

Tenutō Ultra

86L458 & 86L458S

The Lab-Guard ULT freezer can be used for the storage and protection of temperature sensitive samples, vaccines, longitudinal study samples, important medical research samples, valuable pharmaceutical products, and clinical trial samples.

86L458 & 86L458S
Net capacity 458L
Freezer -40 to -86 °C



Safer By Design

- » Slim cabinet design for better access
- » World leading energy saving
- » Fast cabinet pull down
- » Superior temperature recover time
- » VIP PLUS design

Safe and Reliable Samples Storage

- » Superior temperature uniformity
- » Imported world-famous components

Multi-Level Alarms

- » High temperature
- » Low temperature
- » Sensor error
- » Power failure
- » High ambient alarm
- » Door open alarm

Double Door Design

Four independent/detachable inner door allows better samples management. And each inner door has gasket which will reduce heat exchange rate and retaining the inner temperature better.

Optimized Refrigeration System

High efficiency cooling fans and compressors, combined with hydrocarbon refrigerants, ensure energy savings and long-term sample security.

Multi-Layer Sealing Structure

Multi-layers gaskets provide a tight seal between the inner doors and outer door, reducing heat exchange rate and retaining the inner temperature better when there is power failure.

VIP PLUS Design

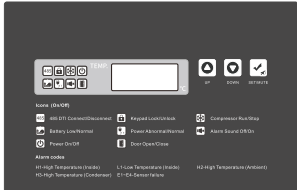
Provides up to 30% more storage capacity than a conventionally insulated freezer, without increasing the footprint. A glass fibre core provides advanced thermal properties.

USB Port

Enables users to download historical temperature data for compliance/auditing purposes.

LED Display

LED display for easy set, and ambient temperatures, ensuring user-friendly operation with minimal errors.



Lever Handle Design

Ingenious handle design helps you to open and close door easier. Lockable handle safeguards your precious samples. Padlock can also be added for extra sample safety.

Heated Pressure Equalization Port

It allows users to re-open the main door quickly when

Narrow Door Design

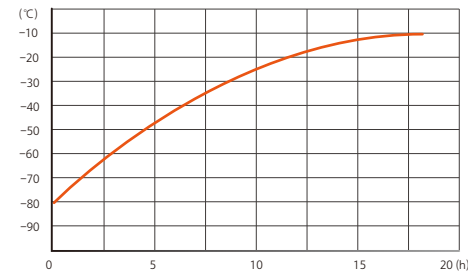
The freezer can pass through an 750mm wide door when the door is open.

Mechanical Assisted Door Handles

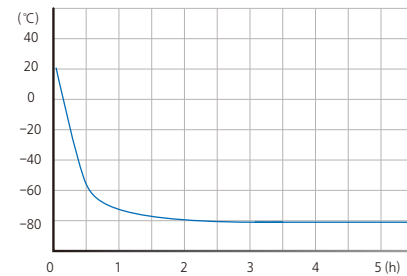
Mechanical assisted door handles make opening the door more convenient Lockable handle safeguards your precious samples. Padlock can also be added for extra sample safety.

Typical Performance Characteristics at 25°C Ambient

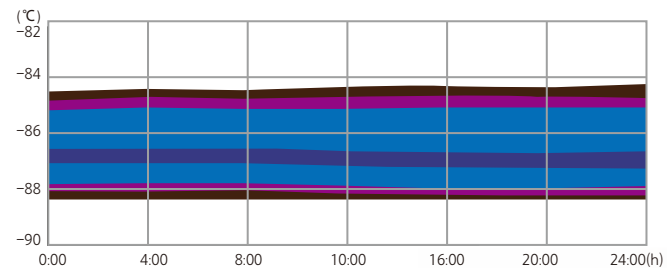
■ Temperature recover curve



■ Temperature cool down curve



■ Temperature uniformity



Tenutō Ultra 86L458 and 86L458S Specifications

Item	Model No.	86L458	86L458S
Technical Data	Compartment	Freezer	Freezer
	Cabinet Type	Upright	
	Climate Class	N	
	Cooling Type	Direct	
	Defrost	Manual	
	Refrigerant	Mixed refrigerant	
	Total Storage Volume (L)	458	
	2ml Cryo Tube Quantity	32000	
	External Material	High quality coated steel	
	Inner Material	Stainless steel	
	Power Supply	220-240V~/50HZ	
Control	Compartment	Freezer	Freezer
	Controller	Microprocessor	
	Display	LED	Touch screen
	Temperature Accuracy (°C)	0.1	
	Temperature Range	-40°C to -86°C	

Item	Model No.	86L458	86L458S
Dimensions	Compartment	Freezer	Freezer
	Product Dimensions WxDxH (mm)	885*855*1980	885*855*1980
	Interior Dimensions WxDxH (mm)	595*580*1310	595*580*1310
Functions	Compartment	Freezer	Freezer
	High Temperature Alarm	Y	
	Low Temperature Alarm	Y	
	Door Ajar	Y	
	Power Failure Alarm	Y	
	High Condenser Temperature Alarm	Y	
	High Ambient Temperature Alarm	Y	
	Low Battery	Y	
	Sensor Failure Alarm	Y	
	USB Interface	Y	
	Door Heating	Y	
	Porthole	Y	
	Universal Wheel	Y	
	Caster	Y	

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