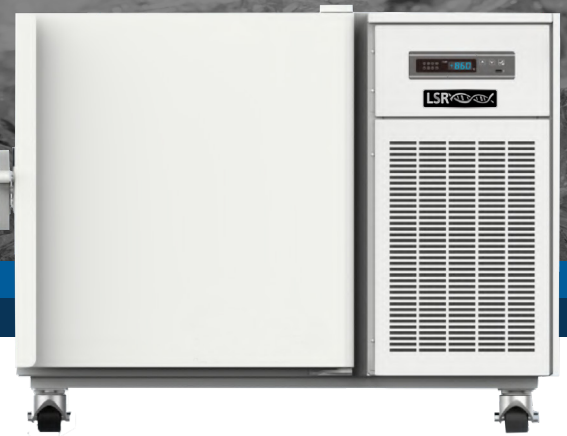


# LSRP85-3.5

3.5 Cubic Ft. Ultra-low Freezer



## Temperature Range (C°)

-40 to -86

## Exterior w x d x h (in)

42x29.2x32.2

## Internal w x d x h (in)

17.7x17.3x20.2

## Capacity (Cu.Ft)

3.5

## Weight (Lbs)

320

## -86°C Ultra-low Temperature Freezer

### High-Precision Temperature Control System

The high-precision computerized temperature control system ensures an adjustable temperature within a range from -40°C to -86°C inside the cabinet. The high-definition digital temperature display has a display accuracy of 0.1 °C.

### Visual & Audio Alarm system

Includes visual and audible alarms for high/low temperature, power failure, low battery, door ajar, high ambient temperature, and communication failure.

### Powerful Refrigeration System

The LSR85-100 ultra-low freezer is equipped with a high-efficiency compressor and EBM fan to save energy and be environmentally friendly. The large finned condenser delivers efficient and effective heat dissipation to ensure consistent ULT temperatures.

### Effective Thermal Insulation

This under-counter ultra-low freezer's door is equipped with vacuum insulation with seal. The six sides of the cabinet are made from high-performance vacuum insulation materials, which can provide effective thermal insulation.



### High-precision Temperature Control

- Digital temperature display simultaneously displays the chamber temperature, power supply voltage, ambient temperature and other parameters
- The high-precision microcomputer temperature control system and platinum resistor temperature sensors enable users to accurately control the internal temperature of the cabinet within a range from -40°C to -86°C.



### Refrigeration System

- The compressor and EBM fan are energy-saving and highly efficient.
- The large finned condenser with a 2mm space between fins provides effective heat dissipation.
- Comes standard with VIP board for high efficiency cooling performance.
- Door with hot gas pipe surrounding for ease of defrost.



### Supplies for Cryopreservation

Inventory racks/boxes for cryopreservation are available upon request.



### Thermal Insulation System

- The dual-layer insulated foamed door with double seal and the outdoor insulation design prevents loss of cooling capacity effectively.
- The six sides of the cabinet are made from a high-performance vacuum insulation material which greatly improves thermal insulation performance.



### Security System

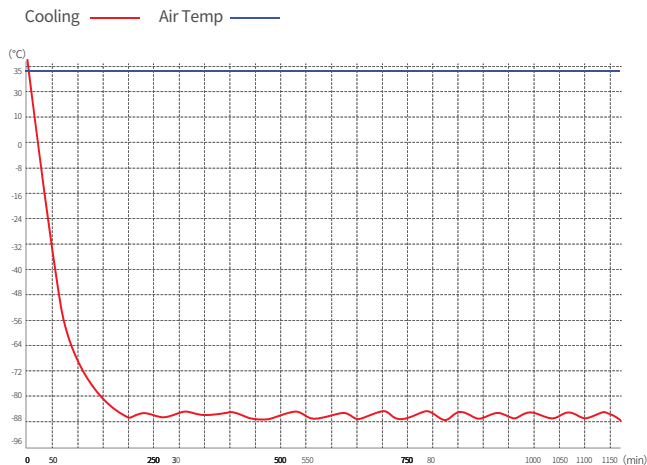
- Audible & visual alarm system includes: high/low temperature, sensor failure, door open, and power failure alarms
- The turn-on delay and stopping interval protection can ensure reliable operation
- The keyboard lock and password protection can prevent any adjustment of operational parameters without permission



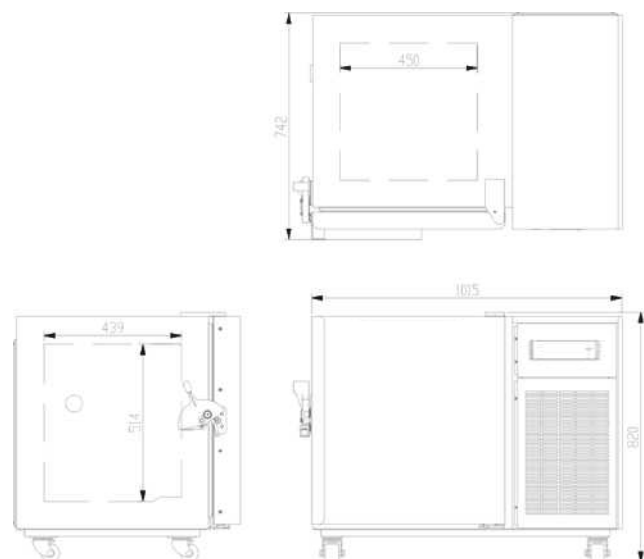
### Human-oriented

- The door includes an assisting handle for easy operation.
- Door handle with lock for security of samples.
- Galvanized steel sheet interior, low temperature resistance anti-corrosion for long service life and easy cleaning;
- 4 Direction casters for easy movement.

## Performance Data / Cooling Curve



## External Dimension



## Model

Cabinet Type	Upright
Capacity (Cu.Ft)	3.5
Internal Size (WxDxH) inches	17.7x17.3x20.2
External Size (WxDxH) inches	42x29.2x32.2
Package Size (WxDxH) inches	33x34x39
NW/GW(Lbs)	320/322

## Performance

Temperature Range C°	-40°~ -86°
Ambient Temperature	16-32°
Controller	Microprocessor
Display	Digital display

## Refrigeration

Compressor	Single
Cooling Method	Direct cooling
Defrost Mode	Manual
Refrigerant	HC mixture gas
Insulation Thickness(mm)	115

## Construction

External Material	Steel plates with spraying
Inner Material	304 stainless steel
Shelves	1(stainless steel)
Door Lock with Key	Yes
External Lock	Yes
Access Port	1pc. Ø 40 mm
Casters	4
Data Logging	USB/Record every 10 minute / 2 years
Backup Battery	Yes

## Alarm

Temperature	High/Low temperature, High ambient temperature, Power failure, and Low battery
Electrical System	Sensor error, Condenser cooling failure, Door ajar, Recorder error, Main board communication error

## Electrical

Power Supply(V/HZ)	110/60
Rated Current(A)	12.3

Due to periodic changes in designs, methods, procedures, policies and regulations, the specifications contained in this sheet are subject to change without notice. While we exercise good faith efforts to provide information that is accurate, we are not responsible for errors or omissions in information provided or conclusions reached as a result of using the specifications. By using the information provided, the user assumes all risks in connection with such use.

