 8.5/15 (P8)	50.5"H x 24.25"F-B x 28.5"W 128cm x 61cm x 72cm	77.5"H x 34.5"F-B x 38.5"W 197cm x 88cm x 98cm	745 lbs/338 kg
	<b>ULT-2586-5A</b> <b>ULT-2586-5D</b> <b>ULT-2586-5V</b> <b>ULT-2586-5W</b>	24.4 /691	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	16.0/20 (P2) 8.5/15 (P4) 8.5/15 (P7) 8.5/15 (P8)	50.5"H x 24.25"F-B x 34.5"W 128cm x 61cm x 87cm	77.5"H x 34.5"F-B x 44.5"W 197cm x 88cm x 113cm	830 lbs/377 kg
<b>Elite -86°C Chest Freezers</b> Temperature Range -40°C to -86°C	<b>ULT-390-5A</b> <b>ULT-390-5D</b> <b>ULT-390-5V</b> <b>ULT-390-5W</b>	3.1 /88	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	16.0/20 (P2) 11.2/15 (P4) 11.2/15 (P7) 11.2/15 (P8)	17"H x 17"F-B x 19"W 43cm x 43cm x 48cm	45.5"H x 27"F-B x 29"W 116cm x 69cm x 74cm	415 lbs/188 kg
	<b>ULT-790-5A</b> <b>ULT-790-5D</b> <b>ULT-790-5V</b> <b>ULT-790-5W</b>	6.8 /193	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	16.0/20 (P2) 11.2/15 (P4) 11.2/15 (P7) 11.2/15 (P8)	26.5"H x 19"F-B x 23.5"W 67cm x 48cm x 59cm	41"H x 29"F-B x 48.5"W 104cm x 74cm x 124cm	525 lbs/238 kg
	<b>ULT-1090-5A</b> <b>ULT-1090-5D</b> <b>ULT-1090-5V</b> <b>ULT-1090-5W</b>	10.3 /292	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	16.0/20 (P2) 11.2/15 (P4) 11.2/15 (P7) 11.2/15 (P8)	26.5"H x 19"F-B x 35.25"W 67cm x 48cm x 89cm	41"H x 29"F-B x 60.25"W 104cm x 74cm x 153cm	680 lbs/308 kg
	<b>ULT-1490-5A</b> <b>ULT-1490-5D</b> <b>ULT-1490-5V</b> <b>ULT-1490-5W</b>	13.7 /388	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	16.0/20 (P2) 11.2/15 (P4) 11.2/15 (P7) 11.2/15 (P8)	26.5"H x 19"F-B x 47"W 67cm x 48cm x 119cm	41"H x 29"F-B x 72"W 104cm x 74cm x 183cm	650 lbs/295 kg
	<b>ULT-1790-5A</b> <b>ULT-1790-5D</b> <b>ULT-1790-5V</b> <b>ULT-1790-5W</b>	17.1 /484	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	16.0/20 (P2) 11.2/15 (P4) 11.2/15 (P7) 11.2/15 (P8)	26.5"H x 19"F-B x 58.75"W 67cm x 48cm x 149cm	41"H x 29"F-B x 83.75"W 104cm x 74cm x 213cm	770 lbs/350 kg
	<b>ULT-2090-5A</b> <b>ULT-2090-5D</b> <b>ULT-2090-5V</b> <b>ULT-2090-5W</b>	20.5 /580	115V 60Hz 1Ø 208/230V 60Hz 1Ø 220V 50Hz 1Ø 240V 50Hz 1Ø	16.0/20 (P2) 11.2/15 (P4) 11.2/15 (P7) 11.2/15 (P8)	26.5"H x 19"F-B x 70.5"W 67cm x 48cm x 179cm	41"H x 29"F-B x 95.5"W 104cm x 74cm x 243cm	940 lbs/427 kg