



# Ultra-Low Temperature Upright Deep Freezer

Undercounter ULT Freezer  
Cryogenic Biomedical ULT Lab Freezer  
Dual Cooling Biomedical Freezer  
Cascade System Lab Freezer



## -86°C Ultra-Low Temperature Upright Deep Freezer Undercounter ULT Freezer



## Undercounter ULT Freezer

RoyLab Ultra Low Temperature (ULT) Undercounter Freezer is specially designed and manufactured for long term storage of various biological products, including viruses, germs, erythrocytes, leucocyte and cutis. Applications can be found in blood banks, hospitals, epidemic prevention service, research institutes, laboratories in electronic and chemical plants, and biological engineering institutes.



Brand:	RoyLab
Temperature Range:	-40°C to -86°C
Capacity:	58L
Cooling Type:	Direct cooling
Display:	LED display
Temp. Controller:	Microprocessor
Ambient Temperature:	10°C to 32°C
Power Supply:	220V/50Hz or 110V/60Hz





## -86°C Ultra-Low Temperature Upright Deep Freezer Cryogenic E-Freezer

# Cryogenic Biomedical ULT Lab Freezer

RoyLab Ultra Low Temperature (ULT) Cryogenic E-Freezer is specially designed and manufactured for long term storage of various biological products. The ultra freezer with professional control system is designed to achieve balanced operation of cascade refrigeration system.



Brand:	RoyLab
Temperature Range:	-40°C to -86°C
Capacity:	188L, 340L, 408L, 588L, 728L, 838L
Cooling Type:	Direct cooling
Display:	LED display
Temperature Controller:	Microprocessor
Ambient Temperature:	10°C to 32°C
Power Supply:	220V/50Hz or 110V/60Hz



# -86°C Ultra-Low Temperature Upright Deep Freezer Cryogenic Biomedical ULT Lab Freezer

6000\*

50400\*

40000\*

28800\*

19200\*

10800\*

2400\*



RLULT86-AC838E

RLULT86-AC728E

RLULT86-AC588E

RLULT86-AC408E

RLULT86-AC340E

RLULT86-AC180E

RLULT86-UC58

\*Number of 2ml tubes

## Product Features



### 7-Inch LCD Touch Screen

A 7-inch LCD touch screen with android operating system is designed for this refrigerator, to enable users to operate conveniently and quickly. Eye level touch screen integrates temperature display, history graphs, alarms and event logging.



### Ergonomically Designed Door Handle

The door handle could be easily operated with one hand, and automatic pressure release port allows the door to open and close frequently in daily use.



### Auto-Cascade Refrigeration System

Advanced automatic cascade refrigeration system has better cooling efficiency and energy saving. The cooling speed is increased by 10%. Also, the improved insulation technology reduces cooling loss by 15%.



### Versatile Configurations

Standard configuration with built-in USB data Logger, remote alarm and RS485 interface. Optional chart Recorder, water cooling system and CO<sub>2</sub>/LN<sub>2</sub> Backup system.



### 9 Types of Alarms

High and low temperature alarm, power failure alarm, high and low voltage alarm, sensor failure alarm, low battery alarm, condenser heat dissipation alarm, system failure alarm, etc, to ensure the safety of stored samples. Start-up delay and shutdown interval protection functions ensure reliable operation.

## Accessories



LN<sub>2</sub> / CO<sub>2</sub> Backup System



Data Logger

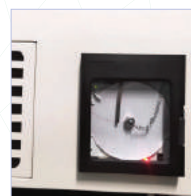


Chart Recorder



Racks & Boxes

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www.roylabglobal.com





## -86°C Ultra-Low Temperature Upright Deep Freezer Dual Cooling Biomedical Freezer



### Dual Cooling Biomedical Freezer

RoyLab Dual Cooling Biomedical Freezers is designed with independent dual cooling systems which provides extra insurance for Biomedical-samples. Dual cooling system maximizes optimal reliability, longevity and efficiency. Under normal working conditions, the 2 independent systems start in sequence at intervals.



Brand:	RoyLab
Temperature Range:	-40°C to -86°C
Capacity:	408L, 588L, 728L, 838L
Cooling Type:	Direct cooling
Display:	LCD display
Temperature Controller:	Microprocessor
Ambient Temperature:	10°C to 32°C
Power Supply:	220V/50Hz or 110V/60Hz





# -86°C Ultra-Low Temperature Upright Deep Freezer Dual Cooling Biomedical Freezer

60000\*



RLULT86-DC838

50400\*



RLULT86-DC728

40000\*



RLULT86-DC588

28800\*



RLULT86-DC408

\*Number of 2ml tubes

## Product Features



### Dual Independent Cooling System

Dual cooling system is designed with 2 independent cooling systems which provides extra insurance for Bio-samples.



### 7" LCD Touch Screen

A 7-inch LCD touch screen with Android operating system is designed to enable users to operate conveniently and quickly.



### Ultimate Cooling Performance

Under normal working conditions, the 2 independent systems start in sequence at intervals. Then 2 systems work together to get a rapid pull-down performance.



### Multi-Layer Sealing Design

Multi-layer sealing ensures energy efficiency and better insulation.

