Swisslog Healthcare Tenutō

Medical Fridges & Freezers for Critical Storage Applications

Reliable cold storage solutions designed for healthcare, laboratory, research, veterinary, and scientific environments requiring consistent temperature performance & dependable storage protection.





COLD STORAGE

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Tenutō™

Medical Refrigerators and Freezers

Ensuring the safety and efficacy of temperature-sensitive pharmaceuticals through innovative, reliable cold storage solutions designed specifically for healthcare environments. Tenutō ensures safe, compliant, and cost-effective cold chain storage for critical medications and vaccines.



cold chain

swisslog healthcare

Unwavering Precision in Cold Chain Technology

There are multiple models in each of the four makes shown below.

		Temperature Range	Store Capacity Range	Ideal For
Tenutō Cool		2°C to 8°C	42 L – 1366 L	Clinics, hospital wards, nursing stations, pharmacies
Tenutō Freeze		-10 °C to -25 °C or -20 °C to -40 °C	106 L – 508 L	Laboratories, vaccine storage, mixed-use environments
Tenutō Combo		**Fridge:** 2 °C to 8 °C **Freezer:** -10 °C to -25 °C or -20 °C to -40 °C	350 L – 506 L	Laboratories, vaccine storage, mixed-use environments
Tenutō Ultra		-86°C	108 L – 860 L	Laboratories: Pathology, Research & Transplant

Tenutō Advantages

- **Trusted Temperature Uniformity**
  Ensures consistent, optimal conditions with rapid recovery after door openings and exceptional temperature uniformity across all storage areas.
- **Advanced Energy Efficiency**
  Engineered to significantly reduce operational costs and contribute to sustainability goals with up to 47% energy savings.
- **Unparalleled Reliability**
  Built for continuous operation with redundant safety features and long-term durability exceeding 10 years of service life.
- **Enhanced User experience**
  Fully monitored system, designed for intuitive operation and streamlined daily tasks, improving workflow efficiency for pharmacy personnel.

Designed to Meet
Critical Cold Chain Demands

Our comprehensive range of medical-grade refrigeration solutions addresses the diverse needs of modern healthcare facilities.



Double 5L756 model is shown above. Browse the catalog for all model choices.

Tenutō Cool

Our medical refrigerators are available in numerous sizes and capacities, delivering flexibility to meet the unique demands of any healthcare setting. From compact unit's ideal for exam rooms and clinics with limited space and low medication volume, to full double-column systems built for high-capacity environments, each model ensures precise temperature control, unmatched reliability, and seamless integration into your workflow. From LBA foaming technology to electric heating and e-glass, Tenutō Cool has all the features your facility needs for trusted cold chain storage.

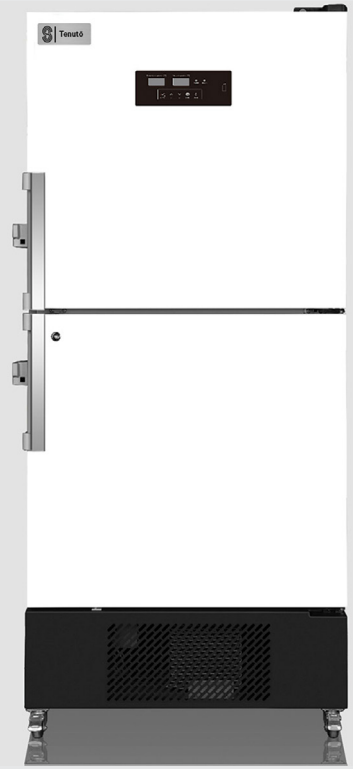
Temperature Range:

2° C to 8° C

Capacity Range:

42 L – 1366 L

Learn more online



Double 25L518 model is shown above. Browse the catalog for all model choices.

Tenutō Freeze

Safeguard critical samples with confidence. Our medical freezers are engineered for clinical environments, providing reliable, temperature-stable storage for sensitive materials such as vaccines and tissue samples. Designed to meet the rigorous demands of healthcare facilities, each unit ensures consistent performance and peace of mind for your staff and patients. Multiple features such as VIP+ insulation and multi-layer silicon door seal ensure the integrity of items with reliable temperature controls.

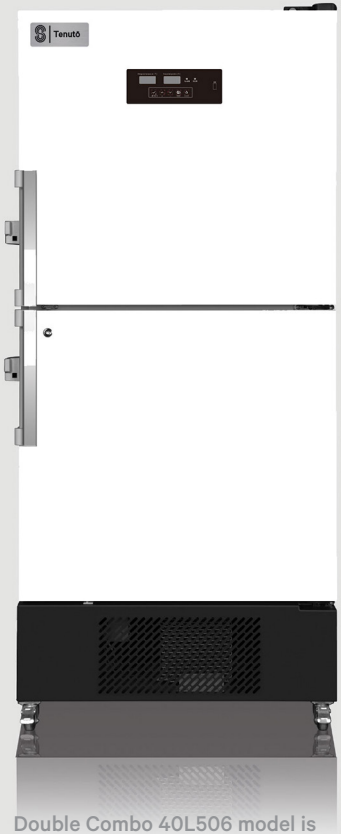
Temperature Range:

-25° C or -40° C

Capacity Range:

106 L – 508 L

Learn more online



Double Combo 40L506 model is shown above. Browse the catalog for all model choices.

Tenutō Combo

Maximize space without compromising performance. Tenutō Combo integrates refrigeration and freezer capabilities in a single, space-saving unit. Perfect for facilities seeking to make the most vertical space and manage low-to-medium medication volumes with versatile temperature ranges. Combining refrigeration and freezer capabilities with advanced features like microchannel compressor, top cooling system, and DC turbo fan proves Tenutō Combo is the all-in-one cold chain solution, with maximum capabilities.

Temperature Ranges:

Refrigerator: 2° C to 8° C

Freezer: -25° C to -10° C

Capacity Range:

350 L – 506 L

Learn more online



Ultra Single 86L838 model is shown above. Browse the catalog for all model choices.

Tenutō Ultra

ULT (Ultra Low Temperature) Freezers provide an ideal solution for the storage and protection of temperature-sensitive samples, vaccines, longitudinal study samples, medical research samples, pharmaceutical products, and clinical trial samples. Available in multiple size options to meet your facility's unique needs. Whether it's an undercounter model for tight spaces, a slim design engineered to fit through standard doorways, or a full-sized system packed with advanced features, our ULT Freezers deliver reliable ultra-low temperature performance without compromising accessibility or capacity.

Temperature Range:

-86° C to -40° C

Capacity Range:

108 L – 860 L

Learn more online

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or learn more at www.pharmasystems.com

Tenutō Features Overview

Cool











Specifications	21299	21300	21301	22314	22316	22318	22319	22310	22311
Technical Data									
Climate Class	N	N	N	N	N	N	N	N	N
Cabinet Type	Upright	Upright	Upright	Upright	Upright	Upright	Upright	Upright	Upright
Cooling Type/Defrost Mode	Forced Air Cooling/Auto	Forced Air Cooling/Auto	Forced Air Cooling/Auto	Forced Air Cooling/Auto	Forced Air Cooling/Auto	Forced Air Cooling/Auto	Forced Air Cooling/Auto	Forced Air Cooling/Auto	Forced Air Cooling/Auto
Compressor	GMCC	GMCC	GMCC	220-240V/50/60Hz: GMCC (Inverter) 115V/60Hz: DONPER (Inverter)	220-240V/50/60Hz: GMCC (Inverter) 115V/60Hz: DONPER (Inverter)	220-240V/50/60Hz: GMCC (Inverter) 115V/60Hz: DONPER (Inverter)	220-240V/50/60Hz: GMCC (Inverter) 115V/60Hz: DONPER (Inverter)	GMCC (Inverter)*2 (independent system)	GMCC (Inverter)*2 (independent system)
Refrigerant Gas	R600a	R600a	R600a	R600a	R600a	R600a	R600a	R600a	R600a
Noise Level (dB(A))	45	45	220-240V/50Hz: 52 115V/60Hz: 60 220-240V/60Hz: 52	220-240V/50/60Hz: 55 115V/60Hz: 60	55	58	60	35	35
Controller									
Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Display	LED	LED	LED	LED	LED	LED	LED	LED	Touch Screen
Performance									
Top Cooling Technology	N	N	Y	Y	Y	Y	Y	Y	Y
Temperature Range (°C)	2℃~8℃	2℃~8℃	2℃~8℃	2℃~8℃	2℃~8℃	2℃~8℃	2℃~8℃	2℃~8℃	2℃~8℃
Accuracy (°C)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Fluctuation (°C)	≤3	≤2	≤2	≤2	≤2	≤2	≤2	≤3	≤3
Uniformity (°C)	±1	±1	±1	±1	±1	±1	±1	±1	±1
Electrical Data									
Sensor Type	NTC	NTC	NTC	NTC	NTC	NTC	NTC	NTC	NTC
Power Supply (V/Hz)	220-240V/50Hz 115V/60Hz	220-240V/50Hz 115V/60Hz 220-240V/60Hz	220-240V/50Hz 115V/60Hz 220-240V/60Hz	220-240V/50/60Hz 115V/60Hz	220-240V/50/60Hz 115V/60Hz	220-240V/50/60Hz 115V/60Hz	220-240V/50/60Hz 115V/60Hz	220-240V/50/60Hz 115V/60Hz	220-240V/50/60Hz 115V/60Hz
Rated Power(W)	220-240V/50Hz: 100 115V/60Hz: 150	220-240V/50Hz: 100 115V/60Hz: 160 220-240V/60Hz: 120	190	260	360	320	380	750	750
Electrical Current (A)	220-240V/50Hz: 0.75 115V/60Hz: 1.5	220-240V/50Hz: 1 115V/60Hz: 2 220-240V/60Hz: 1	220-240V/50Hz: 1.5 115V/60Hz: 2.5 220-240V/60Hz: 1.	220-240V/50/60Hz: 1.7 115V/60Hz: 3	220-240V/50/60Hz: 2.2 115V/60Hz: 4	220-240V/50/60Hz: 2 115V/60Hz: 3.6	220-240V/50/60Hz: 2.4 115V/60Hz: 4	4.7	4.7
Energy Consumption (kWh/24h)	0.65	220-240V/50Hz: 0.78 115V/60Hz: 1.2 220-240V/60Hz: 1.2	2.5	2	2	3	4	5.9	5.9
Dimensions									
Capacity (L/Cu.Ft)	42 L / 1.48 Cu Ft	126 L / 4.45 Cu Ft	316 L / 11.16 Cu Ft	416 L / 14.69 Cu Ft	606 L / 21.4 Cu Ft	756 L / 26.7 Cu Ft	1006 L / 35.53 Cu Ft	1366 L / 48.24 Cu Ft	1366 L / 48.24 Cu Ft
Net/Gross Weight	23/25	43/48	72/81	88/97	116/138	140/161	160/184	227/271	227/271
Interior Dimension (W × D × H)	380*300*410 mm (14.96×11.81×16.14 in)	505*467*620 mm (19.88×18.39×24.41 in)	500*464*1343 mm (19.69×18.27×52.87 in)	595*514*1343 mm (23.43×20.24×52.87 in)	660*590*1560 mm (25.98×23.23×61.42 in)	880*634*1354 mm (34.65×24.96×53.31 in)	1130*634*1354 mm (44.49×24.96×53.31 in)	1410*660*1540 mm (55.51×25.98×60.63 in)	1410*660*1540 mm (55.51×25.98×60.63 in)
Exterior Dimension (W × D × H)	450*459*569.5 mm (17.72×18.07×22.42 in)	595*615*810 mm (23.43×24.21×31.89 in)	595*603*1920 mm (23.43×23.74×75.59 in)	690*653*1920 mm (27.17×25.71×75.59 in)	760*825*1925 mm (29.92×32.48×75.79 in)	970*808*1920 mm (38.19×31.81×75.59 in)	1220*808*1920 mm (48.03×31.81×75.59 in)	1500*895*1925 mm (59.06×35.24×75.79 in)	1500*895*1925 mm (59.06×35.24×75.79 in)
Packing Dimension (W × D × H)	515*515*605 mm (20.28×20.28×23.82 in)	665*675*890 mm (26.18×26.57×35.04 in)	660*665*2025 mm (25.98×26.18×79.72 in)	755*715*2025 mm (29.72×28.15×79.72 in)	830*835*2085 mm (32.68×32.87×82.09 in)	1050*835*2085 mm (41.34×32.87×82.09 in)	1300*835*2085 mm (51.18×32.87×82.09 in)	1570*885*2080 mm (61.81×34.84×81.89 in)	1570*885*2080 mm (61.81×34.84×81.89 in)
Material									
Out Door	LOW-E Glass Door	LOW-E Glass Door	Electrical Heating Glass Door	Electrical Heating Glass Door	Electrical Heating Glass Door	Electrical Heating Glass Door	Electrical Heating Glass Door	Electrical Heating Glass Door	Electrical Heating Glass Door
Interior	HIPS(Polystyrene)	PCM (Pre-coated Steel)	HIPS(Polystyrene)	HIPS(Polystyrene)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	SUS 304	SUS 304
Exterior	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)
Shelves Material	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic
Functions									
High/Low Temperature Alarm	✓	✓	✓	✓	✓	✓	✓	✓	✓
Power Failure Alarm	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sensor Error Alarm	✓	✓	✓	✓	✓	✓	✓	✓	✓
Low Battery Alarm	✓	✖	✓	✓	✓	✓	✓	✓	✓
High Ambient Temperature Alarm	✓	✓	✓	✓	✓	✓	✓	✓	✓
Door Ajar Alarm	✓	✓	✓	✓	✓	✓	✓	✓	✓
Communication failure alarm	✓	✖	✓	✓	✓	✓	✓	✓	✓
Recorder fault alarm	✓	✖	✓	✓	✓	✓	✓	✓	✓
Recording is not started alarm	✓	✖	✓	✓	✓	✓	✓	✓	✓
Max and min temperature check	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dual Display(temperature & humidity)	✖	✖	✓	✓	✓	✓	✓	✓	✓
Accessories									
Inner Light	LED Light	LED Light	LED Light	LED Light	LED Light	LED Light	LED Light	LED Light	LED Light
Caster	/	/	4	4	4	4	4	5	5
Leveling Feet	4	4	/	2	2	2	2	2	2
Door Lock	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Shelves/Drawers	1/1	3/-	5/-	5/-	6/-	10/-	10/-	12/-	12/-
Porthole (Qty/Diameter mm)	1/25mm (0.98 in) (right side)	1/25mm (0.98 in) (right side)	1/25mm (0.98 in) (right side)	1/25mm (0.98 in) (right side)	1/25mm (0.98 in) (right side)	1/25mm (0.98 in) (right side)	1/25mm (right side)	2/25mm (right side)	2/25mm (right side)
USB Interface	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Remote Alarm Contact	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Printer	N	N	Optional	Optional	Optional	Optional	Optional	Optional	Optional
RS 485 Port	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Power Failure Backup System (alarm)	16h	20h	16h	16h	16h	16h	16h	40h	40h
Others									
Certifications	CE, UL, NSF, Energy Star	CE, UL, NSF, Energy Star	CE, UL, NSF, Energy Star	CE, UL, NSF, Energy Star	CE, UL, NSF, Energy Star	CE, UL (Pending NSF and ES)	CE, UL, NSF, Energy Star	CE, UL	CE, UL, NSF, Energy Star

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For more information please contact our team at info@pharmasystems.com
or learn more at **www.pharmasystems.com**

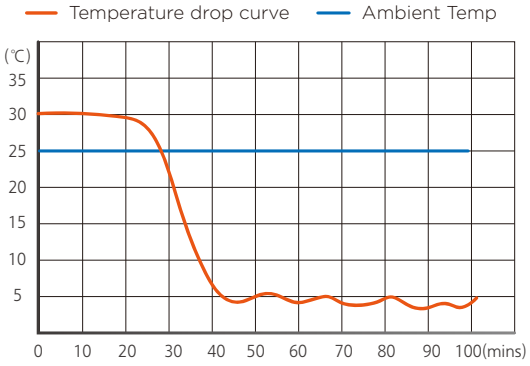
Tenutō Cool
5L42

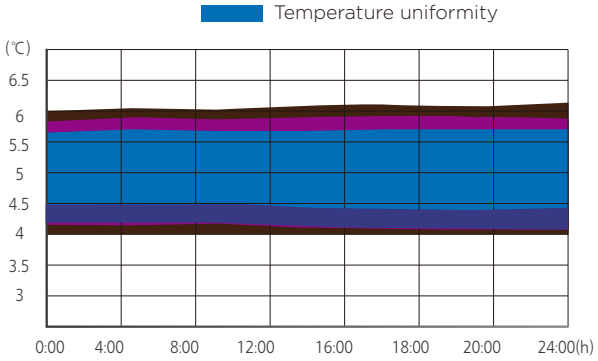
This countertop pharmacy refrigerator is suitable to store vaccines, medicines and laboratory products at 2°C to 8°C temperature range in pharmacies, pharmaceutical factories, hospitals, CDC, clinics, laboratories.



5L42
Net capacity 42L
Refrigerator 2°C to 8°C

Typical Performance Characteristics at 25°C Ambient





Humanized Design

- Low-E glass door, effectively preventing condensation
- Multi-layer shelves design, removable and with label card
- Adjustable LED light

specs

Safety & Temperature Stability

- Microcomputer control, temperature accuracy 0.1°C
- Digital display, adjustable temperature ranges 2°C to 8°C; temperature variation ≤2°C
- USB port, temperature data traceable
- Perfect audible and visual alarm systems: High and low temperature alarm, power failure, sensor failure alarm, door open alarm etc. The alarm temperature can be set as required
- Built-in battery, continuously showing the real-time chamber temperature after power off
- Safety lock, door self-lock
- Wide voltage range design for unstable power supply areas.

