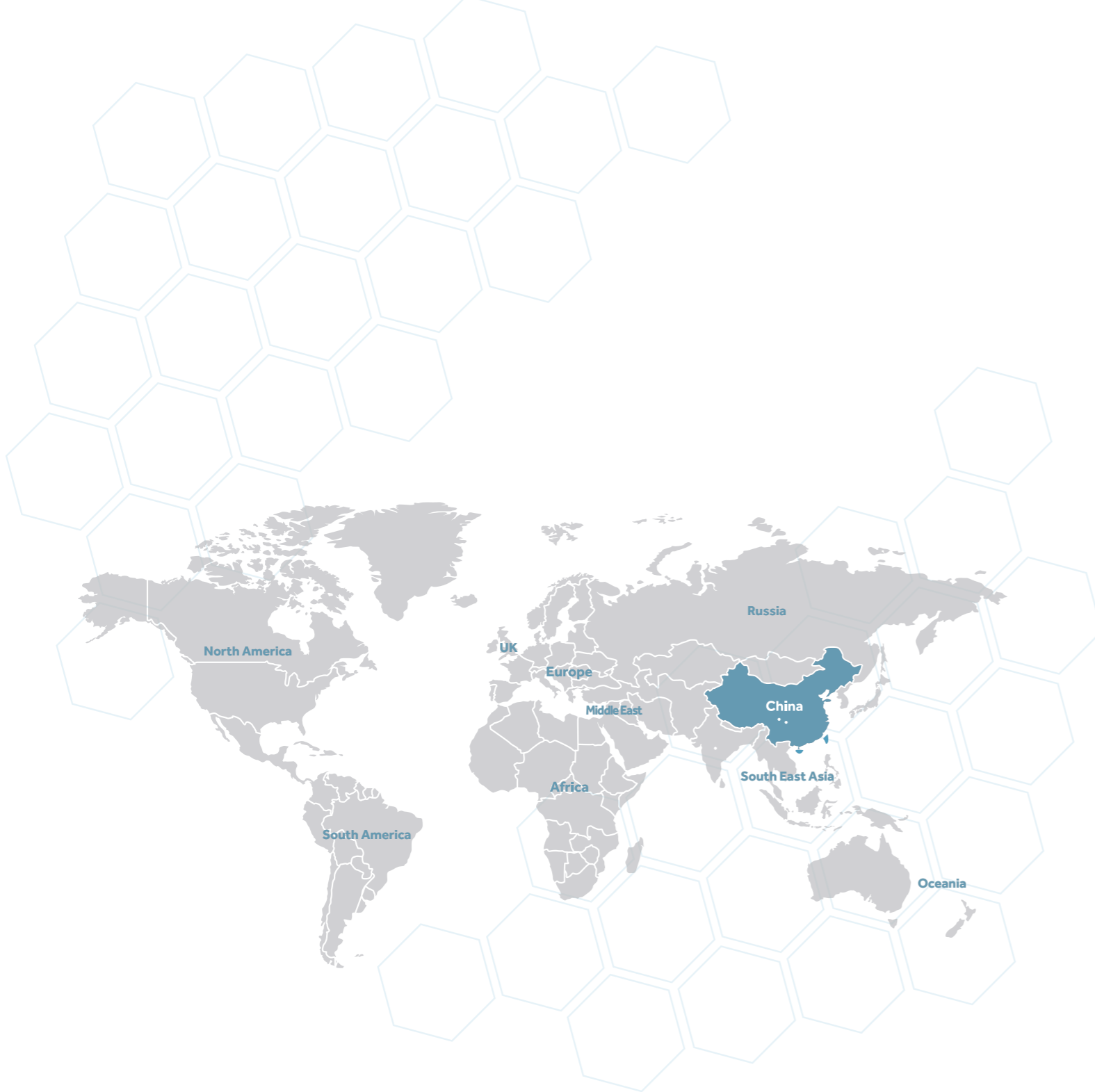


Pharmacy Refrigerator Solutions



JAN 2021



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Note: If a slight difference occurs between pictures and actual products, please refer to actual products. Our company reserves the right of final interpretation of this brochure, please contact us for any further information if required.





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Main Application

This product is designed to store blood plasma, biological products, vaccines, medicines and chemical reagents.



HYCD-469



Temperature Control



Security Guaranteed



Variable Frequency Hydrocarbon Refrigeration System



Data Storage

Combined Refrigerator and Freezer

Key Features

Temperature Control

- Refrigerator temperature ranges from 2°C to 8°C.
- Freezer temperature ranges adjustable from -10°C to -40 °C.
- Microprocessor temperature control accuracy 0.1°C (refrigerator) and 1°C (freezer) .

