

# LSRP85-1.75

1.75 Cubic Ft. Ultra-low Freezer



## -86°C Ultra-low Temperature Freezer

**Temperature Range (C°)**  
-40 to -86

**Exterior w x d x h (in)**  
37.5x27x29.8

**Internal w x d x h (in)**  
12x16.7x17

**Capacity(Cu.Ft)**  
1.75

**Weight (lbs)**  
230

### 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, and 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 LSR85-1.75 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

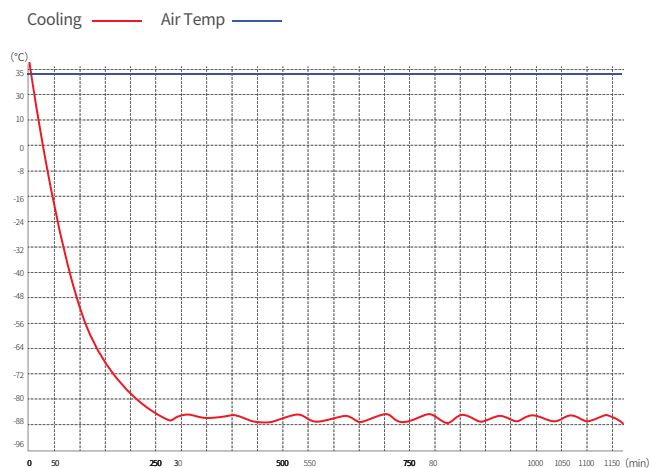
- Audible & visual alarm system includes: high/low temperature, sensor failure, door open, and power failure alarms
- The turn-on delay and stopping interval protection can ensure reliable operation
- The keyboard lock and password protection can prevent any adjustment of operational parameters without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



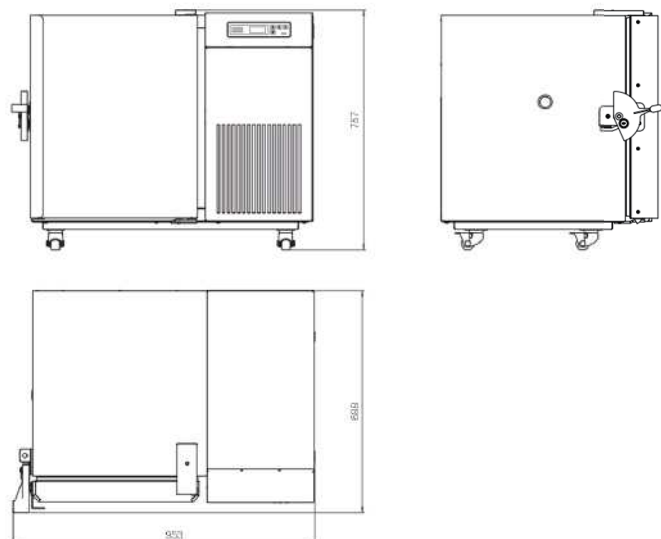
#### Human-oriented

- 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)	1.75
Internal Size(WxDxH) inches	12x16.7x17
External Size(WxDxH) inches	37.5x27x29.8
Package Size(WxDxH) inches	43.7x32.8x36.6
NW/GW(Lbs)	230/245

## Performance

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

## Refrigeration

Compressor	Single
Cooling Method	Direct cooling
Defrost Mode	Manual
Refrigerant	Mixture gas
Insulation Thickness(mm)	110

## 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 25 mm
Casters	4
Data Logging/Interval/Recording	USB/Record every 10 minute / 2 years
Backup Battery	Yes

## Alarm

Temperature	High/Low temperature, High ambient
Electrical	temperature, Power failure, Low battery
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

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