Refrigeration System

- Internationally famous compressor, energy saving, rapid cooling
- High efficiency air flow design
- DC Turbo Fan, High efficiency and energy saving, low noise and long service life
- LBA Forming Technology, better insulation, more energy-saving, higher space utilization rate
- Micro-channel condenser, high efficiency compressor overheating protection
- Patented D+ heat exchange technology, high efficiency, and energy saving
- CFC free, environmentally friendly

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Tenutō Cool 5L42 Specifications

Item	Model No.	5L42
Dimensions	Compartment	Refrigerator
	Load Capacity (40HQ)	384
	Fridge Storage Volume (L)	42
	Product Dimensions WxDxH (mm)	480*450*550
	Interior Dimensions WxDxH (mm)	400*345*380
	Net/Gross Weight	25/27
Technical Data	Compartment	Refrigerator
	Cooling Type	Forced air cooling
	Defrost Type	No frost
	Climate Class	N
	Refrigerant/Amount (g)	R600a/18g
	Compressor Type	Fixed frequency
	Sensor Quantity	2
Product Performance	Compartment	Refrigerator
	Temperature Range	2°C to 8°C
	Temperature Uniformity/°C	4
	Temperature Volatility/°C	3
	Temperature Accuracy	0.1
Control	Compartment	Refrigerator
	Controller	Microprocessor
	Display	LED

Item	Model No.	5L42
Electrical Data	Compartment	Refrigerator
	Rated Current (A)	0.75
	Rated Power (W)	65
Alarms	Compartment	Refrigerator
	Power Failure Alarm	Y
	Sensor Failure Alarm	Y
	Environment Temperature Alarm	Y
	Door Ajar Alarm	Y
	High Temperature Alarm	Y
	Low Temperature Alarm	Y
	Remote Alarm	Optional
Accessories	Compartment	Refrigerator
	Shelves/Drawers Quantity	1/1
	Anti-Condensation Door	LOW-E glass
	Self-Lock	N
	Label Card Holder	Optional
	Cable Port	N
	Castors/type	N
	USB	Y
	RS-485 Port	N
	Printer	Optional
	Backup Battery	Y
	Backup Battery Endurance	24-hour

Tenutō is a trademark registered in the US Patent and Trademark Office. Product information is provided by the manufacturer and is subject to change due to updates, regional variations, or differences in manufacturing processes. Swisslog Healthcare is not responsible for any discrepancies or variations in product details. ©2025 Swisslog Healthcare NAM EN 102025 TRF-201

Tenutō Cool
5L126

This under counter pharmacy refrigerator is suitable to store vaccines, medicines, and laboratory products at 2°C to 8°C temperature range. Application could be found at pharmacies, pharmaceutical factories, hospitals, CDC, clinics, laboratories. Leading technologies for Safer storage and Higher temperature stability.

5L126
Net capacity 126L
Refrigerator 2°C to 8°C



Safe Storage

- Microcomputer control
- Temperature accuracy 0.1°C
- Temperature Uniformity ±1°C
- Audible and visual alarm systems
- Remote alarm contact
- CFC free, environment friendly
- High quality coated steel chamber

Reliable & Stable Performance

- International famous compressor
- Built-in Air duct
- DC turbo Fan
- Patented D+ heat exchange technology
- LBA forming technology

specs

User Friendly, Humanized Design

- LED light
- Safety lock
- Door self-lock
- Grip handle
- Reversible door
- Adjustable shelves
- Label holder
- Porthole
- Wide voltage range

LBA Forming Technology

- The world's leading fourth generation foaming agent.
- More uniform density, Better insulation, more energy-saving.
- More reasonable foaming layer design, larger interior storage space.

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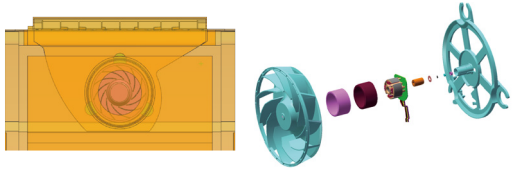
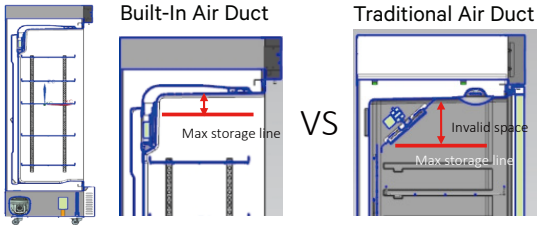
DC Turbo Fan

- Decrease noise level by 8%.
- Integrated DC Turbo Fan works with smaller vibration and higher efficiency.
- Safer for daily use.
- No strong electric component in chamber, safer and more reliable.



Built-In Air Duct

- Increase the effective interior space by 10%.
- Less interior space occupancy.
- Built-in air duct, ensure temperature in the top of chamber is cool enough for storage.

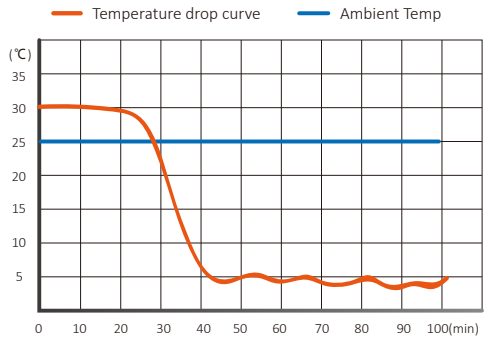


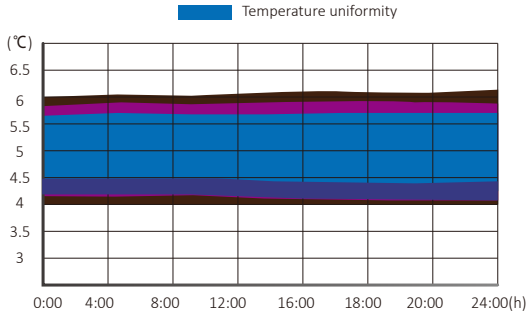
LED Display

Display real-time temperature.



Typical Performance Characteristics at 25°C Ambient





specs

Tenutō Cool 5L126 Specifications

Item	Model No.	5L126
Dimensions	Compartment	Refrigerator
	Load Capacity (40HQ)	153
	Fridge Storage Volume (L)	126
	Product Dimensions WxDxH (mm)	595*615*810
	Interior Dimensions WxDxH (mm)	505*467*620
	Net/Gross Weight	43/48
Technical Data	Compartment	Refrigerator
	Cooling Type	Forced air cooling
	Defrost Type	No frost
	Climate Class	N
	Refrigerant/Amount (g)	R600a/26g
	Compressor Type	Fixed frequency
	Sensor Quantity	NTC/3
Product Performance	Compartment	Refrigerator
	Temperature Range	2°C to 8°C
	Temperature Uniformity/°C	±1°C
	Temperature Volatility/°C	2
	Temperature Accuracy	0.1
Control	Compartment	Refrigerator
	Controller	Microprocessor
	Display	LCD

Item	Model No.	5L126
Alarms	Compartment	Refrigerator
	Power Failure Alarm	Display
	Sensor Failure Alarm	Y
	Environment Temperature Alarm	N
	Door Ajar Alarm	Y
	High Temperature Alarm	Y
	Low Temperature Alarm	Y
	Remote Alarm	Y
Accessories	Compartment	Refrigerator
	Shelves Quantity	3
	Anti-Condensation Door	LOW-E glass
	Door Self-lock	Y
	Reversible Door	Y
	Cable Port	1
	USB	Optional
	Remote Alarm	Y
	RS485 Port	N
	Printer	N
	Backup Battery	Y
	Backup Battery Endurance	24-hour

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Tenutō Cool
5L316

This pharmacy refrigetator is suitable to store vaccines, medicines and laboratory products at 2°C to 8°C temperature range. Application could be found at pharmacies, pharmaceutical factories, hospitals, CDC, clinics, laboratories. Leading technologies for safer storage and higher temperature stability.

5L316
Net capacity 316L
Refrigerator 2°C to 8°C



Safer Storage
Superior Temperature Uniformity and Precise Control

- Microcomputer temperature control
- Dual display, temperature and humidity
- Temperature accuracy 0.1°C
- Temperature variation ≤2°C
- Temperature uniformity ±1°C
- USB port, temperature record traceable
- Backup battery
- Audible and visual alarm systems

Advanced Technologies
Reliable and Stable Performance

- International famous compressor
- Top cooling system
- DC turbo fan
- Built-in air duct
- LBA forming technology
- Micro-channel condenser
- Patented D+ heat exchange technology, high efficiency and energy saving.

Humanized Design
Friendly for Daily Use

- Electric heating glass door
- Door self-close
- Adjustable shelves with l abel holder
- Porthole
- Adjustable LED light
- Wide voltage range design

specs

Top Cooling System

Strong cooling airflow from the top to the bottom, works as an air curtain to block the external hot air from entering the refrigerator when door is opening, so as to prevent the temperature in the cabinet from rising rapidly, also contributes better temperature uniformity performance.

- Improves temperature uniformity performance by 40%.
- Max interior temperature difference ±1°C
- Prevent temperature rising rapidly when door is opening
- Energy consumption 47% lower than similar sized normal pharmacy refrigerator.

DC Turbo Fan

- Decrease noise level by 8%
- Integrated DC Turbo Fan works with smaller vibration and higher efficiency
- Safer for daily use
- No strong electric component in chamber, safer and more reliable.

Built-In Air Duct

- Increase the effective interior space by 10%
- Less interior space occupancy
- Built-in air duct plus the top cooling design, ensure temperature in the top of chamber is cool enough for storage

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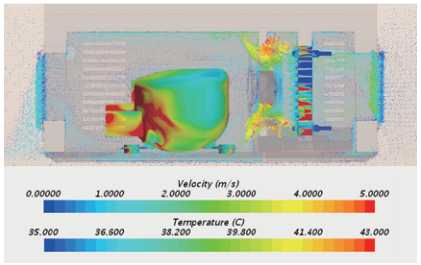
Dual Display

Display real-time temperature and humidity.

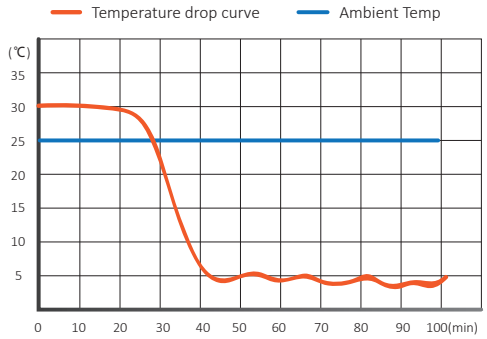


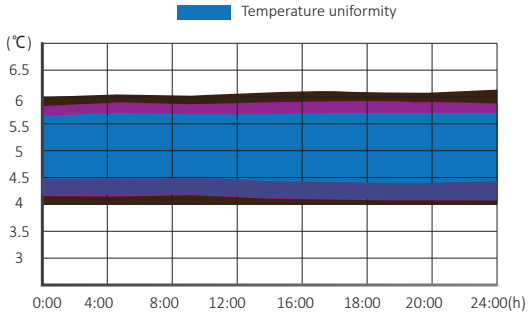
Micro-Channel Condenser

Compressor overheating protection, effectively improving the service life of the core part. Powerful heat dissipation for condenser, heat exchange capacity increase by more than 20% than common copper tube fin condenser of other suppliers.



Typical Performance Characteristics at 25°C Ambient





LBA Forming Technology

- The world's leading fourth generation foaming agent.
- More uniform density, better insulation, more energy-saving.
- More reasonable foaming layer design, larger interior storage space.

specs

Tenutō Cool 5L316 Specifications

Item	Model No.	5L316
Dimensions	Compartment	Refrigerator
	Load Capacity (40HQ)	71
	Fridge Storage Volume (L)	316
	Product Dimensions WxDxH (mm)	595*603*1920
	Interior Dimensions WxDxH (mm)	500*464*1343
	Net/Gross Weight	78/90
Technical Data	Compartment	Refrigerator
	Cooling Type	Forced air cooling
	Defrost Type	No frost
	Climate Class	N
	Refrigerant/Amount (g)	R600/36g
	Compressor Type	Fixed frequency
	Sensor Quantity	6
Product Performance	Compartment	Refrigerator
	Temperature Range	2°C to 8°C
	Temperature Uniformity/°C	2
	Temperature Volatility/°C	2
	Temperature Accuracy	0.1
Control	Compartment	Refrigerator
	Controller	Microprocessor
	Display	LED (Temperature and Humidity)

Item	Model No.	5L316
Electrical Data	Compartment	Refrigerator
	Rated Current(A)	1.5
	Rated Power(W)	190
Alarms	Compartment	Refrigerator
	Power Failure Alarm	Y
	Sensor Failure Alarm	Y
	Environment Temperature Alarm	Y
	Door Ajar Alarm	Y
	High Temperature Alarm	Y
	Low Temperature Alarm	Y
	Remote Alarm	Optional
Accessories	Compartment	Refrigerator
	Shelves/Drawers Quantity	5
	Anti-Condensation Door	Electrical heating
	Self-Lock	Y
	Label Card Holder	Y
	Cable Port	Y
	Castors/Type	4/Omni-directional
	USB	Y
	RS-485 Port	Y
	Printer	Optional
	Backup Battery	Y
	Backup Battery Endurance	24 hour

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Tenutō Cool
5L416, 5L756, & 5L1006

These pharmacy refrigetators are suitable to store vaccines, medicines and laboratory products at 2°C to 8°C temperature range. Application could be found at pharmacies, pharmaceutical factories, hospitals, CDC, clinics, laboratories. Leading technologies for safer storage and higher temperature stability.



5L416, 5L756, and 5L1006
Net capacity 416L, 756L, 1006L
Refrigerator 2°C to 8°C

Safer Storage
Superior Temperature Uniformity and Precise Control

- Microcomputer temperature control
- Dual display, temperature and humidity
- Temperature accuracy 0.1°C
- Temperature variation ≤2°C
- Temperature uniformity ±1.5°C
- USB port, temperature record traceable
- Backup battery
- Audible and visual alarm systems

Advanced Technologies
Reliable and Stable Performance

- International famous compressor
- Top cooling system
- DC turbo fan
- Built-in air duct
- LBA forming technology
- Micro-channel condenser
- Patented D+ heat exchange technology, high efficiency and energy saving.

Humanized Design
Friendly for Daily Use

- Electric heating glass door
- Door self-close
- Adjustable shelves with label holder
- Porthole
- Adjustable LED light
- Wide voltage range design

specs

Top Cooling System

Strong cooling airflow from the top to the bottom, works as an air curtain to block the external hot air from entering the refrigerator when door is opening, so as to prevent the temperature in the cabinet from rising rapidly, also contributes better temperature uniformity performance.

- Improves temperature uniformity performance by 40%.
- Max interior temperature difference ±1°C
- Prevent temperature rising rapidly when door is opening
- Energy consumption 47% lower than similar sized normal pharmacy refrigerator.

DC Turbo Fan

- Decrease noise level by 8%
- Integrated DC Turbo Fan works with smaller vibration and higher efficiency.
- Safer for daily use
- No strong electric component in chamber, safer and more reliable.

Built-In Air Duct

- Increase the effective interior space by 10%
- Less interior space occupancy
- Built-in air duct plus the top cooling design, ensure temperature in the top of chamber is cool enough for storage.

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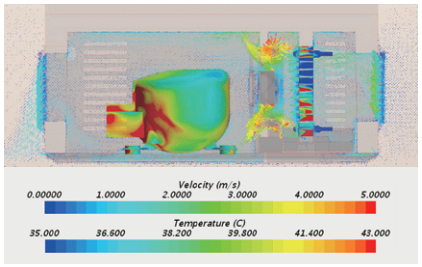
Dual Display

Display real-time temperature and humidity.



Micro-Channel Condenser

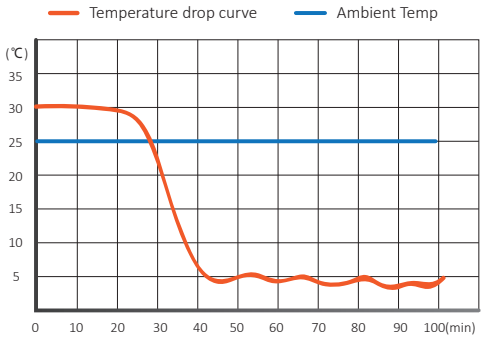
Compressor overheating protection, effectively improving the service life of the core part. Powerful heat dissipation for condenser, heat exchange capacity increase by more than 20% than common copper tube fin condenser of other suppliers.

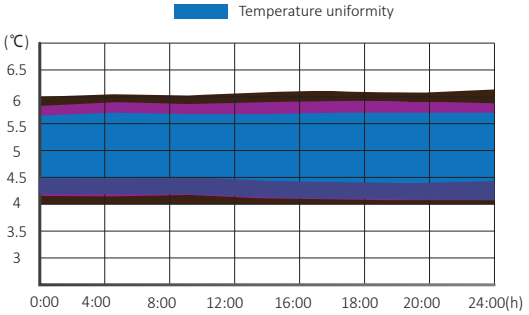


Inverter Compressor

- Improve cooling performance.
- Reduce energy consumption by 15%.
- Decrease noise level.
- 20% higher quick-cooling ability.
- Interior temperature variation within 2℃.