Safety

- Separate doors for refrigerator and freezer with independent lock catches, dual padlocks available to ensure product safety.
- Multiple alarm functions including high or low temperature, sensor error, high ambient temp, power failure and remote alarm.
- Two types of alarm indications: audible buzzer and visible flashing light.

Refrigerator System

- Refrigerator and freezer have independently controlled variable frequency refrigeration systems, standalone displays as well as separate on and off controls.
- Robust compressor system operating with environmentally friendly hydrocarbon refrigerant.
- Refrigerator with high quality and high efficiency cooling fan provides better temperature uniformity and stability.

Ergonomic Design

- Large LED screen display for excellent user interface experience.
- USB port automatically saves temperature data for up to 10 years for convenient inquiry and record keeping.
- Optional printer to simultaneously print out temperatures of the refrigerator and the freezer.
- Four casters and two levelling legs design for ease of maneuvering.

Specifications

		Model	HYCD-469	
Technical Data	Cabinet Type	Upright		
	Climate Class	N		
	Cooling Type	Refrigerator: Forced air cooling Freezer: Direct cooling		
	Defrost Mode	Refrigerator: Auto Freezer: Manual		
	Refrigerant	HC		
	Sound Level (dB(A))	45		
Performance	Cooling performance (°C)	Freezer: -40		
	Temperature Range (°C)	Refrigerator 2-8 Freezer -10~-40		
Control	Controller	Microprocessor		
	Display	LED		
Electrical Data	Power Supply (V/Hz)	220-240/50/60		
	Power (W)	580		
	Electrical Current (A)	3		
Dimensions	Capacity (L/Cu.Ft)	Refrigerator:269/9.5 Freezer: 200/7.1		
	Net/Gross Weight (approx)	kg	176/207	
		lbs	388.0/456.4	
	Interior Dimensions (W*D*H)	mm	Refrigerator: 593*585*800 Freezer: 553*545*660	
		in	Refrigerator: 23.3*23.0*31.5 Freezer: 21.8*21.5*26.0	
Dimensions	Exterior Dimensions (W*D*H)	mm	738*834*1975	
		in	29.1*32.8*77.8	
	Packing Dimensions (W*D*H)	mm	800*875*2100	
		in	31.5*34.4*82.7	
	Container load (20/40/40'H)	14/30/30		
Alarms	High/Low Temperature	Y		
	Remote Alarm	Y		
	Power Failure	Y		
	Sensor Error	Y		
	Low Battery	Y		
Accessories	High Ambient Temp	Y		
	Caster	Y		
	Foot	Y		
	Porthole	Y		
	Shelves/Drawers	Refrigerator: 3/0 Freezer: 3/0		
Others	USB Interface	Y		
Others	Certification	CE		



HYCD-282



HYCD-282A



Combined Refrigerator and Freezer

Excellent Performance

- Refrigerator compartment temperature range: 2°C to 8°C
- Adjustable temperature range for freezer compartment: -20°C to -40°C

Separately Controlled Refrigerator and Freezer

- USB port for data download
- Capable of recording temperature data for up to ten years
- Independent display for refrigerator and freezer sections
- Adjustable shelving in refrigerator and freezer has drawers
- Multiple alarms to detect malfunctions

Specifications

	Model	HYCD-282	HYCD-282A	
Technical Data	Cabinet Type	Upright		
	Climate Class	N		
	Cooling Type	Refrigerator: Forced Air Cooling	Refrigerator: Forced Air Cooling	
		Freezer: Direct Cooling	Freezer: Direct Cooling	
	Defrost Mode	Refrigerator: Auto Freezer: Manual	Refrigerator: Auto Freezer: Manual	
Refrigerant	CFC-Free			
Performance	Sound Level (dB(A))	43		
	Cooling Performance (°C)	Freezer: -40		
	Temperature Range (°C)	2-8/-20~-40		
Control	Controller	Microprocessor		
	Display	LED		
Electrical Data	Power Supply (V/Hz)	220-240/50	220-240/50 208-230/60	
	Power (W)	400	400 400	
	Electrical Current (A)	2.8	2.8 2	
Dimensions	Capacity (L/Cu.Ft)	Refrigerator: 185/6.5		
		Freezer: 97/3.4		
	Net/Gross Weight (approx)	kg	145/160	
		lbs	320.0/352.7	
	Interior Dimensions (W*D*H)	mm	Refrigerator: 605*510*720	Refrigerator: 605*510*720
			Freezer: 515*465*440	Freezer: 515*465*440
		in	Refrigerator: 23.8*20.0*28.3	Refrigerator: 23.8*20.0*28.3
			Freezer: 20.3*18.3*17.3	Freezer: 20.3*18.3*17.3
	Exterior Dimensions (W*D*H)	mm	736*660*1810	
		in	29.0*26.0*71.3	
Packing Dimensions (W*D*H)	mm	775*720*1930		
	in	30.5*28.3*76		
Container Load (20'/40'/40'H)		21/45/45		
Alarms	High/Low Temperature	Y		
	Remote Alarm	Y		
	Power Failure	Y		
	Sensor Error	Y		
	Low Battery	Y		
	High Ambient Temp	Y		
Accessories	Caster	Y		
	Foot	Y		
	Porthole	Y		
	Shelves/Drawers	Refrigerator: 3/1 Freezer: 0/2	Refrigerator: 3/1 Freezer: 0/2	
	USB Interface	Y		
Others	Certification	CE	CE /	

