

Nor-Lake Scientific -86C Select Ultra-Low Upright Freezers

Manufacturer: Nor-Lake, Inc.

SKU#: 8265-10-0198



- Norlake ULT cools down to an astonishing -86°C
- Robust Construction you would expect from Norlake Scientific
- Advanced PLC (programmable logic) microprocessor controller (door mounted eye level display and interface)
- Five internal storage compartments with four heavy duty reinforced stainless steel shelves.
- Suitable for a wide range of applications
- Microprocessor controlled 24 hour back-up

Product Description

Norlake Scientific Freezers are designed to meet the demanding requirements for scientific and laboratory research. Advanced engineered design incorporates the latest in cabinet, refrigeration, temperature control and monitoring features. Nor-Lake® Scientific -86°C Select™ Ultra-Low Upright Freezers provide energy efficient, convenient, safe and reliable performance for optimal storage temperature environments necessary for a wide range of life science, pharmacy, biological, medical, clinical, and industrial applications. Nor-Lake® Scientific -86°C Select™ Ultra-Low Upright Freezers Applications

Norlake ULT Freezers are ideally suited for many storage applications including antibiotics, autopsy material, ablood body fluids, cells, chemicals, chemistry materials, conditioning, cultures, DNA/RNA, drugs, electronics, environmental samples, enzymes, epoxy, fungi, glycerin stocks, insect artifacts, plant samples, plasma, proteins, reagents, serum, tissues, urine, vaccines, virus, yeast and many others! NOR-LAKE CONSTRUCTION The Nor-Lake® Scientific -86°C Select™ Ultra-Low Upright Freezer use CFC free polyurethane cabinet and door foam insulation. High-impact, smooth scratch and corrosion resistant painted exterior and smooth white painted interior, provides attractive appearance and easy to clean surfaces. Interior and exterior of the freezer cabinet are white painted galvanized steel. Combination cabinet mounted multi-bulb and door perimeter gaskets provide multiple points of door sealing. Ensures reliable frost resistant performance and enhances energy efficient cold performance for long term sample security and storage. The Nor-Lake® Scientific -86°C Select™ ULT Upright Freezers interior doors feature independent hinged steel inner doors are constructed of insulating material with magnetic catch and easy pull handles. Reduces cold loss during door openings and sample retrieval. Five internal storage compartments with four heavy duty reinforced stainless steel shelves. Shelves are adjustable in 1 inch increments. Compatible with optional stainless steel storage racks, fiberboard boxes and dividers for multiple storage needs. Multi-feed patent pending cold wall evaporator design provides superior refrigerant flow and maximizes cooling power by ensuring that the evaporator is always 100% in contact with the freezer wall, maximizing cold transfer into the freezer and heat removal from the chamber. Nor-Lake® Scientific -86°C Select™ Ultra-Low Upright Freezers use easy open integrated outer door latch and handle allows one-handed opening and closing. Door latch and handle key lock for added security and protected access to freezer contents. Three adjustable heavy-duty door hinges ensure outer door fit and positive seal. Exclusive chamber vacuum relief system allows convenient and fast re-entry to cabinet upon outer door closing. Door activated electro-magnetic switch for use with door ajar alarm, optional CO2/LN2 backup systems and vacuum relief system. 1 inch diameter sensor access ports (2), located in top and bottom of back wall of cabinet for use with monitoring sensor probes. The Nor-Lake® Scientific -86°C Select™ ULT Upright Freezers have heavy duty swivel locking casters and two front adjustable leveling feet allow for easy mobility of freezer and stability upon final placement of freezer. Low profile external cabinet height. SELECT™ CONTROL SYSTEM The Nor-Lake® Scientific -86°C Select™ Ultra-Low Upright Freezers utilizes advanced PLC (programmable logic) microprocessor controller (door mounted eye level display and interface) includes real time clock, event logging alarm history, advanced

