



## Industrial Freezer Sales

A division of IDS

5311 Derry Avenue Building D Agoura Hills CA 91301

Phone (818) 597-4300 Fax (818) 597-4301

[www.freezerlink.com](http://www.freezerlink.com)

# UCUF191S-86, UCUF241S-86 and UCUF281S-86 UPRIGHT ULTRACOLD FREEZERS

## Control and Alarm Features

- Manual defrost, adjustable control range from **-50°C to -86°C**.
- **UL/CUL Listed.**
- Factory preset at -80°C.
- Advanced PLC (programmable logic) microprocessor controller, **door mounted eye level display and interface.**
- Power on/off switch located in protected area on back of cabinet.
- Real time clock, event logging, alarm history, advanced alarms, alarm-test and memory functions.
- **Password protection** - 2 levels set points and parameters, security for power, temperature and alarm settings.
- Key pad, multifunction, menu driven, LCD display for trouble free access for monitoring of all control features.
- **Temperature adjustable in .1°C increments.**
- Temperature display to .1°C increments.
- Control probe located on rear wall bottom left corner for optimal and accurate temperature measurement and control.
- **Automatic voltage fluctuation compensation**, low voltage boost/ high voltage buck.
- Incoming voltage monitoring and digital display with built-in surge suppressor with indicator, power failure alarm (audible and visual).
- **Time selectable alarm test**
- Ambient temperature alarm & indicator indicate room temperature conditions
- Condenser/compressor protection monitors performance and automatically adjusts to internal and external conditions.
- **Audible and visual Hi/Lo temperature alarms**, user settable via controller keypad, set point and controller access security (key or password)
- Clean filter alarm & indicator with event logging alarm history
- **Door ajar indicator** (audible and visual)
- Remote alarm contacts located on back of cabinet for easy installation and access
- Exclusive voltage system ensures proper operating voltage to operating system which reduces incoming line voltage if too high and boosts line voltage if too low.
- **Solid state relay and circuit breaker**





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- Automatic delay restart (time programmable) delays freezer restart after power interruption, surge protection minimizes voltage spikes; protects system electrical components.
- Continuous recharging 24 hour battery backup for controller system functions with low battery indicator.
- **2-10 VDC cabinet air temperature transmitter**
- Dry erase board and pocket storage organizer - door mounted for user comments, notes and document storage. Dry markers, (4 multi-colors) and dry-eraser included.

### Refrigeration System Features

- Exclusive refrigeration system is powered by an advanced **low noise high performance cascade refrigeration system using two next generation 1HP hermetically sealed compressors.**
- Exclusive engineered super capacity (tri-tube) **capillary tube system 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. Easy to access and remove and a clean filter indicator advises when to remove and clean
- **CFC free, commercially available refrigerants are used:** R404a in first stage: R508B in second stage.

### Cabinet Construction Features

- **CFC free closed cell urethane foam insulation cabinet and door**
- High impact, smooth scratch and corrosion resistant painted white exterior and **smooth white painted interior provides attractive appearance** and easy to clean surfaces. Cabinet base, door handle and control bezel painted in gray
- **Interior, exterior of freezer cabinet are painted white galvanized steel.**
- Combination cabinet mounted multi-bulb and door perimeter gaskets provide multiple points of door sealing, which ensures reliable frost resistant performance and energy efficient performance for long term sample security and storage.
- **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, boxes and dividers for multiple storage needs. **Interior standards can be removed for larger compartments.**
- **Multi-feed cold wall evaporator design** provides superior refrigerant flow and maximizes cooling power - the evaporator is always 100% in contact with the outer freezer chamber wall, maximizing cold transfer heat removal.



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- **Easy open integrated outer door latch and handle allows one handed** opening and closing. Door latch and handle and are key lockable for added security and protected access to freezer contents. **2 keys provided**, padlock compatible.
- Low profile cabinet height.
- **Three adjustable heavy duty door hinges** ensure fit and positive seal.
- Exclusive 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, optional CO2/LN2 backup systems and vacuum relief system.
- **Sensor access ports (2) 1" diameter is located in top and bottom back wall of cabinet for use with sensor probes.**
- Heavy duty swivel locking casters (4) and two adjustable leveling feet allow for easy mobility of freezer and stability upon final placement of freezer.
- Low profile external cabinet height for easy movement thru hallways, doorways and elevators.
- Insulated outer door painted white with **180 degree door swing is right hand opening only.**
- Holds 20 inventory racks- 4 racks per shelf storage.
- Packaging/crating/ramp for easy installation.
- User operator manual included.
- **Warranties:** 18 month parts and labor, **5 year compressor** (US and Canada) 18 months parts (International).