Product appearance and specifications are subject to change without notice

Smart Management of Reagents Starts with IoT Technology

From manufacturer to patients, the entire process is automatically and smartly controlled.



HYC-390R



Smart IoT system means simple, precise and effective reagent storage management

Automatic management of reagents is a reality with the utilization of the RFID based smart IoT management system



Smart RFID label



Smart RFID shelf



Industrial-grade IoT network module group

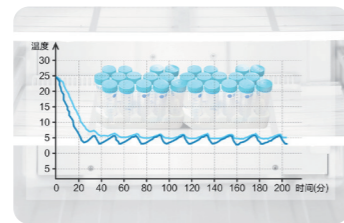


Secure, authorized access management

NFC authorized management system is traceable



Statistical analysis of data and precise verification for compliance



Precise temperature control for ultimate safety of test reagents

2°C- 8°C storage temperature and real time monitoring of cabinet temperature



Smart alerts for maintenance and product management

Smart alarm and alerts for abnormal temperature, low storage level alerts, deadline for clinical trials



Manpower savings

Smart process control improves accuracy and efficiency, saving manpower for reagent management.



Optimized procurement process reduces waste

Accurately and timely control of reagent usage. Make intelligent procurement decisions to reduce shortage and reduce inventory.



Rigorous reagent management to reduce risk

Constant temperature for reagent storage
Automatically trigger temperature alarms when fridge reaches critical temperature, ensuring safety of reagent usage.

RFID Refrigerator



HYC-509R

- Automatic inventory check, one-key query, instantly and efficiently.
- High definition LCD touch screen, automatic record of warehouse-in and warehouse-out information. It can always trace who, when and where to access reagent information, which is convenient and accurate, and it can achieve management visualization.
- Automatic early warning of the validity period, first in, first out, to eliminate waste.
- The system automatically generate order, which saves time and effort.
- One-click report generation, efficient and accurate.
- The platform will real-time monitor equipment operating status, safe and secure.
- Web-side reagent management, assist users in the whole process of data collection and analysis, accurate accounting, scientific guidance, and one platform can manage multiple equipment.

Specifications

Model		HYC-390R	HYC-509R	
Technical Data	Cabinet Type	Upright, single door	Upright, single glass door	
	Climate Class	N	N	
	Cooling Type	Forced air cooling	Forced air cooling	
	Defrost Mode	Auto	Auto	
	Refrigerant	HC	HC	
	Sound level (dB(A))	43	40	
Performance	Cooling performance (°C)	±3	±2	
	Temperature Range (°C)	2-8°C	2-8	
Control	Controller	Microprocessor	Microprocessor	
	Display	LED	Touch	
Electrical Data	Power Supply (V/Hz)	208-230/50/60	208-230/50/60	
	Power (W)	225	400	
	Electrical Current (A)	1.2	2	
Dimensions	Capacity (L/Cu.Ft)	390/ 13.77	509/17.97	
	Net/Gross Weight (approx)	kg	116/139	180/215
		lbs	255.73/306.44	396/473
	Interior Dimensions (W*D*H)	mm	530*555*1380	593*585*1500
		in	20.9*21.9*54.3	23.21*22.9*58.8
	Exterior Dimensions (W*D*H)	mm	720*710*1965	693*813*1981
		in	28.3*28*77.4	27.1*31.9*77.7
	Packing Dimensions (W*D*H)	mm	792*790*2110	800*875*2100
in		31.2*31*82.9	31.3*34.3*82.3	
Alarms	Container load (20'/40'/40'H)	14/45/45	12/24/24	
	High/Low Temperature	Y	Y	
	Remote Alarm	Y	Y	
	Power Failure	Y	Y	
	Sensor Error	Y	Y	
	Low Battery	Y	Y	
	Door Ajar	Y	Y	
Accessories	Caster	Y	Y	
	Foot	Y	Y	
	Porthole	Y	Y	
Others	Shelves	5	Y	
	Certification	CE	CE	