Typical Performance Characteristics at 25°C Ambient





LBA Forming Technology

- The world's leading fourth generation foaming agent.
- More uniform density, better insulation, more energy-saving.
- More reasonable foaming layer design, larger interior storage space.

specs

Tenutō Cool 5L416, 5L756, and 5L1006 Specifications

Item	Model No.	5L416	5L756	5L1006
Dimensions	Compartment	Refrigerator	Refrigerator	Refrigerator
	Load Capacity (40HQ)	48	28	23
	Fridge Storage Volume (L)	416	756	1006
	Product Dimensions WxDxH (mm)	690*653*1920	970*808*1920	1220*808*1920
	Interior Dimensions WxDxH (mm)	595*514*1343	880*634*1354	1130*634*1354
	Net/Gross Weight	88/97	140/161	160/84
Technical Data	Compartment	Refrigerator	Refrigerator	Refrigerator
	Cooling Type	Forced air cooling		
	Defrost Type	No frost		
	Climate Class	N		
	Refrigerant/Amount (g)	R600/36g	R600a/48g	R600a/60g
	Compressor Type	Inverter		
	Sensor Quantity	6		
Product Performance	Compartment	Refrigerator	Refrigerator	Refrigerator
	Temperature Range	2°C to 8°C		
	Temperature Uniformity/°C	2	3	
	Temperature Volatility/°C	2		
	Temperature Accuracy	0.1		
Control	Compartment	Refrigerator	Refrigerator	Refrigerator
	Controller	Microprocessor		
	Display	LED (Temperature and Humidity)		

Item	Model No.	5L416	5L756	5L1006
Electrical Data	Compartment	Refrigerator	Refrigerator	Refrigerator
	Rated Current(A)	1.5	1.8	2.2
	Rated Power(W)	260	320	380
Alarms	Compartment	Refrigerator	Refrigerator	Refrigerator
	Power Failure Alarm	Y		
	Sensor Failure Alarm	Y		
	Environment Temperature Alarm	Y		
	Door Ajar Alarm	Y		
	High Temperature Alarm	Y		
	Low Temperature Alarm	Y		
	Remote Alarm	Optional		
Accessories	Compartment	Refrigerator	Refrigerator	Refrigerator
	Shelves/Drawers Quantity	5	10	
	Anti-Condensation Door	Electrical heating		
	Self-Lock	Y		
	Label Card Holder	Y		
	Cable Port	Y		
	Castors/Type	2/Omni-Directional 2/Fixed wheels	4/Omni-Directional	
	USB	Y		
	RS-485 Port	Optional		
	Printer	Optional		
	Backup Battery	Y		
	Backup Battery Endurance	24 hour		

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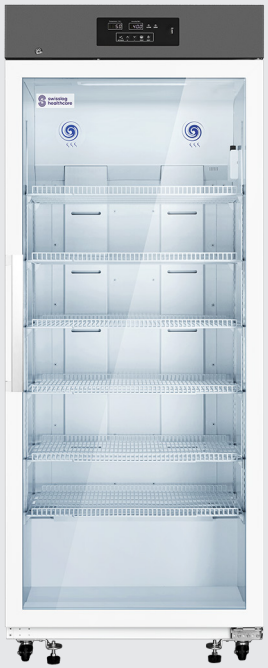
Tenutō Cool
5L606

This pharmacy refrigetator is suitable to store vaccines, medicines and laboratory products at 2°C to 8°C temperature range. Application could be found at pharmacies, pharmaceutical factories, hospitals, CDC, clinics, laboratories. Leading technologies for safer storage and higher temperature stability.

5L606
Net capacity 606L
Refrigerator 2°C to 8°C



Safer Storage
Superior Temperature Uniformity and Precise Control

- Microcomputer temperature control system
- Dual display, temperature and humidity
- Temperature accuracy 0.1°C
- Temperature variation ≤2°C
- Temperature uniformity ±1°C
- USB port, temperature record traceable
- Backup battery
- Audible and visual alarm systems

Advanced Technologies
Reliable and Stable Performance

- International famous inverter compressor
- Top cooling system
- DC turbo fan
- Built-in air duct
- LBA forming technology
- Micro-channel condenser

Humanized Design
Friendly for Daily Use

- Electric heating glass door
- Door self-close
- Adjustable shelves with label holder
- Porthole
- Wide voltage range design

specs

Top Cooling System

Strong cooling airflow from the top to the bottom, works as an air curtain to block the external hot air from entering the refrigerator when door is opening, so as to prevent the temperature in the cabinet from rising rapidly, also contributes better temperature uniformity performance.

- Improves temperature uniformity performance by 40%.
- Max interior temperature difference ±1°C
- Prevent temperature rising rapidly when door is opening
- Energy consumption 47% lower than similar sized normal pharmacy refrigerator.

DC Turbo Fan

- Decrease noise level by 8%
- Integrated DC Turbo Fan works with smaller vibration and higher efficiency
- Safer for daily use
- No strong electric component in chamber, safer and more reliable.

Built-In Air Duct

- Increase the effective interior space by 10%
- Less interior space occupancy
- Built-in air duct plus the top cooling design, ensure temperature in the top of chamber is cool enough for storage

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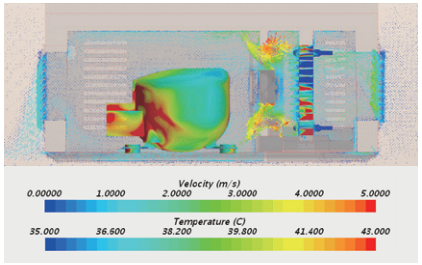
Dual Display

Display real-time temperature and humidity.



Micro-Channel Condenser

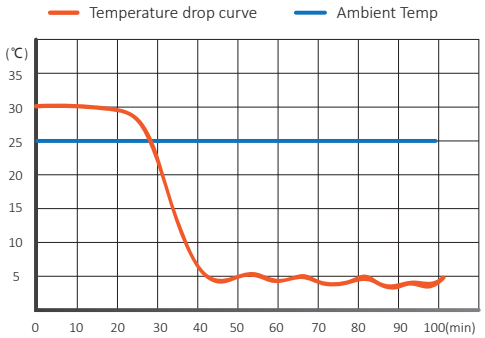
Compressor overheating protection, effectively improving the service life of the core part. Powerful heat dissipation for condenser, heat exchange capacity increase by more than 20% than common copper tube fin condenser of other suppliers.

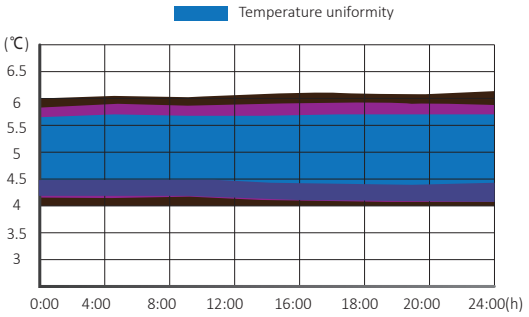


Inverter Compressor

- Improve cooling performance.
- Reduce energy consumption by 15%.
- Decrease noise level.
- 20% higher quick-cooling ability.
- Interior temperature variation within 2℃.

Typical Performance Characteristics at 25°C Ambient





LBA Forming Technology

- The world's leading fourth generation foaming agent.
- More uniform density, better insulation, more energy-saving.
- More reasonable foaming layer design, larger interior storage space.

specs

Tenutō Cool 5L606 Specifications

Item	Model No.	5L606
Dimensions	Compartment	Refrigerator
	Load Capacity (40HQ)	28
	Fridge Storage Volume (L)	606
	External Material	PCM
	Internal Material	PCM/Stainless steel
	Product Dimensions WxDxH (mm)	760*825*1925
	Interior Dimensions WxDxH (mm)	660*590*1560
	Net/Gross Weight	116/138 kg
Technical Data	Compartment	Refrigerator
	Cooling Type	Forced air cooling
	Defrost Type	Auto
	Climate Class	N
	Refrigerant/Amount (g)	R600a/52g
	Compressor Type	Inverter
	Sensor Quantity	5
Product Performance	Compartment	Refrigerator
	Temperature Range	2°C to 8°C
	Temperature Uniformity/°C	±2
	Temperature Volatility/°C	≤2
	Temperature Accuracy	0.1
Control	Compartment	Refrigerator
	Controller	Microprocessor
	Display	LED (Temperature and Humidity)

Item	Model No.	5L606
Electrical Data	Compartment	Refrigerator
	Rated Current(A)	2.2
	Rated Power(W)	360
Alarms	Compartment	Refrigerator
	Power Failure Alarm	Y
	Sensor Failure Alarm	Y
	Environment Temperature Alarm	Y
	Door Ajar Alarm	Y
	High Temperature Alarm	Y
	Low Temperature Alarm	Y
	Remote Alarm	Y
Accessories	Compartment	Refrigerator
	Shelves/Drawers Quantity	6
	Door	Glass Door/Electrical Heating
	Auto Close Door Funtion	Y
	Label Holder	Y
	Cable Port	Y
	Castors/Type	4/Omni-Directional 2/Fixed Wheels
	USB	Y
	RS-485 Port	N
	Printer	Optional
	Backup Battery	Y
	Backup Battery Endurance	15 hour

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Tenutō Cool
5L416, 5L756, & 5L1006

These pharmacy refrigetators are suitable to store vaccines, medicines and laboratory products at 2°C to 8°C temperature range. Application could be found at pharmacies, pharmaceutical factories, hospitals, CDC, clinics, laboratories. Leading technologies for safer storage and higher temperature stability.



5L416, 5L756, and 5L1006
Net capacity 416L, 756L, 1006L
Refrigerator 2°C to 8°C

Safer Storage
Superior Temperature Uniformity and Precise Control

- Microcomputer temperature control
- Dual display, temperature and humidity
- Temperature accuracy 0.1°C
- Temperature variation ≤2°C
- Temperature uniformity ±1.5°C
- USB port, temperature record traceable
- Backup battery
- Audible and visual alarm systems

Advanced Technologies
Reliable and Stable Performance

- International famous compressor
- Top cooling system
- DC turbo fan
- Built-in air duct
- LBA forming technology
- Micro-channel condenser
- Patented D+ heat exchange technology, high efficiency and energy saving.

Humanized Design
Friendly for Daily Use

- Electric heating glass door
- Door self-close
- Adjustable shelves with label holder
- Porthole
- Adjustable LED light
- Wide voltage range design

specs

Top Cooling System

Strong cooling airflow from the top to the bottom, works as an air curtain to block the external hot air from entering the refrigerator when door is opening, so as to prevent the temperature in the cabinet from rising rapidly, also contributes better temperature uniformity performance.

- Improves temperature uniformity performance by 40%.
- Max interior temperature difference ±1°C
- Prevent temperature rising rapidly when door is opening
- Energy consumption 47% lower than similar sized normal pharmacy refrigerator.

DC Turbo Fan

- Decrease noise level by 8%
- Integrated DC Turbo Fan works with smaller vibration and higher efficiency.
- Safer for daily use
- No strong electric component in chamber, safer and more reliable.

Built-In Air Duct

- Increase the effective interior space by 10%
- Less interior space occupancy
- Built-in air duct plus the top cooling design, ensure temperature in the top of chamber is cool enough for storage.

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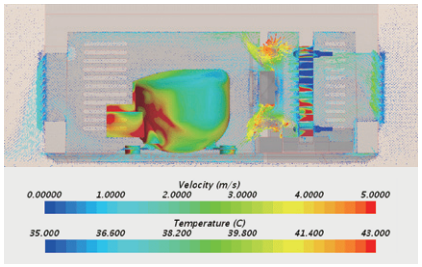
Dual Display

Display real-time temperature and humidity.



Micro-Channel Condenser

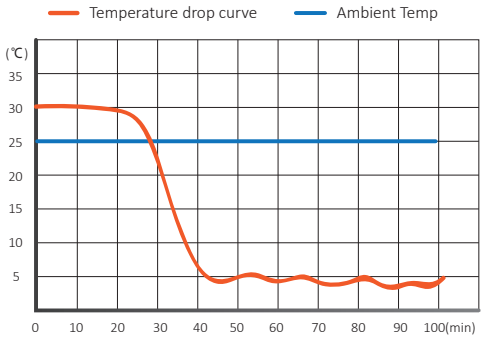
Compressor overheating protection, effectively improving the service life of the core part. Powerful heat dissipation for condenser, heat exchange capacity increase by more than 20% than common copper tube fin condenser of other suppliers.

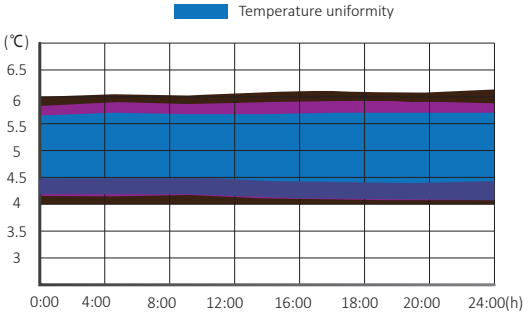


Inverter Compressor

- Improve cooling performance.
- Reduce energy consumption by 15%.
- Decrease noise level.
- 20% higher quick-cooling ability.
- Interior temperature variation within 2℃.

Typical Performance Characteristics at 25°C Ambient





LBA Forming Technology

- The world's leading fourth generation foaming agent.
- More uniform density, better insulation, more energy-saving.
- More reasonable foaming layer design, larger interior storage space.

specs

Tenutō Cool 5L416, 5L756, and 5L1006 Specifications

Item	Model No.	5L416	5L756	5L1006
Dimensions	Compartment	Refrigerator	Refrigerator	Refrigerator
	Load Capacity (40HQ)	48	28	23
	Fridge Storage Volume (L)	416	756	1006
	Product Dimensions WxDxH (mm)	690*653*1920	970*808*1920	1220*808*1920
	Interior Dimensions WxDxH (mm)	595*514*1343	880*634*1354	1130*634*1354
	Net/Gross Weight	88/97	140/161	160/84
Technical Data	Compartment	Refrigerator	Refrigerator	Refrigerator
	Cooling Type	Forced air cooling		
	Defrost Type	No frost		
	Climate Class	N		
	Refrigerant/Amount (g)	R600/36g	R600a/48g	R600a/60g
	Compressor Type	Inverter		
	Sensor Quantity	6		
Product Performance	Compartment	Refrigerator	Refrigerator	Refrigerator
	Temperature Range	2°C to 8°C		
	Temperature Uniformity/°C	2	3	
	Temperature Volatility/°C	2		
	Temperature Accuracy	0.1		
Control	Compartment	Refrigerator	Refrigerator	Refrigerator
	Controller	Microprocessor		
	Display	LED (Temperature and Humidity)		

Item	Model No.	5L416	5L756	5L1006
Electrical Data	Compartment	Refrigerator	Refrigerator	Refrigerator
	Rated Current(A)	1.5	1.8	2.2
	Rated Power(W)	260	320	380
Alarms	Compartment	Refrigerator	Refrigerator	Refrigerator
	Power Failure Alarm	Y		
	Sensor Failure Alarm	Y		
	Environment Temperature Alarm	Y		
	Door Ajar Alarm	Y		
	High Temperature Alarm	Y		
	Low Temperature Alarm	Y		
	Remote Alarm	Optional		
Accessories	Compartment	Refrigerator	Refrigerator	Refrigerator
	Shelves/Drawers Quantity	5	10	
	Anti-Condensation Door	Electrical heating		
	Self-Lock	Y		
	Label Card Holder	Y		
	Cable Port	Y		
	Castors/Type	2/Omni-Directional 2/Fixed wheels	4/Omni-Directional	
	USB	Y		
	RS-485 Port	Optional		
	Printer	Optional		
	Backup Battery	Y		
	Backup Battery Endurance	24 hour		