### Options & Accessories for UltraCold Freezers (specify when ordering)

<b>UCNSR244</b>	Inventory Rack SS, holds 16- 2" boxes
<b>UCNSR334</b>	Inventory Rack SS, holds 12- 3" boxes
<b>UCND49</b>	Cell dividers 7x7 grid, 1 ea
<b>UCND64</b>	Cell dividers 8x8 grid, 1 ea
<b>UCND81</b>	Cell dividers 9x9 grid, 1 ea
<b>UCND100</b>	Cell dividers 10x10 grid, 1 ea
<b>UCNBOX2</b>	2" Fiber board storage box, 1 ea
<b>UCNBOX3</b>	3" Fiber board storage box, 1 ea
<b>UCMA420ULT</b>	4-20ma output temperature
<b>UCRS485ULT</b>	RS485 Communications
<b>UCPHONEDIALER</b>	Phone dialer
<b>UCNORSOFTULT</b>	Software Package
<b>UCSECUREGUARDULT</b>	Secure Guard Door Lock/Access ProxKey
<b>UCLN2ULT</b>	CO2 backup system (Factory Install)
<b>UCCO2ULT</b>	LN2 backup system (Factory Install)
<b>UCRECORDULT</b>	Chart Recorder w/paper (Factory Install)
<b>UCCABMOUNTULT</b>	Seismic Mounting Kit
<b>UCEXPCRATEULT</b>	Export Crating (required for export shipments)

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# Upright UltraCold Freezer Specifications