## Accessories



LN<sub>2</sub> / CO<sub>2</sub> Backup System



Data Logger

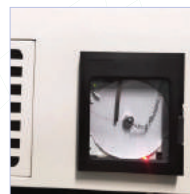


Chart Recorder



Racks & Boxes

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## -86°C Ultra- Low Temperature Upright Deep Freezer Cascade System Lab Freezer



## Cascade System Lab Freezer

RoyLab Cascade System Lab Freezer features highly reliable cascade system technology which is known for its stability and ease of maintenance, perfect for long-term storage of various biological products.



Brand:	RoyLab
Temperature Range:	-40°C to -86°C
Capacity:	338L, 408L, 588L, 728L, 838L
Cooling Type:	Direct cooling
Display:	LCD display
Temperature Controller:	Microprocessor
Power Supply:	220V/50Hz or 110V/60Hz



# -86°C Ultra- Low Temperature Upright Deep Freezer Cascade System Lab Freezer

60000\*



RLULT86-SC838

50400\*



RLULT86-SC728

40000\*



RLULT86-SC588

28800\*



RLULT86-SC408

19200\*



RLULT86-SC338

\*Number of 2ml tubes

## Product Features



### 7 inch LCD Touch Screen

ULT freezer features a 7 inch LCD touch-screen for easy operation and observation, which allows monitoring of all data.



### Extreme Safety

As the most proven ultra-low temperature refrigeration technology in the world, the cascade refrigeration technology has the characteristics of stable performance, easy maintenance and long service life.



### Ultimate Cooling Performance

Cascade Cooling System uses 2-stage refrigeration cycles coupled with each other via heat exchanger to improve the refrigeration effect.



### Multi-Layer Insulation Sealing Design

Advanced insulation materials and interior design of multiple independent spaces make ULTs more efficient in insulation and ensures less heat loss, which translates to better performance and energy saving.

## Accessories



LN<sub>2</sub> / CO<sub>2</sub> Backup System



Data Logger

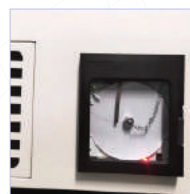


Chart Recorder



Racks & Boxes

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# -86°C Ultra-Low Temperature Upright Deep Freezer

## Undercounter ULT Freezer

Model No.	Shelf/Drawer Quantity	Dimensions (W*D*H) (mm)	Insulation	Chamber/ External Material	Racks	Boxes (2 Inches)	Samples Loading Quantity (2ml tubes)
RLULT86-UC58	Stainless steel shelf/1	635*757*1212	PURF	Stainless steel/Color sprayed steel	2(6X2)	24	2400

## Cryogenic E-Freezer

Model No.	Shelf/Drawer Quantity	Capacity (L/ cu. ft)	Dimensions (W*D*H) (mm)	Insulation	Racks	Boxes (2 Inches)	Samples Loading Quantity (2ml tubes)
RLULT86-AC188E	Stainless steel shelf/2	188/6.63	850*930*1595	PURF	9(4X3)	108	10800
RLULT86-AC340E	Stainless steel shelf/3	340/12	875*980*1900	PURF	12(4X4)	192	19200
RLULT86-AC408E	Stainless steel shelf/3	408/14.40	890*930*1945	PURF	16(5X4,4X4)	288	28800
RLULT86-AC588E	Stainless steel shelf/3	588/20.76	880*1090*1995	VIP plus PURF	16(5X5)	400	40000
RLULT86-AC728E	Stainless steel shelf/3	728/25.7	1229*1012*1994.5	VIP plus PURF	24(5*4/6*4)	504	50400
RLULT86-AC838E	Stainless steel shelf/3	838/29.59	1175*1075*1990	VIP plus PURF	24(5X5)	600	60000

## Dual Cooling Biomedical Freezer

Model No.	Shelf/Drawer Quantity	Capacity (L/ cu. ft)	Dimensions (W*D*H) (mm)	Insulation	Racks	Boxes (2 Inches)	Samples Loading Quantity (2ml tubes)
RLULT86-DC408	Stainless Steel Shelf/3	408/14.40	900*940*1940	PURF	16(5X4,4X4)	288	28800
RLULT86-DC588	Stainless Steel Shelf/3	588/20.76	885*1100*1995	VIP plus PURF	16(5X5)	400	40000
RLULT86-DC728	Stainless Steel Shelf/3	728/25.70	1260*890*2010	VIP plus PURF	12(5X4)+12(6X4)	504	50400
RLULT86-DC838	Stainless Steel Shelf/3	838/29.59	1190*1045*2010	VIP plus PURF	24(5X5)	600	60000

## Cascade System Lab Freezer

Model No.	Shelf/Drawer Quantity	Capacity (L/ cu. ft)	Dimensions (W*D*H) (mm)	Insulation	Racks	Boxes (2 Inches)	Samples Loading Quantity (2ml tubes)
RLULT86-SC338	Stainless Steel Shelf/3	338/11.93	880*980*1940	PURF	12(4X4)	192	19200
RLULT86-SC408	Stainless Steel Shelf/3	408/14.40	900*940*1940	PURF	16(5X4,4X4)	288	28800
RLULT86-SC588	Stainless Steel Shelf/3	588/20.76	880*1080*2000	VIP plus PURF	16(5X5)	400	40000
RLULT86-SC728	Stainless Steel Shelf/3	728/25.70	1248*975*1994.5	VIP plus PURF	18(5x4)+6(6x4)	504	50400
RLULT86-SC838	Stainless Steel Shelf/3	838/29.59	1190*1045*2010	VIP plus PURF	24(5X5)	600	60000