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Tenutō Features Overview

Freeze








Specifications	22329	22330	22331	22332	22333	22320
Technical Data						
Working Conditions	+10℃-+32℃	+10℃-+32℃	+10℃-+32℃	+10℃-+32℃	+10℃-+32℃	+10℃-+32℃
Cabinet Type	Upright	Upright	Upright	Upright	Upright	Upright
Cooling Type/Defrost Mode	Direct Cooling/Manual	Direct Cooling/Manual	Direct Cooling/Manual	Direct Cooling/Manual	Direct Cooling/Manual	Direct Cooling/Manual
Compressor	GMCC	GMCC	GMCC	GMCC	GMCC*Fixed Frequency*2	GMCC*Fixed Frequency*2
Refrigerant Gas	220-240V/50Hz: R600a 115V/60Hz: R290 220-240V/60Hz: R600a	R290	R290	R290	R290	R290
Noise Level (dB(A))	220-240V/50Hz: 43 115V/60Hz: 50 220-240V/60Hz: 40	220-240V/50Hz: 51 115V/60Hz: 50 220-240V/60Hz: 51	220-240V/50Hz: 46 115V/60Hz: 60 220-240V/60Hz: 48	220-240V/50Hz: 52 115V/60Hz: 60 220-240V/60Hz: 48	220-240V/50Hz: 58 115V/60Hz: 65 220-240V/60Hz: 54	220-240V/50Hz: 58 115V/60Hz: 65 220-240V/60Hz: 54
Controller						
Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Display	LCD	LCD	LCD	LCD	LED	LED
Performance						
Temperature Range (°C)	-10℃~-25℃	-20℃~-40℃	-10℃~-25℃	-20℃~-40℃	-10℃~-25℃	-20℃~-40℃
Accuracy (°C)	0.1	0.1	0.1	0.1	0.1	0.1
Cooling Performance (°C)	-25℃	-40℃	-25℃	-40℃	-25℃	-40℃
Electrical Data						
Power Supply (V/Hz)	220-240V/50Hz 115V/60Hz 220-240V/60Hz	220-240V/50Hz 115V/60Hz 220-240V/60Hz	220-240V/50Hz 115V/60Hz 220-240V/60Hz	220-240V/50Hz 115V/60Hz 220-240V/60Hz	220-240V/50Hz 115V/60Hz 220-240V/60Hz	220-240V/50Hz 115V/60Hz 220-240V/60Hz
Rated Power (W)	220-240V/50Hz: 115 115V/60Hz: 220 220-240V/60Hz: 115	220-240V/50Hz: 230 115V/60Hz: 220 220-240V/60Hz: 230	220-240V/50Hz: 210 115V/60Hz: 280 220-240V/60Hz: 260	220-240V/50Hz: 295 115V/60Hz: 280 220-240V/60Hz: 260	450	450
Electrical Current (A)	220-240V/50Hz: 0.7 115V/60Hz: 2.5 220-240V/60Hz: 0.7	220-240V/50Hz: 2.2 115V/60Hz: 2.5 220-240V/60Hz: 2.2	220-240V/50Hz: 1.18 115V/60Hz: 3 220-240V/60Hz: 1.3	220-240V/50Hz: 2.9 115V/60Hz: 3 220-240V/60Hz: 1.3	220-240V/50Hz: 5 115V/60Hz: 5.1 220-240V/60Hz: 4	220-240V/50Hz: 5 115V/60Hz: 5.1 220-240V/60Hz: 4
Energy Consumption (kWh/24h)	1	2	1.2	220-240V/50Hz: 2.7 115V/60Hz: 2.4 220-240V/60Hz: 2.4	220-240V/50Hz: 2.1 115V/60Hz: 2 220-240V/60Hz: 2	220-240V/50Hz: 4.2 115V/60Hz: 4.1 220-240V/60Hz: 4.1
Dimensions						
Capacity (L/Cu.Ft)	106 L / 3.74 Cu Ft	106 L / 3.74 Cu Ft	308 L / 10.88 Cu Ft	308 L / 10.88 Cu Ft	518 L / 18.29 Cu Ft	518 L / 18.29 Cu Ft
Net/Gross Weight	220-240V/50Hz: 39/44 115V/60Hz: 43/48 220-240V/60Hz: 40/50	43/48	220-240V/50Hz: 100/112 115V/60Hz: 102/114 220-240V/60Hz: 102/114	102/114	149/170	149/170
Interior Dimension (W × D × H)	455*460*595 mm (17.91×18.11×23.43 in)	455*460*595 mm (17.91×18.11×23.43 in)	540*450*1277 mm (21.26×17.72×50.28 in)	540*450*1277 mm (21.26×17.72×50.28 in)	top room: 680*620*650 bottom room: 680*620*650	top room: 680*620*650 bottom room: 680*620*650
Exterior Dimension (W × D × H)	600*610*815 mm (23.62×24.02×32.09 in)	600*610*815 mm (23.62×24.02×32.09 in)	700*690*1920 mm (27.56×27.17×75.59 in)	700*690*1920 mm (27.56×27.17×75.59 in)	866*811*1920 mm (34.09×31.93×75.59 in)	866*811*1920 mm (34.09×31.93×75.59 in)
Packing Dimension (W × D × H)	665*675*890 mm (26.18×26.57×35.04 in)	665*675*890 mm (26.18×26.57×35.04 in)	755*715*2035 mm (29.72×28.15×80.12 in)	755*715*2035 mm (29.72×28.15×80.12 in)	905*835*2040 mm (35.63×32.87×80.31 in)	905*835*2040 mm (35.63×32.87×80.31 in)
Cabinet Width (without handle and hinge)	595	595	690	690	830	830
Material						
Out Door	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel
Interior	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)
Exterior	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)
Functions						
High/Low Temperature Alarm	✓	✓	✓	✓	✓	✓
Power Failure Alarm	✓	✓	✓	✓	✓	✓
Hot Condenser Alarm	✗	✗	✗	✗	✗	✗
Sensor Error Alarm	✓	✓	✓	✓	✓	✓
Low Battery Alarm	✗	✗	✗	✗	✓	✓
High Ambient Temperature Alarm	✓	✓	✓	✓	✓	✓
Door Ajar Alarm	✓	✓	✓	✓	✓	✓
Communication failure alarm	✗	✗	✗	✗	✓	✓
Recorder fault alarm	✗	✗	✗	✗	✓	✓
Recording is not started alarm	✗	✗	✗	✗	✓	✓
Accessories						
Caster	/	/	4	4	4	4
Leveling Feet	4	4	2	2	2	2
Door Lock	Standard	Standard	Standard	Standard	Standard	Standard
Porthole (Qty/Diameter mm)	1/25mm (0.98 in) (right side)	1/25mm (0.98 in) (right side)	1/25mm (0.98 in) (right side)	1/25mm (0.98 in) (right side)	2/25mm (0.98 in) (right side)	2/25mm (0.98 in) (right side)
USB Interface	Standard	Standard	Standard	Standard	Standard	Standard
Remote Alarm Contact	Standard	Standard	Standard	Standard	Standard	Standard
Printer/Chart Recorder	N	N	N	N	Optional	Optional
RS 485 Port	Optional	Optional	Optional	Optional	Optional	Optional
Power Failure Backup System (alarm)	20h	20h	20h	20h	16h	16h
Others						
Certifications	CE, UL, Energy Star & NSF	CE, UL, Energy Star & NSF	CE, UL, Energy Star & NSF	CE, UL, Energy Star & NSF	CE, UL, Energy Star & NSF	CE, UL, Energy Star & NSF

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For more information please contact our team at info@pharmasystems.com
or learn more at **www.pharmasystems.com**

Tenutō Freeze
25L106 & 40L106

Biomedical freezers that can be used in hospitals, epidemic prevention stations, universities, scientific research institutes, and electronic chemical industry enterprise labs. It is strictly prohibited to store flammable and explosive dangerous goods, strong acids, strong alkalis, and other corrosive goods.

25L106 and 40L106
Net capacity 106L
Freezer (25L106) -10˚C to -25˚C
Freezer (40L106) -20˚C to -40˚C



Safer Storage
Superior Temperature Uniformity and Precise Control

- Microcomputer temperature control system
- Temperature accuracy 0.1°C
- USB port
- Temperature and alarm records traceable
- Multi-alarm functions

Humanized Design
Friendly for Daily Use

- Safety lock
- Multi layers gaskets
- Better temperature insulation
- Wide voltage range design
- Cable port
- Remote alarm contact
- Anti-condensation door

LBA Forming Technology

- The world's leading fourth generation foaming agent.
- More uniform density, better insulation, more energy-saving.
- More reasonable foaming layer design, larger interior storage space.

specs

LCD Temperature Control Systems

- Button-type control panel is easy to operate.
- Temperature and alarm settings can be adjusted on the panel.

Three-Dimensional Seal

The unique three-dimensional seal, through the double-layer door seal and the multi-layer airbag sealing design, can effectively reduce the leakage of cold air and achieve best thermal insulation performance.

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Tenutō Freeze 25L106 and 40L106 Specifications

Item	Model No.	25L106	40L106
Product Structure Data	Compartment	Freezer	Freezer
	Temperature Range	-10°C to -25°C	-20°C to -40°C
	Fridge Storage Volume (L)	106 L	
	External Material	High quality coated steel	
	Internal Material	High quality coated steel	
	Product Dimensions WxDxH (mm)	595*615*812	
	Interior Dimensions WxDxH (mm)	455*460*595	
	Net/Gross Weight	39/44	43/48
Technical Data	Compartment	Freezer	Freezer
	Cooling Type	Direct cooling	
	Defrost Type	Manual	
	Climate Class	N	
	Rated Voltage/Frequency (V/Hz)	220-240V~/50Hz	
	Rated Power (W)	115	230
	Rated Current (A)	0.7	1.5
	Refrigerant	R600a	R290
Control	Compartment	Freezer	Freezer
	Controller	Microprocessor	
	Display	LCD display	

Item	Model No.	25L106	40L106
Product Performance	Compartment	Freezer	Freezer
	Temperature Accuracy	0.1°C	
	Temperature Uniformity/°C	≤1.5°C	≤3°C
Alarms	Compartment	Freezer	Freezer
	Power Failure Alarm	Y	
	Sensor Failure Alarm	Y	
	Environment Temperature Alarm	Y	
	Door Ajar Alarm	Y	
	High Temperature Alarm	Y	
	Low Temperature Alarm	Y	
	Remote Alarm	Y	
Accessories	Compartment	Freezer	Freezer
	USB	Y	
	Anti-Condensation Door	Y	
	Backup Battery	Y	
	Handle	Grip (Reverse door)	
	Cable Port	1/25mm	
	Castors/Type	Feet	

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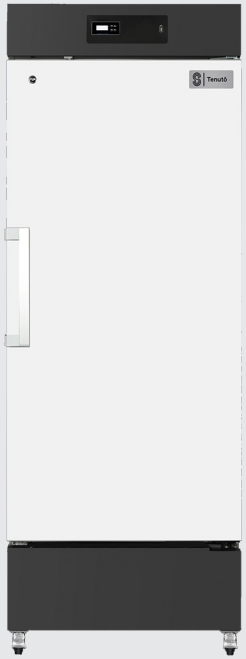
Tenutō Freezer
25L308

Biomedical freezer that can be used in hospitals, epidemic prevention stations, universities, scientific research institutes, and electronic chemical industry enterprise labs.
It is strictly prohibited to store flammable and explosive dangerous goods, strong acids, strong alkalis and other corrosive goods.

25L308
Net capacity 308L
Freezer -10 ˚C to -25 ˚C



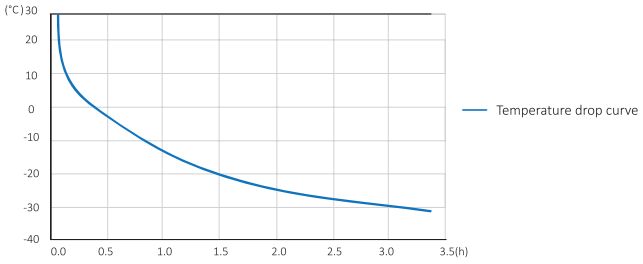
Safer Storage
Superior Temperature Uniformity and Precise control

- Microcomputer temperature control system
- Temperature accuracy 0.1°C
- Temperature uniformity ≤3.5°C
- USB port, temperature and alarm records traceable
- Muti-alarm functions.

Humanized Design
Friendly for Daily Use

- Fixed caster plus universal wheel
- Safety lock, easy open handles
- Anti-condensatioon door, cable port
- Wide voltage range design
- Remote alarm contact, dry contact

Typical Performance Characteristics at 25°C Ambient



specs

LCD Temperature Control Systems

- Button-type control panel is easy to operate.
- Temperature and alarm settings can be adjusted on the panel.

Three-Dimensional Seal

The unique three-dimensional seal, through the double-layer door seal and the multi-layer airbag sealing design, can effectively reduce the leakage of cold air and achieve best thermal insulation performance.

LBA Forming Technology

- The world's leading fourth generation foaming agent.
- More uniform density, better insulation, more energy-saving.
- More reasonable foaming layer design, larger interior storage space.

Micro-Channel Condenser

Powerful heat dissipation for condenser, heat exchange capacity increase by more than 20% than common copper tube fin condenser. Excellent compressor overheating protection, effectively improve the service life of core parts.

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Tenutō Freeze 25L308 Specifications

Item	Model No.	25L308
Product Structure Data	Compartment	Freezer
	Temperature Range	-10°C to -25°C
	Fridge Storage Volume (L)	308L
	External Material	High quality coated steel
	Internal Material	High quality coated steel
	Product Dimensions WxDxH (mm)	700*690*1920
	Interior Dimensions WxDxH (mm)	540*450*1277
	Loading Dimensions WxDxH (mm)	755*715*2035
	Net/Gross Weight	100/112
	Load Capacity (40HQ)	24/48
	Foaming Agent	Cyclopantane
	Packing	Carton
Technical Data	Compartment	Freezer
	Cooling Type	Direct cooling
	Defrost type	Manual
	Climate Class	N
	Noise dB(A)	45
	Rated Voltage/Frequency (V/Hz)	220V~/50Hz
	Rated Power (W)	210
	Rated Current (A)	1.18
	Refrigerant/Amount (g)	R290,110g
	Compressor Type	GMCC
	Sensor Type	NTC
Control	Compartment	Freezer
	Controller	Microprocessor
	Display	LCD display

Item	Model No.	25L308
Product Performance	Compartment	Freezer
	Temperature Accuracy	0.1°C
	Temperature Uniformity/°C	≤3.5°C
Alarms	Compartment	Freezer
	Sound Alarm	Y
	Light Alarm	Y
	Power Failure Alarm	Y
	Sensor Failure Alarm	Y
	Environment Temperature Alarm	Y
	Door Ajar Alarm	Y
	High Temperature Alarm	Y
	Low Temperature Alarm	Y
	Remote Alarm	Y
Accessories	Compartment	Freezer
	USB	Y
	Anti-Condensation Door	Y
	Lock	Y
	Backup Battery	Y
	Handle	Grip
	Shelves/Drawers Quantity	7 drawers
	Cable Port	1/25mm
	Castors/Type	4/front 2 wheels lockable

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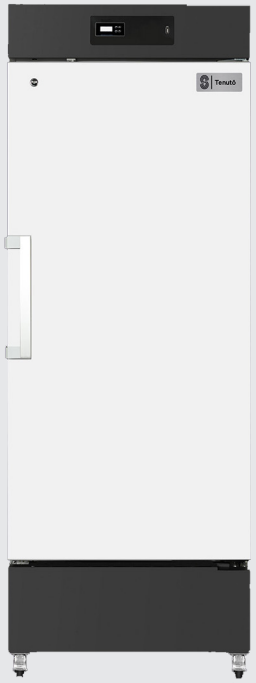
Tenutō Freezer
40L308

Biomedical freezer can be used in hospitals, epidemic prevention stations, universities, scientific research institutes, and electronic chemical industry enterprise labs. It is strictly prohibited to store flammable and explosive dangerous goods, strong acids, strong alkalis and other corrosive goods.

40L308
Net capacity 308L
Freezer -20˚C to -40˚C



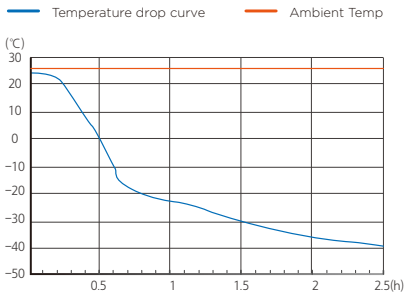
Safer Storage
Superior Temperature Uniformity and Precise control

- Microcomputer temperature control system
- Temperature accuracy 0.1°C
- Temperature uniformity ≤4°C
- USB port, temperature and alarm records traceable
- Muti-alarm functions.

Humanized Design
Friendly for Daily Use

- Fixed caster plus universal wheel
- Safety lock, easy open handles
- Anti-condensatioon door, cable port
- Wide voltage range design
- Remote alarm contact, dry contact

Typical Performance Characteristics at 25°C Ambient



specs

LCD Temperature Control Systems

- Button-type control panel is easy to operate.
- Temperature and alarm settings can be adjusted on the panel.

Three-Dimensional Seal

The unique three-dimensional seal, through the double-layer door seal and the multi-layer airbag sealing design, can effectively reduce the leakage of cold air and achieve best thermal insulation performance.

LBA Forming Technology

- The world's leading fourth generation foaming agent.
- More uniform density, better insulation, more energy-saving.
- More reasonable foaming layer design, larger interior storage space.

Micro-Channel Condenser

Powerful heat dissipation for condenser, heat exchange capacity increase by more than 20% than common copper tube fin condenser. Excellent compressor overheating protection, effectively improve the service life of core parts.

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Tenutō Freeze 40L308 Specifications

Item	Model No.	40L308
Product Structure Data	Compartment	Freezer
	Temperature Range	-20°C to -40°C
	Fridge Storage Volume (L)	308L
	External Material	High quality coated steel
	Internal Material	High quality coated steel
	Product Dimensions WxDxH (mm)	700*690*1920
	Interior Dimensions WxDxH (mm)	540*450*1277
	Loading Dimensions WxDxH (mm)	755*715*2035
	Net/Gross Weight	102/114
	Load Capacity (40HQ)	24/48
	Thickness of Foaming Layer (mm)	75
	Foaming Agent	Cyclopantane
	Packing	Carton
	Stacking Layers	1
Technical Data	Compartment	Freezer
	Cooling Type	Direct cooling
	Defrost type	Manual
	Climate Class	N
	Noise dB(A)	45
	Rated Voltage/Frequency (V/Hz)	220-240V~/50Hz
	Rated Power (W)	295
	Rated Current (A)	1.9
	Refrigerant/Amount (g)	R290,118g
Control	Compartment	Freezer
	Controller	Microprocessor
	Display	LCD display

Item	Model No.	40L308
Product Performance	Compartment	Freezer
	Temperature Accuracy	0.1°C
	Temperature Uniformity/°C	4°C
Alarms	Compartment	Freezer
	Sound Alarm	Y
	Light Alarm	Y
	Power Failure Alarm	Y
	Sensor Failure Alarm	Y
	Environment Temperature Alarm	Y
	Door Ajar Alarm	Y
	High Temperature Alarm	Y
	Low Temperature Alarm	Y
	Remote Alarm	Y
Accessories	Compartment	Freezer
	USB	Y
	Anti-Condensation Door	Y
	Lock	Y
	Backup Battery	Y
	Handle	Grip
	Shelves/Drawers Quantity	7 drawers
	Cable Port	Y
	Castors/Type	Y

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Tenutō Freezer
25L518

Biomedical freezer that can be used in hospitals, epidemic prevention stations, universities, scientific research institutes, and electronic chemical industry enterprise labs. It is strictly prohibited to store flammable and explosive dangerous goods, strong acids, strong alkalis and other corrosive goods.

25L518
Net capacity 518L
Freezer -10˚C to -25˚C



Safer Storage
Superior Temperature Uniformity and Precise control

- Microcomputer temperature control system
- Temperature accuracy 0.1°C
- Temperature uniformity ≤3°C
- USB port, temperature and alarm records traceable
- Muti-alarm functions

Humanized Design
Friendly for Daily Use

- Fixed caster plus universal wheel
- Safety lock
- Easy open handles
- Multi layers gaskets
- Better temperature insulation
- Wide voltage range design
- Cable port
- Remote alarm contact
- Anti-condensation door

Two Independent Cooling System

- The upper and lower chambers can be controlled independently
- Temperature range between: -10°C to -25°C
- LED control panel is easy to operate
- Temperature and alarm settings can be adjusted on the panel

specs

Three-Dimensional Seal

The unique three-dimensional seal, through the double-layer door seal and the multi-layer airbag sealing design, can effectively reduce the leakage of cold air and achieve best thermal insulation performance.

LBA Forming Technology

- The world's leading fourth generation foaming agent.
- More uniform density, better insulation, more energy-saving.
- More reasonable foaming layer design, larger interior storage space.

Micro-Channel Condenser

Powerful heat dissipation for condenser, heat exchange capacity increase by more than 20% than common copper tube fin condenser. Excellent compressor overheating protection, effectively improve the service life of core parts.