## UCUF191S-86 UPRIGHT ULTRACOLD FREEZER

**Capacity:** 18.9ft. (539 L)

**Cabinet External Dims:** 33.3"W (84 cm) x 33.5"D (85 cm) x 77.8"H (197 cm)

**Cabinet, Hinges & Handle:** 36.5"W (92 cm) x 36.1"D (91 cm) x 77.8"H (197 cm)

**Internal Dimensions:** 25.2"W (64 cm) x 24.3"D (61 cm) x 53"H (134 cm)

**Shelf Dimensions:** 23.5"W (59 cm) x 22.3"D (56 cm)

**Voltages:** **115V:** 1PH, 60HZ, **208/230V:** 1PH, 60HZ, **220V:** 1PH, 50HZ

**Plug Type:** (**115V**) 5-20P, (**208**) 6-15P, (**220V**) Plug & Cord supplied locally

**Amps:** (**115V**) 16, (**208**) 12, (**220V**) 12

**Shipping weight:** All units 685 lbs. (316 kg)

## UCUF241S-86 UPRIGHT ULTRACOLD FREEZER

**Capacity:** 23.2ft (659 L)

**External Dims:** Cabinet Only: 39.1"W (99 cm) x 33.5"D (85 cm) x 77.8"H (197 cm)

**Cabinet, hinges & handle:** 42.3"W (107 cm) x 36.1"D (91 cm) x 77.8"H (197 cm)

**Internal Dims:** 31.1"W (78 cm) x 24.3"D (61 cm) x 53"H (134 cm)

**Shelf Dimensions:** 29.3"W (74 cm) x 22.3"D (56 cm)

**Voltages:** **115V:** 1PH, 60HZ, **208/230V:** 1PH, 60HZ, **220V:** 1PH, 50HZ

**Plug Type:** (**115V**) 5-20P, (**208**) 6-15P, (**220V**) Plug & Cord supplied locally

**Amps:** (**115V**) 16, (**208**) 12, (**220V**) 12

**Shipping weight:** All units 715 lbs. (325 kg)

## UCUF281S-86 UPRIGHT ULTRACOLD FREEZER

**Capacity:** 27.5ft (781 L)

**External Dims, Cab Only:** 45"W (114 cm) x 33.5"D (85 cm) x 77.8"H (197 cm)

**Cabinet, hinges & handle:** 48.2"W (122 cm) x 36.1"D (91 cm) x 77.8"H (197 cm)

**Internal Dimensions:** 36.8"W (93 cm) x 24.3"D (61 cm) x 53"H (134 cm)

**Shelf Dimensions:** 35.2"W (89 cm) x 22.3"D (56 cm)

**Voltages:** **115V:** 1PH, 60HZ, **208/230V:** 1PH, 60HZ, **220V:** 1PH, 50HZ

**Plug Type:** (**115V**) 5-20P, (**208**) 6-15P, (**220V**) Plug & Cord supplied locally

**Amps:** (**115V**) 16, (**208**) 12, (**220V**) 12

**Shipping weight:** 745 lbs. (338 kg)



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### UCUF191S-86, UCUF241S-86 and UCUF281S-86

**Manual defrost Upright Ultra Cold** freezers have an adjustable control range from -50°C to -86°C and are UL/CUL Listed. **They come factory preset at -80°C, changeable on request.** An advanced PLC (programmable logic) microprocessor controller, door mounted eye level display and interface are prominently featured on the center of the door.

The unit also features a time-selectable alarm test and ambient temperature alarm & indicator, which indicate room temperature conditions. **Condenser/compressor protection monitors performance and automatically adjusts to internal and external conditions.** Automatic voltage fluctuation compensation, low voltage boost/ high voltage buck track incoming voltage monitoring and utilize a digital display with built-in surge suppressor with indicator, power failure alarm (audible and visual). **Audible and visual Hi/Lo temperature alarms**, user settable via controller keypad, set point and controller access security (key or password).

The refrigeration system is powered by an advanced low noise high performance cascade refrigeration system using two next generation 1HP hermetically sealed compressors. Exclusive engineered super capacity (tri-tube) capillary tube system 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. **Cabinets are powder coated White paint with trim accents.**

UltraCold Upright Freezers (Rated from -50C to -86C)	
UCUF191S	UltraLow - 86C, <b>18.9</b> Cubic Ft. 115V, 60Hz
UCUF191S208	UltraLow - 86C, <b>18.9</b> Cubic Ft. 208/230V, 60Hz
UCUF191SE	UltraLow - 86C, <b>18.9</b> Cubic Ft. 230V, 50Hz
UCUF241S	UltraLow - 86C, <b>23.2ft</b> Cubic Ft. 208/230V, 60Hz
UCUF24S208	UltraLow - 86C, <b>23.2ft</b> Cubic Ft. 208/230V, 60Hz
UCUF241SE	UltraLow - 86C, <b>23.2ft</b> Cubic Ft. 230V, 50Hz
UCUF281S	UltraLow - 86C, <b>27.5ft</b> Cubic Ft. 115V, 60Hz
UCUF281S208	UltraLow - 86C, <b>27.5ft</b> Cubic Ft. 208/230V, 60Hz
UCUF281SE	UltraLow - 86C, <b>27.5ft</b> Cubic Ft. 230V, 50Hz



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<b>UltraCold Upright Freezer Options</b>	
<b>UCNSR244</b>	Rack, SS, Holds (16) 2 inch boxes
<b>UCNSR334</b>	Rack, SS, Holds (12) 3 inch boxes
<b>UCNBOX2</b>	2" Fiber board storage box, 1 ea
<b>UCNBOX3</b>	3" Fiber board storage box, 1 ea
<b>UCND100</b>	Cell Divider 10x10 Grid, 1 ea
<b>UCND81</b>	Cell Divider 9x9 Grid, 1 ea
<b>UCND64</b>	Cell Divider 8x8 Grid, 1 ea
<b>UCND49</b>	Cell Divider 7x7 Grid, 1 ea
<b>UCMA420ULT</b>	4-20 MA Output
<b>UCRS485ULT</b>	RS485 Communications
<b>UCPHONEDIALER</b>	Auto Dialer
<b>UCNORSOFTULT</b>	Software Package
<b>UCSECUREGUARDULT</b>	Secure Guard Door ProxKey
<b>UCSECURESOFTULT</b>	Secure Guard Lock Software
<b>UCLN2ULT</b>	LN2 Backup System (Factory)
<b>UCCO2ULT</b>	CO2 Backup System (Factory)
<b>UCRECORDULT</b>	Chart Recorder w/paper (Factory)
<b>UCCABMOUNTULT</b>	Seismic Mounting Kit
<b>UCEXPCRATEULT</b>	Export Crating



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