alarms, alarm-test, and memory functions. Password protection (2 levels, setpoints and parameters) security for power, temperature and alarm settings. Key pad, multifunction, menu driven, LCD display for trouble free access on monitoring of all control features. Temperature adjustable in 0.1°C increments. Temperature display to 0.1°C increments. Control probe located in rear wall bottom left corner for optimal and accurate temperature measurement and control. The Nor-Lake® Scientific -86°C Select™ ULT Upright Freezers features a power on/off switch located in protected area on back of cabinet. Power failure alarm (audible and visual). Time selectable. Door ajar indicator (audible and visual). Remote alarm contact connections located on back of cabinet for easy installation and access. Compressor protection monitors compressor performance and automatically adjusts to internal and external conditions. Delayed startup (programmable) delays freezer restart after power interruption. Surge protection minimizes voltages spikes; protects system electronics. The Nor-Lake® Scientific -86°C Select™ Ultra-Low Upright Freezers uses an exclusive (patent pending) voltage boost/buck system ensures proper operating voltage to operating system. Reduces incoming line voltage if too high and boosts line voltage if too low. Audible and visual Hi/Lo temperature alarms are user settable via controller keypad. On-board system and maintenance diagnostics continuously monitors system sensors to ensure optimal freezer performance. Ambient temperature monitor and alarm indicate room temperature conditions. 24-hour back-up microprocessor battery continuously recharged with low battery indicator. 2-10 VDC cabinet air temperature transmitter. Dry erase board and pocket storage organizer for user comments, notes and documents storage. Dry eraser and markers included.

SELECT™ REFRIGERATION SYSTEM Nor-Lake Scientific's Select™ Refrigeration system is powered by an advanced low noise high performance cascade refrigeration system using two next generation 1 HP hermeticallysealed compressors. Exclusive engineered super capacity (tri-tube) capillary tube system (patent pending) delivers refrigerant on demand matching with advanced heat exchanger design providing optimal heat removal and superior low temperature performance. Evaporator design enhances refrigerant flow increasing the overall efficiency, temperature uniformity and recovery performance. Air cooled condenser, high capacity with large surface area. Washable condenser filter maintains optimal efficiency and performance. Clean filter indicator advises when to remove and clean. Easy service and maintenance. CFC-Free, commercially available refrigerants are used: R404a in first stage; R508b in second stage.

Nor-Lake Scientific -86C Select Ultra-Low Upright Freezers Specification

Nor-Lake® Scientific -86°C Select™ Ultra-Low Upright Freezers Specifications

Models	NSSUF151	NSSUF191	NSSUF241	NSSUF281
Crate Weight (lbs) (kg)	665 (297)	685 (316)	715 (325)	745 (338)
Crate Height (lbs) (kg)	83 (211)	83 (211)	83 (211)	5 (211)
Crate Width (lbs) (kg)	39.4 (100)	39.4 (100)	45.2 (115)	51 (130)
Crate Depth (lbs) (kg)	43 (109)	43 (109)	43 (109)	43 (109)
Interior Height (lbs) (kg)	53 (134)	53 (134)	53 (134)	53 (134)
Interior Width(lbs) (kg)	19.4 (49.3)	25.2 (64)	31.1 (78)	36.8 (93)
Interior Depth (lbs) (kg)	24.3 (61)	24.3 (61)	24.3 (61)	24.3 (61)
Overall Height (lbs) (kg)	77.8 (197)	77.8 (197)	77.8 (197)	77.8 (197)
Overall Width (lbs) (kg)	30.8 (78.2)	36.5 (92)	42.3 (107)	48.2 (122)
Overall Depth (lbs) (kg)	36.1 (91)	36.1 (91)	36.1 (91)	36.1 (91)
Capacity (CuFt) (L)	14.3 (405)	18.9 (539)	23.2 (659)	27.5 (781)

Exterior dimensions include allowances for hinges door handle and control panel

Internal Chamber (CuFt) (L)	14.3 (405)	18.9 (539)	23.2 (659)	27.5 (781)
Number of Outer Doors	1	1	1	1
Number of Inner Doors	5	5	5	5
# of Shelves/ Compartments	4/5	4/5	4/5	4/5
Total Qty. Racks w/ 2" Boxes	15	20	25	30
Qty of 2" Boxes per Rack	16	16	16	16
Total Qty. Racks w/ 2" Boxes per Cabinet	240	320	400	480

Internal Chamber (CuFt) (L)	14.3 (405)	18.9 (539)	23.2 (659)	27.5 (781)
Number of Outer Doors	1	1	1	1
Number of Inner Doors	5	5	5	5
# of Shelves/ Compartments	4/5	4/5	4/5	4/5
Total Qty. Racks w/ 2" Boxes	15	20	25	30
Qty of 2" Boxes per Rack	12	12	12	12
Total Qty. Racks w/ 2" Boxes per Cabinet	180	240	300	360

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