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Tenutō Freeze 25L518 Specifications

Item	Model No.	25L518
Product Structure Data	Compartment	Freezer
	Temperature Range	-10°C to -25°C
	Fridge Storage Volume (L)	518L
	External Material	High quality coated steel
	Internal Material	High quality coated steel
	Product Dimensions WxDxH (mm)	866*811*1920
	Interior Dimensions WxDxH (mm)	680*620*650
	Packing Dimensions WxDxH (mm)	905*835*2040
	Loading Dimensions WxDxH (mm)	905*835*2040
	Net/Gross Weight	142/164
	Load Capacity (40HQ)	14/28
	Thickness of Foaming Layer (mm)	75
	Foaming Agent	Cyclopantane
	Packing	Carton
	Stacking Layers	1
Technical Data	Compartment	Freezer
	Cooling Type	Direct cooling
	Defrost type	Manual
	Climate Class	N
	Rated Voltage/Frequency (V/Hz)	220-240V~/50Hz
	Rated Power (W)	450
	Rated Current (A)	3.8
	Refrigerant/Amount (g)	R290,70g*2
Control	Compartment	Freezer
	Controller	Microprocessor
	Display	LED display

Item	Model No.	25L518
Product Performance	Compartment	Freezer
	Temperature Accuracy	0.1°C
	Temperature Uniformity/°C	3°C
Alarms	Compartment	Freezer
	Sound Alarm	Y
	Light Alarm	Y
	Power Failure Alarm	Y
	Sensor Failure Alarm	Y
	Environment Temperature Alarm	Y
	Door Ajar Alarm	Y
	High Temperature Alarm	Y
	Low Temperature Alarm	Y
	Remote Alarm	Y
Accessories	Compartment	Freezer
	USB	Y
	Anti-Condensation Door	Y
	Lock	Y
	Backup Battery	24 hour
	Handle	Easy open handle
	Shelves/Drawers Quantity	12 drawers
	Cable Port	Y
	Castors/Type	Y

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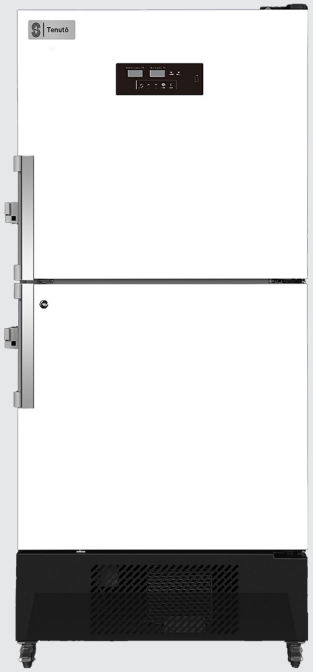
Tenutō Freeze
40L518

Biomedical freezer that can be used in hospitals, epidemic prevention stations, universities, scientific research institutes, and electronic chemical industry enterprise labs.
It is strictly prohibited to store flammable and explosive dangerous goods, strong acids, strong alkalis and other corrosive goods

40L518
Net capacity 518L
Freezer -20˚C to -45˚C



Safer Storage
Superior Temperature Uniformity and Precise control

- Microcomputer temperature control system
- Temperature accuracy 0.1°C
- Temperature uniformity ≤3°C
- USB port, temperature and alarm records traceable
- Muti-alarm functions

Humanized Design
Friendly for Daily Use

- Fixed caster plus universal wheel
- Safety lock
- Easy open handles
- Multi layers gaskets
- Better temperature insulation
- Wide voltage range design
- Cable port
- Remote alarm contact
- Anti-condensation door

Two Independent Cooling System

- The upper and lower chambers can be controlled independently
- Temperature range between: -20°C to -40°C
- LED control panel is easy to operate
- Temperature and alarm settings can be adjusted on the panel

specs

Three-Dimensional Seal

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LBA Forming Technology

- The world's leading fourth generation foaming agent.
- More uniform density, better insulation, more energy-saving.
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Micro-Channel Condenser

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Tenutō Freeze 40L518 Specifications

Item	Model No.	40L518
Product Structure Data	Compartment	Freezer
	Temperature Range	-20°C to -40°C
	Fridge Storage Volume (L)	518L
	External Material	High quality coated steel
	Internal Material	High quality coated steel
	Product Dimensions WxDxH (mm)	866*811*1920
	Interior Dimensions WxDxH (mm)	680*620*650
	Packing Dimensions WxDxH (mm)	905*835*2040
	Loading Dimensions WxDxH (mm)	905*835*2040
	Net/Gross Weight	142/164
	Load Capacity (40HQ)	14/28
	Thickness of Foaming Layer (mm)	75
	Foaming Agent	Cyclopantane
	Packing	Carton
	Stacking Layers	1
Technical Data	Compartment	Freezer
	Cooling Type	Direct cooling
	Defrost type	Manual
	Climate Class	N
	Noise dB(A)	58
	Rated Voltage/Frequency (V/Hz)	220-240V~/50HZ
	Rated Power (W)	450
	Rated Current (A)	3.8
	Refrigerant/Amount (g)	R290,70g*2

Item	Model No.	40L518
Control	Compartment	Freezer
	Controller	Microprocessor
	Display	LED display
Product Performance	Compartment	Freezer
	Temperature Accuracy	0.1°C
	Temperature Uniformity/°C	3°C
Alarms	Compartment	Freezer
	Sound Alarm	Y
	Light Alarm	Y
	Power Failure Alarm	Y
	Sensor Failure Alarm	Y
	Environment Temperature Alarm	Y
	Door Ajar Alarm	Y
	High Temperature Alarm	Y
	Low Temperature Alarm	Y
	Remote Alarm	Y
Accessories	Compartment	Freezer
	USB	Y
	Anti-Condensation Door	Y
	Lock	Y
	Backup Battery	24 hour
	Handle	Easy open handle
	Shelves/Drawers Quantity	12 drawers
	Cable Port	Y
	Castors/Type	Y

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Tenutō Features Overview

Combo






Specifications	21302	22312	22313	22328
Technical Data				
Working Conditions	+10℃-+32℃	+10℃-+32℃	+10℃-+32℃	+10℃-+32℃
Cabinet Type	Upright	Upright	Upright	Upright
Cooling Type	Top Room: Forced Air Cooling Bottom Room: Direct Cooling	Top Room: Forced Air Cooling Bottom Room: Direct Cooling	Top Room: Forced Air Cooling Bottom Room: Direct Cooling	Top Room: Forced Air Cooling Bottom Room: Direct Cooling
Defrost Mode	Top Room: Auto Bottom Room: Manual	Top Room: Auto Bottom Room: Manual	Top Room: Auto Bottom Room: Manual	Top Room: Auto Bottom Room: Manual
Compressor	GMCC/GMCC	GMCC/GMCC	GMCC/GMCC	GMCC/GMCC
Refrigerant Gas	Fridge: R600a Freezer: R600a	Fridge: R600a Freezer: R290	Fridg: R600a Freezer: R290	Fridge: R600a Freezer: R290
Controller				
Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Display	LED	LED	LED	LED
Performance				
Temperature Range (°C)	Fridge: 2℃~8℃ Freezer: -10℃~-25℃	Fridge: 2℃~8℃ Freezer: ~-40℃	Fridge: 2℃~8℃ Freezer: -10℃~-25℃	Fridge: 2℃~8℃ Freezer: -10℃~-40℃
Accuracy (°C)	0.1	0.1	0.1	0.1
Power Supply (V/Hz)	220-240V/50Hz 115V/60Hz 220-240V/60Hz	220-240V/50Hz 115V/60Hz 220-240V/60Hz	220-240V/50Hz 115V/60Hz 220-240V/60Hz	220-240V/50Hz 115V/60Hz 220-240V/60Hz
Rated Power (W)	160	350	220-240V/50Hz: 340 115V/60Hz: 320 220-240V/60Hz: 320	220-240V/50Hz: 340 115V/60Hz: 320 220-240V/60Hz: 320
Electrical Current (A)	1.8	220-240V/50Hz: 3.2 115V/60Hz: 3.8 220-240V/60Hz: 2	220-240V/50Hz: 3 115V/60Hz: 4 220-240V/60Hz: 2	220-240V/50Hz: 3 115V/60Hz: 4 220-240V/60Hz: 2
Energy Consumption (kWh/24h)	220-240V/50Hz: 1.2 115V/60Hz: 1.5 220-240V/60Hz: 1.3	220-240V/50Hz: 3 115V/60Hz: 2 220-240V/60Hz: 1.6	1.4	220-240V/50Hz: 2.5 115V/60Hz: 2.4 220-240V/60Hz: 2.4
Dimensions				
Capacity (L/Cu.Ft)	Fridge: 206 / 7.27 Cu Ft Freezer: 144 / 5.09 Cu Ft Total Volume: 350 / 12.36 Cu Ft	Fridge: 206 / 7.27 Cu Ft Freezer: 144 / 5.09 Cu Ft Total Volume: 350 / 12.36 Cu Ft	Fridge: 247 / 8.72 Cu Ft Freezer: 259 / 9.15 Cu Ft Total Volume: 506 / 17.67 Cu Ft	Fridge: 247 / 8.72 Cu Ft Freezer: 259 / 9.15 Cu Ft Total Volume: 506 / 17.67 Cu Ft
Net/Gross Weight	220-240V/50Hz: 106/118 115V/60Hz: 103/113 220-240V/60Hz: 106/118	109/121	220-240V/50Hz: 141/163 115V/60Hz: 140/163 220-240V/60Hz: 140/163	220-240V/50Hz: 141/163 115V/60Hz: 140/163 220-240V/60Hz: 140/163
Interior Dimension (W × D × H)	Fridge: 600*505*690 mm (23.62×19.88×27.17 in) Freezer: 540*480*560 mm (21.26×18.9×22.05 in)	Fridge: 600*505*690 mm (23.62×19.88×27.17 in) Freezer: 540*480*560 mm (21.26×18.9×22.05 in)	Fridge: 680*596*630 mm (26.77×23.46×24.8 in) Freezer: 680*620*650 mm (26.77×24.41×25.59 in)	Fridge: 680*596*630 mm (26.77×23.46×24.8 in) Freezer: 680*620*650 mm (26.77×24.41×25.59 in)
Exterior Dimension (W × D × H)	695*655*1920 mm (27.36×25.79×75.59 in)	695*655*1920 mm (27.36×25.79×75.59 in)	866*811*1920 mm (34.09×31.93×75.59 in)	866*811*1920 mm (34.09×31.93×75.59 in)
Packing Dimension (W × D × H)	755*715*2025 mm (29.72×28.15×79.72 in)	755*715*2025 mm (29.72×28.15×79.72 in)	905*835*2040 mm (35.63×32.87×80.31 in)	905*835*2040 mm (35.63×32.87×80.31 in)
Material				
Out Door	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel
Interior	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)
Exterior	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)
Functions				
High/Low Temperature Alarm	✓	✓	✓	✓
Power Failure Alarm	✓	✓	✓	✓
Sensor Error Alarm	✓	✓	✓	✓
Low Battery Alarm	✓	✓	✓	✓
High Ambient Temperature Alarm	✓	✓	✓	✓
Door Ajar Alarm	✓	✓	✓	✓
Communication failure alarm	✓	✓	✓	✓
Recorder fault alarm	✓	✓	✓	✓
Recording is not started alarm	✓	✓	✓	✓
Closing one room Separately	✓	✓	✓	✓
Accessories				
Caster	4	4	4	4
Leveling Feet	2	2	2	2
Door Lock	Standard	Standard	Standard	Standard
Porthole (Qty/Diameter mm)	2/25mm (0.98 in) (right side)	2/25mm (0.98 in) (right side)	2/25mm (0.98 in) (right side)	2/25mm (0.98 in) (right side)
USB Interface	Standard	Standard	Standard	Standard
Remote Alarm Contact	Standard	Standard	Standard	Standard
Printer	Optional	Optional	Optional	Optional
RS 485 Port	Optional	Optional	Optional	Optional
Power Failure Backup System (alarm)	16h	16h	16h	16h
Others				
Certifications	CE, UL, NSF	CE, UL, NSF	CE, UL, NSF	CE, UL, NSF

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For more information please contact our team at info@pharmasystems.com
or learn more at **www.pharmasystems.com**

Tenutō Combo
25L350

This products combines individual refrigerator and freezer together, which can apply the needs of multi-temperature storage. Suitable for hospitals, university laboratories, scientific research institutes, electronic industry, chemical industry, and military industry.

25L350
Net capacity 350L (R:206L, F:144L)
Refrigerator 2 to 8˚C
Freezer -10˚C to -25˚C



Safer Storage
Superior Temperature Uniformity and Precise Control

- Microcomputer temperature control system
- Refrigerator and freezer temperature display independently
- Two compressors, refrigerator and freezer operate independently
- Temperature accuracy 0.1°C
- Temperature uniformity ±1.5°C
- USB port, temperature record traceable
- Backup battery

Advanced Technologies
Reliable and Stable Performance

- International famous compressor
- Top cooling system
- DC turbo fan
- Built-in air duct
- LBA forming technology
- Micro-channel condenser
- Patented D+ heat exchange technology, high efficiency and energy saving

Humanized Design
Friendly for Daily Use

- PVC coated steel shelves for refrigerator
- Fixed caster plus universal wheel
- Safety lock
- Easy open handl.
- Multi layers gaskets for freezer
- Better temperature insulation
- Wide voltage range design
- Access port
- Dry contacts

specs

Top Cooling System

Strong cooling airflow from the top to the bottom, works as an air curtain to block the external hot air from entering the refrigerator when door is opening, so as to prevent the temperature in the cabinet from rising rapidly, also contributes better temperature uniformity performance.

- Improves temperature uniformity performance by 40%.
- Max interior temperature difference ±1°C
- Prevent temperature rising rapidly when door is opening
- Energy consumption 47% lower than similar sized normal pharmacy refrigerator.

DC Turbo Fan

- Decrease noise level by 8%
- Integrated DC Turbo Fan works with smaller vibration and higher efficiency
- Safer for daily use
- No strong electric component in chamber, safer and more reliable.

Built-In Air Duct

- Increase the effective interior space by 10%
- Less interior space occupancy
- Built-in air duct plus the top cooling design, ensure temperature in the top of chamber is cool enough for storage

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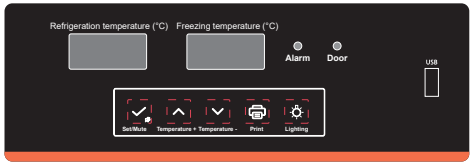
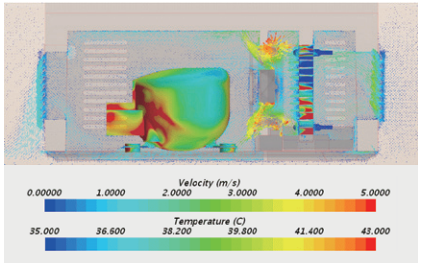
Dual Display

- Display refrigerator and freezers temperature independently.
- Refrigerator and freezer operate individually.
- Each compressor operates independently.

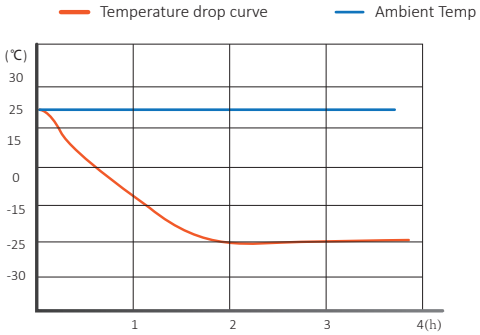


Micro-Channel Condenser

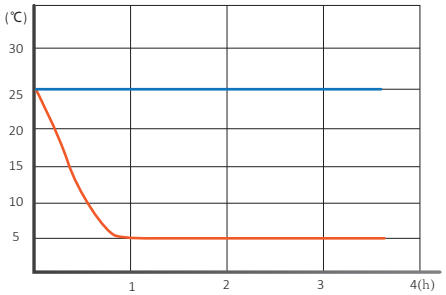
Compressor overheating protection, effectively improving the service life of the core part. Powerful heat dissipation for condenser, heat exchange capacity increase by more than 20% than common copper tube fin condenser of other suppliers.



Typical Performance Characteristics at 25°C Ambient



Freezer



Refrigerator

LBA Forming Technology

- The world's leading fourth generation foaming agent.
- More uniform density, better insulation, more energy-saving.
- More reasonable foaming layer design, larger interior storage space.

specs

Tenutō Combo 25L350 Specifications

Item	Model No.	25L350	
Specifications	Compartment	Refrigerator	Freezer
	Cabinet Type	Upright	
	Door Type	Solid Door	
	Climate Class	N	
	Cooling Type	Forced air	Direct
	Defrost Mode	Auto	Manual
	Compressor Type	GMCC/1	
	Sensor Quantity	3	1
	Refrigerant	R600a/28g	R600a/45g
	Storage Volume (L)	206	144
	Exterior Material	High quality coated steel	
	Interior Material	High quality coated steel	
	Insulation	LBA Foaming	
	Insulation (mm)	45	90
Dimensions	Compartment	Refrigerator	Freezer
	Interior Size(mm)	600*505*690	540*480*560
	Exterior Size WxDxH (mm)	695*655*1920	
	Packing Size with Tray (mm)	755*715*2025	
	Net Weight	93	
	Gross Weight	105	
	Packing Method	Carton	
	Container Load (20' /40'H)	24/48	

Item	Model No.	25L350	
Electrical Data	Compartment	Refrigerator	Freezer
	Controller	Microprocessor	
	Display	LED display	
	Temperature Range	2°C to 8°C	-10°C to -25°C
	Temperature Accuracy	0.1	
	Temperature Uniformity/°C	≤3°C	
	Power Supply (V/Hz)	220-240V~/50HZ	220-240V~/60HZ
	Noise dB(A)	45	
AlarmFunctions (Visible & Audible)	Compartment	Refrigerator	Freezer
	High Temperature Alarm	Y	
	Low Temperature Alarm	Y	
	Power Failure Alarm	Y	
	Sensor Failure Alarm	Y	
	Ambient Temperature Alarm	Y	
	Door Ajar alarm	Y	
	Remote Alarm	Y	
	Low Battery Alarm	Y	
Accessories	Compartment	Refrigerator	Freezer
	USB Interface	Y	
	RS485	Y	
	Shelves/Drawers	3	3
	Self Lock	Y	
	Cable Port	Y/1	Y/1
	Castor	Y	
	Backup Battery	Y	

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Tenutō Combo
40L350

This products combines individual refrigerator and freezer together, which can apply the needs of multi-tem perature storage .Suitable for hospitals, university laboratories, scientific research institutes, electronic industry, chemical industry, and military industry.

40L350
Net capacity 350L (R:206L,F:144L)
Refrigerator 2 to 8˚C
Freezer -20 to -40˚C



Safer Storage
Superior Temp. Uniformity and Precision Control

- Microcomputer temperature control system
- Refrigerator and freezer temperature display
- independently
- Two compressors, refrigerator and freezer operate independently
- Temperature accuracy 0.1˚C
- Temperature uniformity, ±1.5˚C
- USB port, temperature record traceable
- Backup battery

Advanced Technologies
Reliable and Stable Performance

- International famous compressor
- Top cooling system
- DC turbo fan
- Built-in air duct
- LBA forming technology
- Micro-channel condenser
- Patented D+ heat exchange technology, high efficiency, and energy saving

Humanized Design
Friendly for Daily Use

- PVC coated steel shelves for refrigerator
- Fixed caster + universal wheel
- Safety lock
- Easy open handle
- Muli layers gaskets for freezer, better temperature insulation
- Wide voltage range design
- Access port
- Dry contacts

specs

Top Cooling System

Strong cooling airflow from the top to the bottom, works as an air curtain to block the external hot air from entering the refrigerator when door is opening, so as to prevent the temperature in the cabinet from rising rapidly, also contributes better temperature uniformity performance.

- Improves temperature uniformity performance by 40%
- Max interior temperature difference ±1˚C
- Prevent temperature rising rapidly when door is opening
- Energy consumption 47% lower than similar sized normal pharmacy refrigerator

DC Turbo Fan

- Decrease noise level by 8%
- Integrated DC Turbo Fan works with smaller vibration and higher efficiency
- Safer for daily use
- No strong electric component in chamber, safer and more reliable

Built-In Air Duct

- Increase the effective interior space by 10%
- Less interior space occupancy
- Built-in air duct plus the top cooling design, ensure temperature in the top of chamber is cool enough for storage

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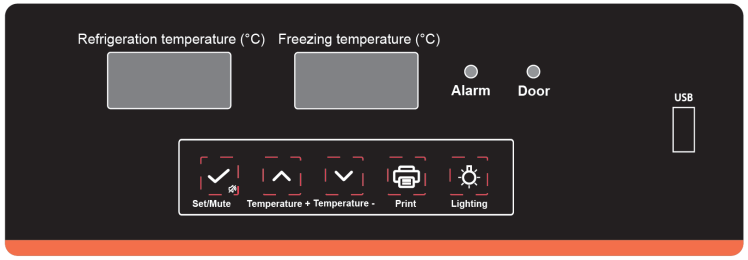
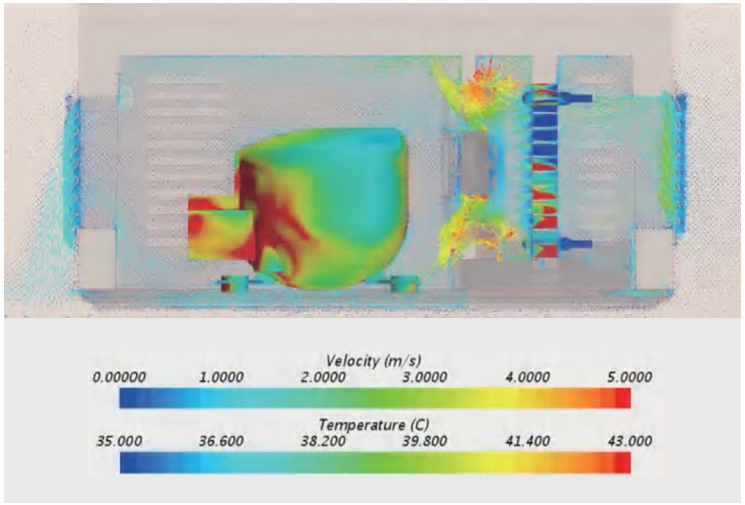
Dual-Temperature Control System

Display refrigerator and freezers temperature independently. Refrigerator and freezer operate individually, each compressor each operate independently.



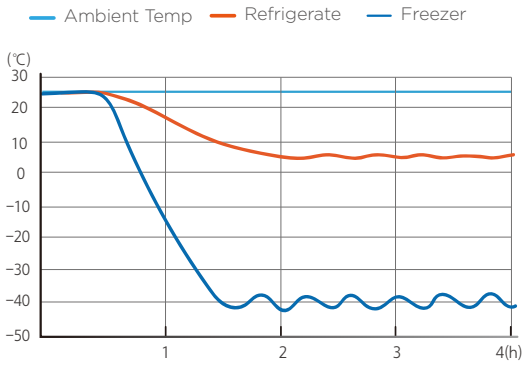
Micro-Channel Condenser

Compressor overheating protection, effectively improving the service life of the core part. Powerful heat dissipation for condenser, heat exchange capacity increase by more than 20% than common copper tube fin condenser of other suppliers.



Typical Performance Characteristics at 25˚C Ambient

Compressor overheating protection, effectively improving the service life of the core part. Powerful heat dissipation for condenser, heat exchange capacity increase by more than 20% than common copper tube fin condenser of other suppliers.



LBA Forming Technology

- The world's leading fourth generation foaming agent.
- More uniform density, Better insulation, more energy-saving.
- More reasonable foaming layer design, larger interior storage space.

specs

Tenutō Combo 40L350 Specifications

Item	Model No.	25L350	
Product Data	Compartment	Refrigerator	Freezer
	Temperature Range	2°C to 8°C	-20°C to -40°C
	Fridge Storage Volume (L)	206	144
	External Material	High quality coated steel	
	Internal Material	High quality coated steel	
	Product Dimensions WxDxH (mm)	695*655*1920	
	Interior Dimensions WxDxH (mm)	600*505*690	540*480*560
	Net/Gross Weight	106/118	
	Packing	Carton	
Technical Data	Compartment	Refrigerator	Freezer
	Cooling Type	Forced air	Direct
	Defrost type	Auto	Direct
	Climate Class	N	
	Noise dB(A)	45	
	Rated Voltage/Frequency (V/Hz)	220-240V~/50HZ	
	Rated Power(W)	350	
	Rated Current(A)	2	
	Refrigerant/Amount(g)	R600a/28g	R600a/45g
	Sensor Type	NTC	
Control	Compartment	Refrigerator	Freezer
	Controller	Microprocessor	
	Display	LED Display	

Item	Model No.	25L350	
Product Performance	Compartment	Refrigerator	Freezer
	Temperature Uniformity/°C	±1.5°C	
	Temperature Accuracy	0.1°C	
Multi Alarms	Compartment	Refrigerator	Freezer
	High Temperature Alarm	Y	
	Low Temperature Alarm	Y	
	High Ambient Temperature Alarm	Y	
	Power Failure Alarm	Y	
	Sensor Failure Alarm	Y	
	Door ajar Alarm	Y	
	Remote Alarm	Y	
	Low Battery Alarm	Y	
Accessories	Compartment	Refrigerator	Freezer
	USB	Y	
	Backup Battery	Y	
	Backup Battery Endurance	24 hour	
	Shelves/Drawer	3	3
	Cable Port	1	1
	Castors/Yype	4/front 2 wheels lockable	
	Printer	Optional	

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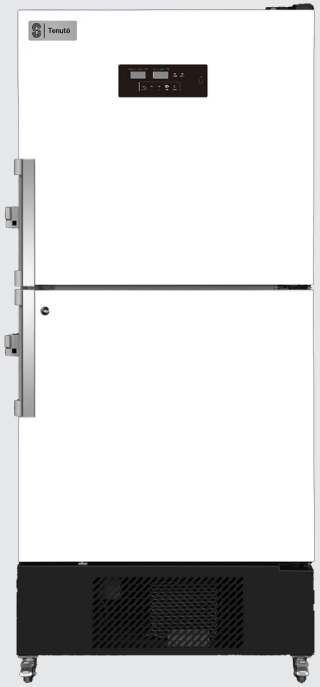
Tenutō Combo
25L506 & 40L506

This products combines individual refrigerator and freezer together, which can apply the needs of multi-temperature storage. Suitable for hospitals, university laboratories, scientific research institutes, electronic industry, chemical industry, and military industry.

25L506 and 40L506
Net capacity 506L (R:247L, F:259L)
Refrigerator 2˚C to 8˚C
Freezer -10˚C to -25˚C and -20˚C to -40˚C



Safer Storage
Superior Temperature Uniformity and Precise Control

- Microcomputer temperature control system
- Refrigerator and freezer temperature display independently
- Two compressors, refrigerator and freezer operate independently
- Temperature accuracy 0.1°C
- Temperature uniformity ±1.5°C
- USB port, temperature record traceable
- Backup battery

Advanced Technologies
Reliable and Stable Performance

- International famous compressor
- Top cooling system
- DC turbo fan
- Built-in air duct
- LBA forming technology
- Micro-channel condenser
- Patented D+ heat exchange technology, high efficiency and energy saving

Humanized Design
Friendly for Daily Use

- PVC coated steel shelves for refrigerator
- Tempered glass shelves for freezer
- Fixed caster plus universal wheel
- Safety lock
- Easy open handl.
- Multi layers for freezer
- Better temperature insulation
- Wide voltage range design
- Access port
- Dry contacts

specs

Top Cooling System

Strong cooling airflow from the top to the bottom, works as an air curtain to block the external hot air from entering the refrigerator when door is opening, so as to prevent the temperature in the cabinet from rising rapidly, also contributes better temperature uniformity performance.

- Improves temperature uniformity performance by 40%.
- Max interior temperature difference ±1°C
- Prevent temperature rising rapidly when door is opening
- Energy consumption 47% lower than similar sized normal pharmacy refrigerator.

DC Turbo Fan

- Decrease noise level by 8%
- Integrated DC Turbo Fan works with smaller vibration and higher efficiency
- Safer for daily use
- No strong electric component in chamber, safer and more reliable.

Built-In Air Duct

- Increase the effective interior space by 10%
- Less interior space occupancy
- Built-in air duct plus the top cooling design, ensure temperature in the top of chamber is cool enough for storage

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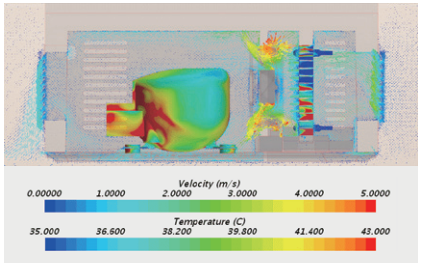
Dual Display

Display real-time temperature and humidity.



Micro-Channel Condenser

Compressor overheating protection, effectively improving the service life of the core part. Powerful heat dissipation for condenser, heat exchange capacity increase by more than 20% than common copper tube fin condenser of other suppliers.



LBA Forming Technology

- The world's leading fourth generation foaming agent.
- More uniform density, better insulation, more energy-saving.
- More reasonable foaming layer design, larger interior storage space.

specs

Tenutō Combo 25L506 and 40L506 Specifications

Item	Model No.	25L506		40L506	
Product Structure Data	Compartment	Fridge	Freezer	Fridge	Freezer
	Temperature Range	2 to 8°C	-10 to -25°C	2 to 8°C	-20 to -40°C
	Storage Volume (L)	247	259	247	259
	External Material	High quality coated steel			
	Internal Material	High quality coated steel			
	Product Dimensions WxDxH (mm)	866*811*1920			
	Interior Dimensions WxDxH (mm)	680*596*630	680*620*650	680*596*630	680*620*650
	Loading Dimensions WxDxH (mm)	905*835*2040			
	Net/Gross Weight	134/155		134/155	
	Load capacity (40HQ)	14/28		14/28	
	Thickness of Foaming Layer (mm)	45	75	45	75
	Foaming Agent	Cyclopantane			
	Packing	Carton			
	Stacking layers	1		1	
Technical Data	Compartment	Fridge	Freezer	Fridge	Freezer
	Cooling Type	Forced air	Direct	Forced air	Direct
	Defrost Type	Auto	Manual	Auto	Manual
	Climate Class	N			
	Rated Voltage/ Frequency(V/Hz)	220-240V~/50HZ			
	Rated Power(W)	250			
	Rated Current(A)	2.5			
	Refrigerant/Amount(g)	R600a/38g	R290/70g	R600a/38g	R290/70g

Item	Model No.	25L506		40L506	
Control	Compartment	Fridge	Freezer	Fridge	Freezer
	Controller	Microprocessor			
	Display	LED			
Product Performance	Compartment	Fridge	Freezer	Fridge	Freezer
	Temperature Uniformity/°C	±1.5			
	Temperature Accuracy	0.1°C			
Alarms	Compartment	Fridge	Freezer	Fridge	Freezer
	Sound Alarm	Y			
	Light Alarm	Y			
	High Temperature Alarm	Y			
	Low Temperature Alarm	Y			
	High Ambient Temperature Alarm	Y			
	Power Failure Alarm	Y			
	Sensor Failure Alarm	Y			
	Door Ajar Alarm	Y			
	Remote Alarm	Y			
Accessories	Compartment	Fridge	Freezer	Fridge	Freezer
	USB	Y			
	Lock	Y			
	Backup Battery	Y			
	Shelves/Drawer	3	2	3	3
	Handle	Grip			
	Cable Port	Y			
	Castors/type	Y			
	Printer	Optional			

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Tenutō Features Overview

Ultra



	Lab Guard Series		Dual X Series			BS Series
Specifications	**22321**	**22322**	**22324**	**22325**	**22326**	**22323**
Technical Data						
Working Conditions	+10℃-+32℃	+10℃-+32℃	+10℃-+32℃	+10℃-+32℃	+10℃-+32℃	+10℃-+32℃
Cabinet Type	Upright	Upright	Upright	Upright	Upright	Upright
Cooling Type/Defrost Mode	Direct Cooling/Manual	Direct Cooling/Manual	Direct Cooling/Manual	Direct Cooling/Manual	Direct Cooling/Manual	Direct Cooling/Manual
Compressor	SECOP	SECOP	SECOP/Inverter*2	SECOP/Inverter*2	SECOP/Inverter*2	SECOP
Refrigerant Gas	HC (CFC free)	HC (CFC free)	HC (CFC free)	HC (CFC free)	HC (CFC free)	HC (CFC free)
Noise Level (dB(A))	220-240V/50Hz: 45 115V/60Hz: 46 220-240V/60Hz: 45	50	46	46	46	46
Controller						
Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Display	LED	LED	Touchscreen	Touchscreen	Touchscreen	Touchscreen
Performance						
Temperature Range (°C)	-40℃~-86℃	-40℃~-86℃	-40℃~-86℃	-40℃~-86℃	-40℃~-86℃	-40℃~-86℃
Accuracy (°C)	0.1	0.1	0.1	0.1	0.1	0.1
Cooling Performance (°C)	-86℃	-86℃	-86℃	-86℃	-86℃	-86℃
Electrical Data						
Power Supply (V/Hz)	220-240V/50Hz 115V/60Hz 220-240V/60Hz	220-240V/50Hz 115V/60Hz 220-240V/60Hz	100-240V/50/60Hz	100-240V/50/60Hz	100-240V/50/60Hz	220-240V/50Hz 115V/60Hz 220-240V/60Hz
Operation Power (W)	220-240V/50Hz: 420 115V/60Hz: 470 220-240V/60Hz: 420	220-240V/50Hz: 610 115V/60Hz: 670 220-240V/60Hz: 610	360	450	495	220-240V/50Hz: 765 115V/60Hz: 900 220-240V/60Hz: 765
Electrical Current (A)	220-240V/50Hz: 4.9 115V/60Hz: 8 220-240V/60Hz: 3.3	220-240V/50Hz: 5.3 115V/60Hz: 8.5 220-240V/60Hz: 5.3	6.5	6.5	7	220-240V/50Hz: 5.9 115V/60Hz: 10 220-240V/60Hz: 5.9
Energy Consumption (kWh/24h)	220-240V/50Hz: 4.6 115V/60Hz: 5.2 220-240V/60Hz: 3.9	220-240V/50Hz: 9.7 115V/60Hz: 11.04 220-240V/60Hz: 9.6	6.2	6.5	6.9	220-240V/50Hz: 9.5 115V/60Hz: 9.5 220-240V/60Hz: 10
Dimensions						
Capacity (L/Cu.Ft)	108 L / 3.81 Cu Ft	358 L / 12.64 Cu Ft	580 L / 20.48 Cu Ft	720 L / 25.43 Cu Ft	860 L / 30.37 Cu Ft	458 L / 16.17 Cu Ft
Net/Gross Weight	113/141	160/206	288/331	320/370	344/403	220-240V/50Hz: 237/292 115V/60Hz: 234/289 220-240V/60Hz: 237/292
Interior Dimension (W × D × H)	440*435*590 mm (17.32×17.13×23.23 in)	450*583*1326 mm (17.72×22.95×52.2 in)	595*720*1310 mm (23.43×28.35×51.57 in)	740*720*1310 mm (29.13×28.35×51.57 in)	885*720*1310 mm (34.84×28.35×51.57 in)	595*580*1310 mm (23.43×22.83×51.57 in)
Exterior Dimension (W × D × H)	955*675*815 mm (37.6×26.57×32.09 in)	795*885*1855 mm (31.3×34.84×73.03 in)	885*995*1980 mm (34.84×39.17×77.95 in)	1030*995*1980 mm (40.55×39.17×77.95 in)	1175*995*1980 mm (46.26×39.17×77.95 in)	885*855*1980 mm (34.84×33.66×77.95 in)
Packing Dimension (W × D × H)	1040*775*995 mm (40.94×30.51×39.17 in)	885*1030*2035 mm (34.84×40.55×80.12 in)	980*1145*2155 mm (38.58×45.08×84.84 in)	1125*1145*2155 mm (44.29×45.08×84.84 in)	1270*1145*2155 mm (50.0×45.08×84.84 in)	980*1000*2155 mm (38.58×39.37×84.84 in)
Cabinet Width (without handle and hinge)	620	690	755	920	1065	715
Material						
Out Door	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel
Interior	PCM (Pre-coated Steel)	PCM (Pre-coated Steel)	SUS 304	SUS 304	SUS 304	SUS 304
Exterior	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel	Powder Coated Cold Rolled Steel
Inner Doors	Foaming Door Powder Coated Cold Rolled Steel	Foaming Door Powder Coated Cold Rolled Steel	Foaming Door Powder Coated Cold Rolled Steel	Foaming Door Powder Coated Cold Rolled Steel	Foaming Door Powder Coated Cold Rolled Steel	Foaming Door Powder Coated Cold Rolled Steel
Shelf	SUS 304	SUS 304	SUS 304	SUS 304	SUS 304	SUS 304
Functions						
High/Low Temperature Alarm	✓	✓	✓	✓	✓	✓
Hot Condenser Alarm	✓	✓	✓	✓	✓	✓
Power Failure Alarm	✓	✓	✓	✓	✓	✓
Sensor Error Alarm	✓	✓	✓	✓	✓	✓
Low Battery Alarm	✓	✓	✓	✓	✓	✓
High Ambient Temperature Alarm	✓	✓	✓	✓	✓	✓
Door Ajar Alarm	✓	✓	✓	✓	✓	✓
Communication failure alarm	✓	✓	✓	✓	✓	✓
Recorder fault alarm	✓	✓	✗	✗	✗	✗
Recording is not started alarm	✓	✓	✗	✗	✗	✗
Start-up delay	✓	✓	✓	✓	✓	✓
Accessories						
Caster	2	4	4	4	4	4
Leveling Feet	2	4	2	2	2	2
Door Lock	Standard	Standard	Standard	Standard	Standard	Standard
Porthole (Qty/Diameter mm)	1/25mm (0.98 in) (rear side)	2/25mm (0.98 in) (rear side)	2/25mm (0.98 in) (rear side)	2/25mm (0.98 in) (rear side)	2/25mm (0.98 in) (rear side)	2/25mm (0.98 in) (rear side)
Shelves Qty	1(Adjustable)	3(Adjustable)	3(Adjustable)	3(Adjustable)	3(Adjustable)	3(Adjustable)
Freezer Racks Quantity (2” boxes)	5*3/6	5*4/12	5*5/16	5*5/20	5*5/24	5*4/16
Capacity (2” boxes)	90	240	400	500	600	320
USB Interface	Standard	Standard	Standard	Standard	Standard	Standard
Remote Alarm Contact	Standard	Standard	Standard	Standard	Standard	Standard
5V Power Supply Port	Standard	Standard	Standard	Standard	Standard	Standard
Printer/Chart Recorder	Optional	Optional	Optional	Optional	Optional	Optional
RS 485 Port	Optional	Optional	Optional	Optional	Optional	Optional
Power Failure Backup System (alarm)	44h	16h	17h	17h	17h	10h
CO_2 Backup System	✓	✓	✓	✓	✓	✓
LN_2 Backup System	✓	✓	✓	✓	✓	✓
Others						
Certifications	CE, UL	CE, UL	CE, UL, Energy Star	CE, UL, Energy Star	CE, UL, Energy Star	CE, UL
Abnormal Voltage Alarm	✗	✗	✓	✓	✓	✗
System Failure Alarm	✗	✗	✓	✓	✓	✗

PharmaSystems Inc.
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For more information please contact our team at info@pharmasystems.com
or learn more at **www.pharmasystems.com**

Tenutō Ultra
86L108



86L108 Undercounter
Net capacity 108L
Freezer -40 to -86˚C

Safe and Reliable Samples Storage

- High temperature uniformity
- Imported world-famous components

Smart Design, Super Sample Storage

- 9,000 vials (2ml) storage
- Biggest in industry

Multi-Level Alarms

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

Fast Cabinet Pull Down

Faster cool down time compare with average.

VIP PLUS

VIP PLUS vacuum insulation provides up to 30% more storage capacity than a conventionally insulated freezer.

Steel Cabinet

- Abrasive and corrosion resistance
- Easy to clean

specs

USB Interface

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

Ingenious Handle Design

Open and close door easier. Lockable handle safe-guards your precious samples. Padlock can also be added for extra sample safety.

LED Display

LED screen to provide optimal user experience. The built in USB port allows logged data to be easily transferred to PC.

Multi-Layer Silicone Sealing Structure

Multi-layers silicone 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.

Double Inner Doors

- Can reduce cooling loss when opening the outer door
- Easy to clean

Tool-Free Removable Filter Design

Easy and quick to clean the filter.

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Tenutō Ultra 86L108 Specifications

Item	Model No.	86L108
Technical Data	Compartment	Freezer
	Cabinet Type	Upright
	Climate Class	N
	Cooling Type	Direct cooling
	Defrost Type	Manual
	Refrigerant/Amount (g)	Mixed refrigerant
	Net Storage Volume (L)	108
	2ml Cryo Tube Quantity	9000
	External Material	High quality coated steel
	Inner Material	Galvanized steel sheet
	Compressor Type	Fixed frequency
	Sensor Quantity	PT1000/3
	Power Supply	220-240V~/50HZ
Control	Compartment	Freezer
	Controller	Microprocessor
	Display	LED
	Temperature Range	-40°C to -86°C
	Temperature Accuracy	0.1
	Temperature Uniformity/°C	±2
Dimensions	Compartment	Freezer
	Product Dimensions WxDxH (mm)	955*675*815
	Interior Dimensions WxDxH (mm)	440*435*590
	Net/Gross Weight	113/141

Item	Model No.	86L108
Functions	Compartment	Freezer
	Sound Alarm	Y
	Light Alarm	Y
	Remote Alarm	Y
	High Temperature Alarm	Y
	Low Temperature Alarm	Y
	Door Ajar Alarm	Y
	Power Failure Alarm	Y
	Low Battery Alarm	Y
	Sensor Failure Alarm	Y
	Environment Temperature Alarm	Y
	Hot Condenser Alarm	Y
	Communication Failure Alarm	Y
	USB interface	Y
	Door Heating	Y
	Shelves Quantity	1
	Cable Port	1
	Backup Battery	Y
	Backup Battery Endurance	52 hour

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Tenutō Ultra
86L358

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.

86L358
Net capacity 358L
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

High Space-Efficient

Maximize space efficiency with 11% more sample storage compared to competitors, delivering exceptional value with a high-performance-to-price ratio.

Safe and Reliable Samples Storage

- Superior temperature uniformity
- Imported world-famous components.

specs

Low Noise

Enjoy enhanced satisfaction with our low-noise design,Specialized refrigeration system with whisper-quiet components. Freezer chassis minimizes vibration and absorbs noise.

Double Door Design

Two 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.

Multi-Level Alarms

Capable of producing two types of alarm outputs: audible buzzer and visible flashing.

Alarm functions include:

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

Optimized Refrigeration System

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

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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

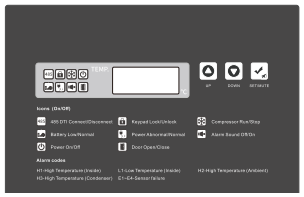
Provides up to 30% more storage capacity than a conventionally insulated freezer, without increasing the footprint. A glass fibre core provides advanced thermal properties.

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.



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.

Heated Pressure Equalization Port

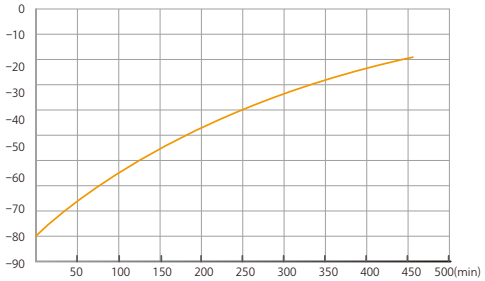
It allows users to re-open the main door quickly when

Narrow Door Design

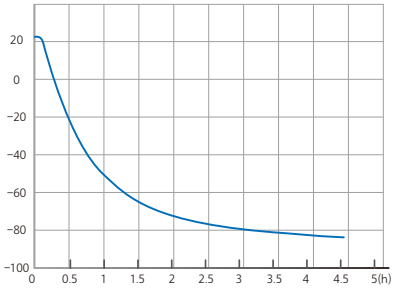
The freezer can pass through an 750mm wide door when the door is open.

Typical Performance Characteristics at 25°C Ambient

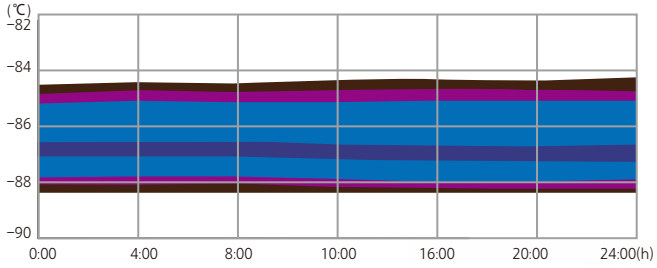
Temperature recover curve



Temperature cool down curve



Temperature uniformity



Tenutō Ultra 86L358 Specifications

Item	Model No.	86L358
Technical Data	Compartment	Freezer
	Cabinet Type	Upright
	Climate Class	N
	Cooling Type	Direct cooling
	Defrost Type	Manual
	Refrigerant/Amount (g)	Mixed refrigerant
	Net Storage Volume (L)	358
	2ml Cryo Tube Quantity	24000
	External Material	High quality coated steel
	Inner Material	PCM liner
	Compressor Type	Fixed frequency
	Sensor Quantity	PT1000/3
	Power Supply	220-240V~/50HZ
Control	Compartment	Freezer
	Controller	Microprocessor
	Display	LED
	Temperature Accuracy	0.1
	Temperature Range	-40°C to -86°C

Item	Model No.	86L358
Dimensions	Compartment	Freezer
	Product Dimensions WxDxH (mm)	795*885*1855
	Interior Dimensions WxDxH (mm)	450*583*1326
Functions	Compartment	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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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

specs

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.

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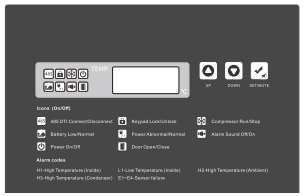
USB Port

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 Designt

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

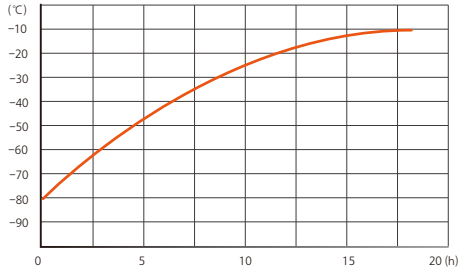
The freezer can pass through an 750mm wide door when the door is open.

Mechanical Assisted Door Handles

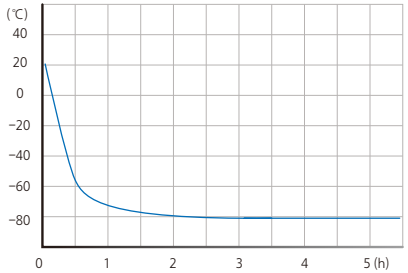
Mechanical assisted door handles make opening the door more convenient Lockable handle safeguards your precious samples. Padlock can also be added for extra sample safety.

Typical Performance Characteristics at 25°C Ambient

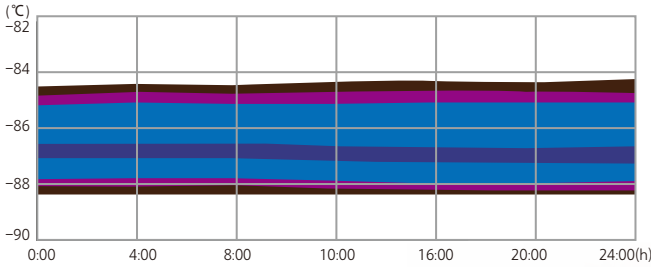
Temperature recover curve



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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Tenutō Ultra
86L580BS



86L580BST
Net capacity 580L
Freezer -40 to -86˚C

Dual Cooling and Dual Guard

Two independent systems ensure uninterrupted operation, even if one fails; Dual systems reduce individual load, extending overall lifespan

Super and Even Cooling

- 168 minutes rapid Cooling (25°C to -81°C)
- ±3 Uniformity

FLEX-VOLT® (115-240~V)

Stable operation at 115-240-V, 50/60Hz.

Energy-Saving and Low Noise

6.2KW/24h power consumption and 46dB low noise.

specs

Additional Features

- 10.1 inch LCD Touch Display
- 304 SS vs PCM
- 220V 10A Plug (10A VS 15A)
- Ingenious Handle Design
- Li-ion vs Lead-Acid (Maintenance-Free)
- Five-Layer Silicone Seal
- Anti-Condensation (80% Humidity)

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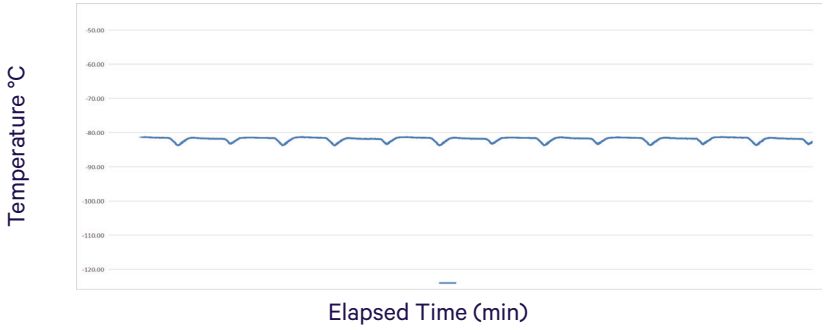
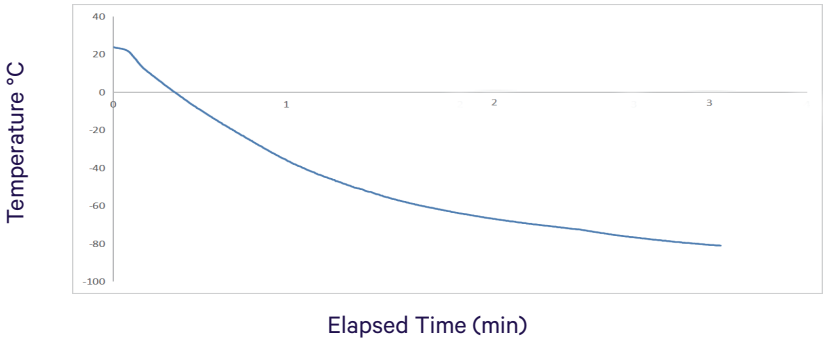
All Performance Data from 580L ULT Freezer, 25 Ambient, -81°C

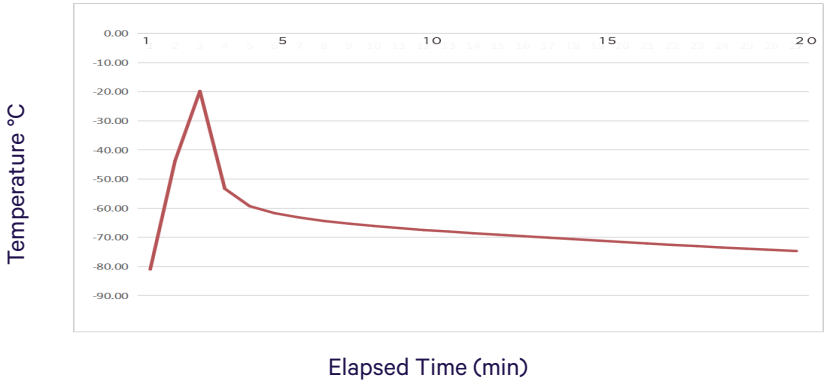
Uniformity



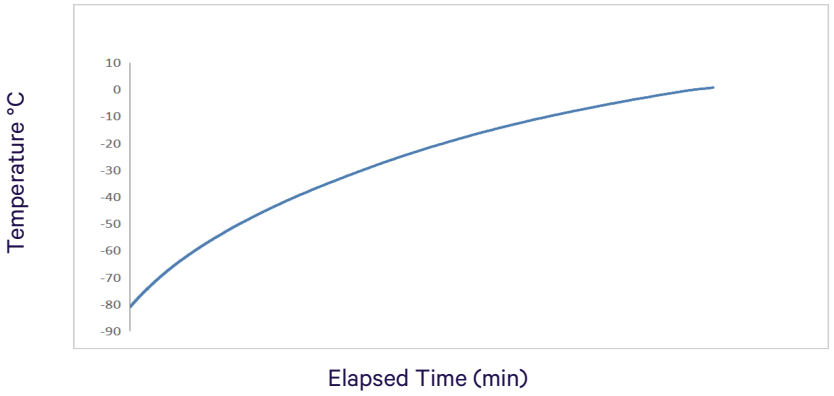
Cooling Speed



DOR 1 Minute



Temperature Rise Profile



Typical Temperature Map

	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8	Test 9
Avg	-81.50	-81.60	-82.76	-82.28	-82.77	-82.42	-81.39	-81.98	-82.24
Max	-80.10	-80.40	-80.80	-80.00	-80.60	-80.30	-80.00	-80.80	-81.00
Min	-82.40	-83.40	-84.60	-84.20	-84.50	-84.20	-82.80	-83.20	-83.50

Tenutō Ultra 86L580BS Specifications

Item	Model No.	86L580BS
Application, Rating, and Electrical Data	Compartment	Freezer
	Application	ULT freezer
	Storage Volume (L/cubic feet)	580/20.48
	Temperature Range	-40°C to -86°C
	Default Set Point	-81°C
	Power	115-240~V /50Hz/60Hz
	Current	14A (at 115V) ,6.5A(at 240V)
	Power Cord Length	1.7 m
	Certification	CE
	Door type	Solid door
	Application Environment	Non-corrosive, non-flammable, non-explosive
	Ambient Operating Temperature	10°C~32°C
Refrigeration	Compartment	Freezer
	Refrigeration System	Dual Inverter cooling
	Compressor	Hermetic, variable speed
	Condenser Type	Air cooling
	Expansion Device	Capillary tube
	Evaporator Type	Built-in
	Defrost Method	Manual defrosting
	Refrigerant	Mix refrigerant
Dimensions and Construction	Compartment	Freezer
	Interior Dimensions WxDxH (mm)	885*855*1980
	Exterior Dimensions WxDxH (mm)	595*580*1310
	Access Port	2 Access Port- for external monitoring probe(s) (25 mm diameter)
	Shelf	3 | 87 kg max capacity
	Wheels	4 Swivel Casters + 2 Leveling Feet
	Net Weight	288 kg
	Gross Weight	331 kg

Item	Model No.	86L580BS
Controller / Configuration Settings	Compartment	Freezer
	Display Screen	10.1“LCD Touch screen
	Controller Type	Microprocessor
	Security	Lockable door, password protected settings
	Control Sensor	PT1000, stainless steel
	Communication Ports	USB, Remote alarm contacts
	Power Failure Alarm	Yes
	High/Low Alarms	Yes, fully adjustable
	Door Ajar Alarm	Yes
	Download	Yes, via USB, PDF
	Temperature Log	Yes, download via USB
	Battery Back-up	Yes, 17 hour display and alarm back-up Rechargeable 12V, li-ion battery
Performance Characteristics (normal operating conditions)	Compartment	Freezer
	Uniformity (°C)	±3
	Recovery to -75°C after 1 min door opening (minutes)	19
	Temperature Fluctuation (°C)	≤2.2
	Energy Consumption (kWh/day)	6.2
	Noise Emission (dB)	46
	Heat Rejection (BTU/hr)	1670
	Pull-down Time to -81°C (min)	168
	Backup Time (hours)	17
	Optional Accessories	Cryo Rack, Cryo Box, Cryovial, Chart Recorder, Cold Chain Monitor, LN2 Backup, CO2 Backup, Printer

For more information, visit:
swisslog-healthcare.com/tenuto

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Tenutō Ultra
86L720BS



86L720BST
Net capacity 720L
Freezer -40 to -86˚C

Dual Cooling and Dual Guard

Two independent systems ensure uninterrupted operation, even if one fails; Dual systems reduce individual load, extending overall lifespan

Super and Even Cooling

- 180 minutes rapid Cooling (25°C to -81°C)
- ±3 Uniformity

FLEX-VOLT® (115-240~V)

Stable operation at 100-240-V, 50/60Hz.

Energy-Saving and Low Noise

6.5KW/24h power consumption and 46dB low noise.

specs

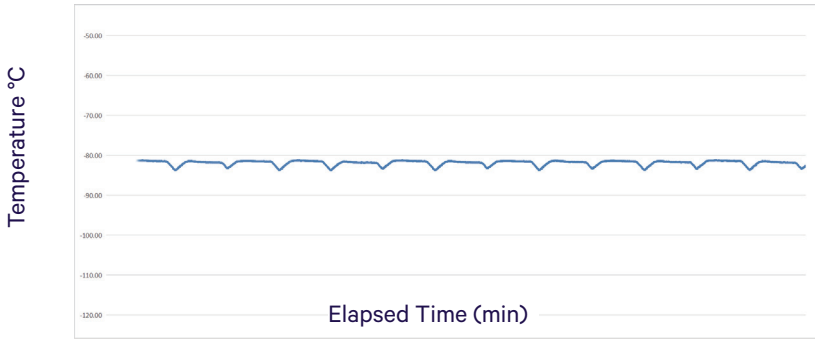
Additional Features

- 10.1 inch LCD Touch Display
- 304 SS vs PCM
- 220V 10A Plug (10A VS 15A)
- Ingenious Handle Design
- Li-ion vs Lead-Acid (Maintenance-Free)
- Five-Layer Silicone Seal
- Anti-Condensation (80% Humidity)

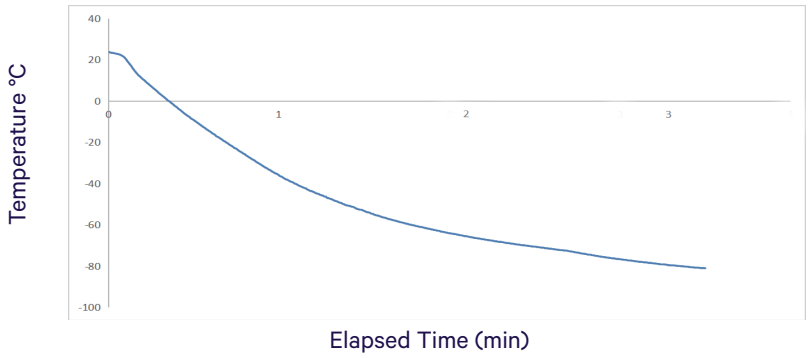
swisslog healthcare

All Performance Data from 720L ULT Freezer, 25 Ambient, -81°C

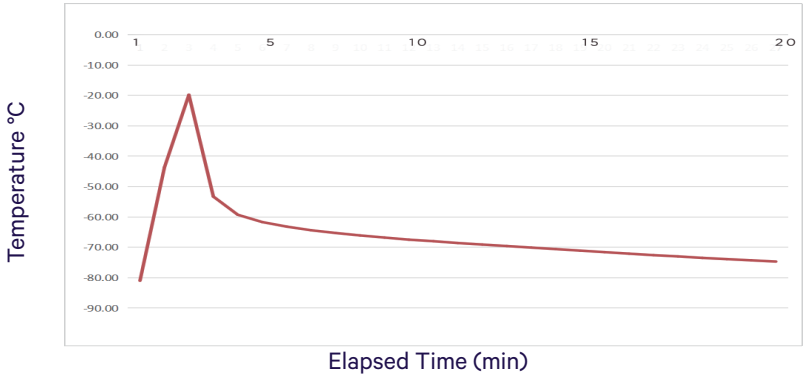
Uniformity



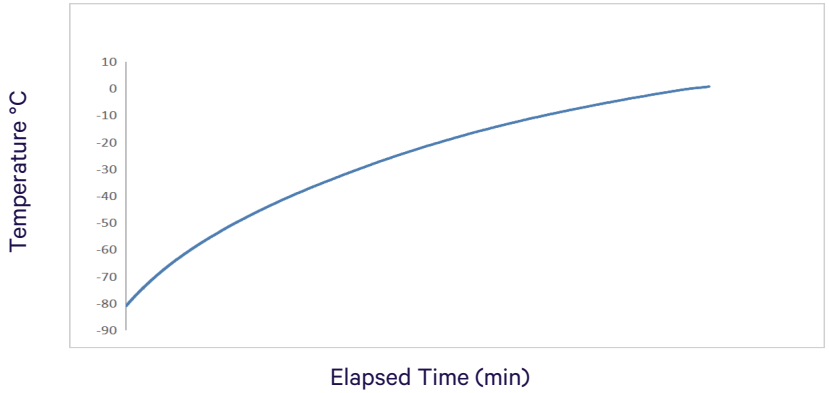
Cooling Speed



DOR 1 Minute



Temperature Rise Profile



Typical Temperature Map

	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8	Test 9
Avg	-81.50	-81.60	-82.76	-82.28	-82.77	-82.42	-81.39	-81.98	-82.24
Max	-80.10	-80.40	-80.80	-80.00	-80.60	-80.30	-80.00	-80.80	-81.00
Min	-82.40	-83.40	-84.60	-84.20	-84.50	-84.20	-82.80	-83.20	-83.50

Tenutō Ultra 86L720BS Specifications

Item	Model No.	86L720BS
Application, Rating, and Electrical Data	**Compartment**	**Freezer**
	Application	ULT freezer
	Storage Volume (L/cubic feet)	720/25.43
	Temperature Range	-40°C to -86°C
	Default Set Point	-81°C
	Power	100V-240~V /50Hz/60Hz
	Current	14A (at 100V) ,6.5A(at 240V)
	Power Cord Length	1.7m
	Certification	CE
	Door type	Solid door
	Application Environment	Non-corrosive, non-flammable, non-explosive
	Ambient Operating Temperature	10°C~32°C
Refrigeration	**Compartment**	**Freezer**
	Refrigeration System	Dual Inverter cooling
	Compressor	Hermetic, variable speed
	Condenser Type	Air cooling
	Expansion Device	Capillary tube
	Evaporator Type	Built-in
	Defrost Method	Manual defrosting
	Refrigerant	Mix refrigerant
Dimensions and Construction	**Compartment**	**Freezer**
	Interior Dimensions WxDxH (mm)	740*720*1310 mm
	Exterior Dimensions WxDxH (mm)	1030*995*1980 mm
	Access Port	2 Access Port- for external monitoring probe(s) (25 mm diameter)
	Shelf	3 | 87 kg max capacity
	Wheels	4 Swivel Casters + 2 Leveling Feet
	Net Weight	320 kg
	Gross Weight	370 kg

Item	Model No.	86L720BS
Controller / Configuration Settings	**Compartment**	**Freezer**
	Display Screen	10.1“LCD Touch screen
	Controller Type	Microprocessor
	Security	Lockable door, password protected settings
	Control Sensor	PT1000, stainless steel
	Communication Ports	USB, Remote alarm contacts
	Power Failure Alarm	Yes
	High/Low Alarms	Yes, fully adjustable
	Door Ajar Alarm	Yes
	Download	Yes, via USB, PDF
	Temperature Log	Yes, download via USB
	Battery Back-up	Yes, 17 hour display and alarm back-up Rechargeable 12V, li-ion battery
Performance Characteristics (normal operating conditions)	**Compartment**	**Freezer**
	Uniformity (°C)	±3
	Recovery to -75°C after 1 min door opening (minutes)	20
	Temperature Fluctuation (°C)	≤3
	Energy Consumption (kWh/day)	6.5
	Noise Emission (dB)	46
	Heat Rejection (BTU/hr)	1638
	Pull-down Time to -81°C (min)	180
	Backup Time (hours)	17
	Optional Accessories	Cryo Rack, Cryo Box, Cryovial, Chart Recorder, Cold Chain Monitor, LN2 Backup, CO2 Backup, Printer

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Tenutō Ultra
86L860BS



86L860BST
Net capacity 860L
Freezer -40 to -86˚C

Dual Cooling and Dual Guard

Two independent systems ensure uninterrupted operation, even if one fails; Dual systems reduce individual load, extending overall lifespan

Super and Even Cooling

- 213 minutes rapid Cooling (25°C to -81°C)
- ±3 Uniformity

FLEX-VOLT® (115-240~V)

Stable operation at 100-240-V, 50/60Hz.

Energy-Saving and Low Noise

6.9KW/24h power consumption and 46dB low noise.

specs

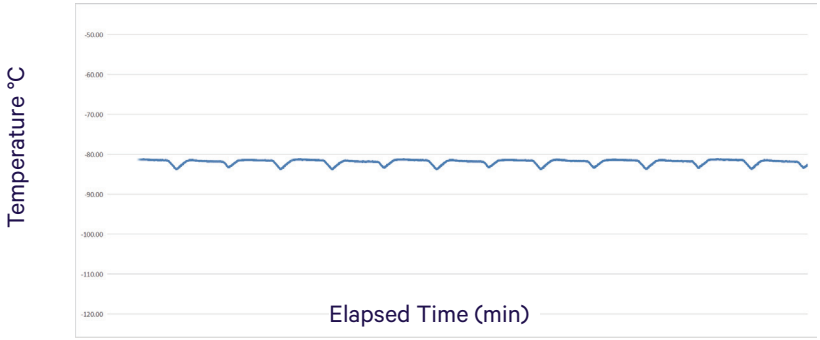
Additional Features

- 10.1 inch LCD Touch Display
- 304 SS vs PCM
- 220V 10A Plug (10A VS 15A)
- Ingenious Handle Design
- Li-ion vs Lead-Acid (Maintenance-Free)
- Five-Layer Silicone Seal
- Anti-Condensation (80% Humidity)

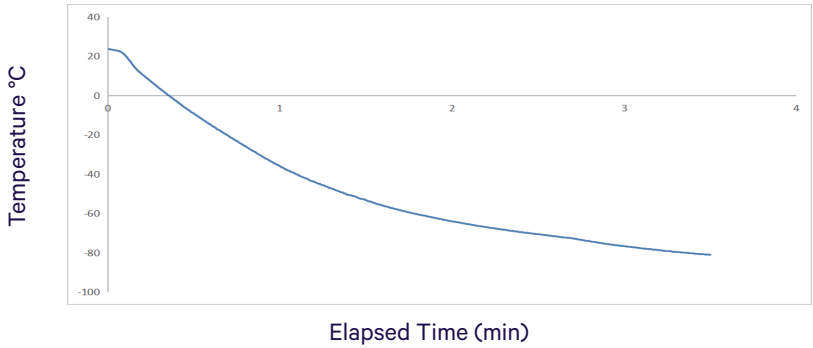
swisslog healthcare

All Performance Data from 860L ULT Freezer, 25 Ambient, -81°C

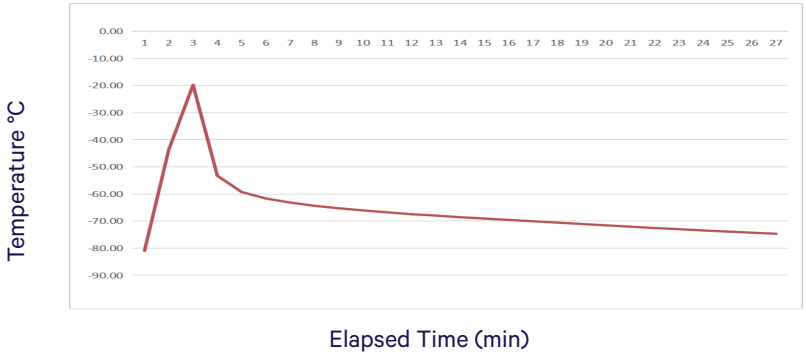
Uniformity



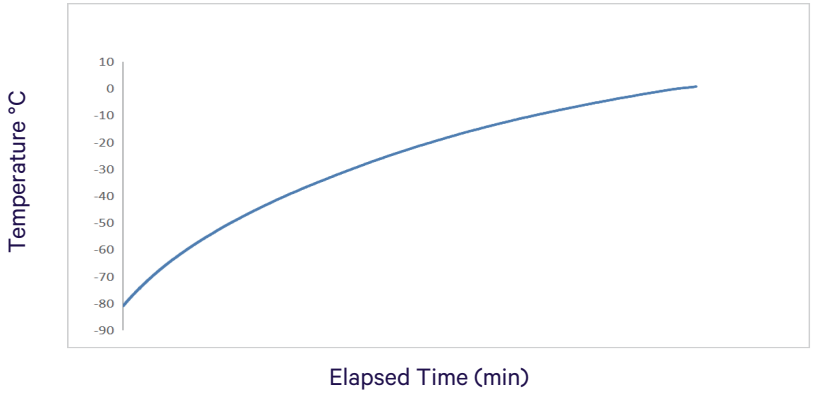
Cooling Speed



DOR 1 Minute



Temperature Rise Profile



Typical Temperature Map

	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8	Test 9
Avg	-81.50	-81.60	-82.76	-82.28	-82.77	-82.42	-81.39	-81.98	-82.24
Max	-80.10	-80.40	-80.80	-80.00	-80.60	-80.30	-80.00	-80.80	-81.00
Min	-82.40	-83.40	-84.60	-84.20	-84.50	-84.20	-82.80	-83.20	-83.50

Tenutō Ultra 86L860BS Specifications

Item	Model No.	86L860BS
Application, Rating, and Electrical Data	Compartment	Freezer
	Application	ULT freezer
	Storage Volume (L/cubic feet)	860/30.37
	Temperature Range	-40°C to -86°C
	Default Set Point	-81°C
	Power	100-240~V /50/60Hz
	Current	14A (at 100V) ,7A(at 240V)
	Power Cord Length	1.7m
	Certification	CE
	Door type	Solid door
	Application Environment	Non-corrosive, non-flammable, non-explosive
	Ambient Operating Temperature	10°C~32°C
Refrigeration	Compartment	Freezer
	Refrigeration System	Dual Inverter cooling
	Compressor	Hermetic, variable speed
	Condenser Type	Air cooling
	Expansion Device	Capillary tube
	Evaporator Type	Built-in
	Defrost Method	Manual defrosting
	Refrigerant	Mix refrigerant
Dimensions and Construction	Compartment	Freezer
	Interior Dimensions WxDxH (mm)	885*720*1310 mm
	Exterior Dimensions WxDxH (mm)	1175*995*1980 mm
	Access Port	2 Access Port- for external monitoring probe(s) (25 mm diameter)
	Shelf	3 | 87 kg max capacity
	Wheels	4 Swivel Casters + 2 Leveling Feet
	Net Weight	344 kg
	Gross Weight	403 kg

Item	Model No.	86L860BS
Controller / Configuration Settings	Compartment	Freezer
	Display Screen	10.1“LCD Touch screen
	Controller Type	Microprocessor
	Security	Lockable door, password protected settings
	Control Sensor	PT1000, stainless steel
	Communication Ports	USB, Remote alarm contacts
	Power Failure Alarm	Yes
	High/Low Alarms	Yes, fully adjustable
	Door Ajar Alarm	Yes
	Download	Yes, via USB, PDF
	Temperature Log	Yes, download via USB
	Battery Back-up	Yes, 17 hour display and alarm back-up Rechargeable 12V, li-ion battery
Performance Characteristics (normal operating conditions)	Compartment	Freezer
	Uniformity (°C)	±3
	Recovery to -75°C after 1 min door opening (minutes)	27
	Temperature Fluctuation (°C)	≤3.2
	Energy Consumption (kWh/day)	6.9
	Noise Emission (dB)	46
	Heat Rejection (BTU/hr)	1706
	Pull-down Time to -81°C (min)	213
	Backup Time (hours)	17
	Optional Accessories	Cryo Rack, Cryo Box, Cryovial, Chart Recorder, Cold Chain Monitor, LN2 Backup, CO2 Backup, Printer

For more information, visit:
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