R suffix - RFID with IoT model for reagent management
Product appearance and specifications are subject to change without notice

Pharmacy Refrigerator with TEC

Pharmacy Refrigerator with Thermoelectric Cooler (TEC) Technology

The refrigerator can be used to store vaccines, medicines and laboratory products at 2°C to 8°C temperature range in pharmaceutical companies, laboratories, clinics, and hospitals.



HYC-51BF



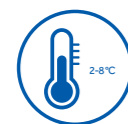
With TEC technology for super low noise and minimum vibration

- Military grade TEC refrigeration technology (also called a Peltier device)
- Low noise DC fan
- Less than 35dB(A) sound level



Multi temperature protection

- Air temperature sensor for control
- Display sensor for displaying the actual temperature
- Overtemp or high-end temperature sensor to protect TEC module for a service life of more than 10 years



Microprocessor temperature control for 2°C to 8°C

- Forced air cooling with $\pm 1^\circ\text{C}$ temperature uniformity and display accuracy of 0.1°C
- Maximum power for rapid temperature pull-down

Pharmacy Refrigerator with TEC

Safer by Design

Theory of Operation: Thermoelectric cooling uses the Peltier effect to create a heat flux at the junction of two different types of materials. The cooling power is controlled by pulsing signals to TEC module for tight temperature control of $\pm 1^\circ\text{C}$.



The Advantage of Compressor Free Refrigerator

TEC Technology	VS	Conventional Compressor
 <ul style="list-style-type: none"> • Sustainable & non-toxic refrigeration • Energy efficient and low waste heat • No pumps or motors for quiet operation • No moving/mechanical parts for improved reliability and longevity • Compact design allows more storage capacity • Lab & Clean room ready dust-free operation 		 <ul style="list-style-type: none"> • Refrigerant required • Less energy efficient • Sound producing motors and compressors • Moving mechanical parts • Larger footprint, demands more valuable space • Expensive filtration required



Power Protection Switch and Removable Power Cord

- Dual safety protections
- Power cord plug accessible on exterior of unit
- Suitable for on and under counter installation
- Universal power supply 220V/115V at 50/60Hz



Frost Free Cooling Fins on TE Module

- Defrost process initiated after accumulated run hours
- Temperature does not exceed 7°C during defrost process



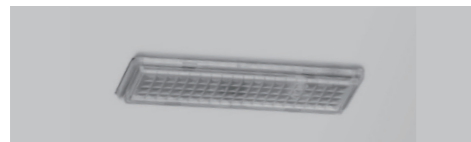
Natural Evaporation of Condensate

- Interior water is drained through a small hole into a stainless steel catch box. Condensate water is evaporated by warm air flow



Self-closing Doors

- Door stays opened at 90 degree
- Door automatically swings closed at less than 90 degree to reduce moisture infiltration
- Tested to 100,000 times door opening and closing



LED Lighting

- Led lights illuminate interior



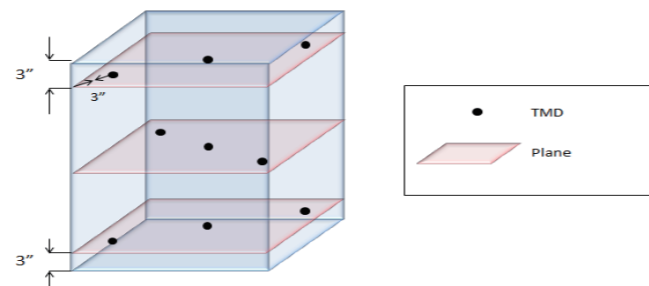
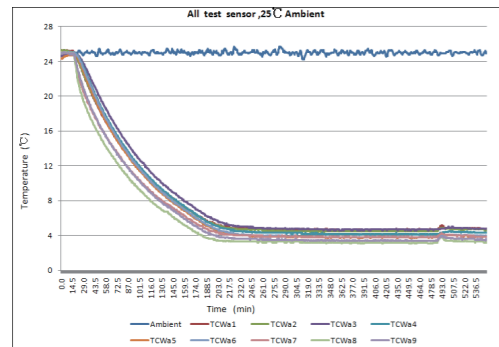
Removable Trays with ABS Material

- Manufactured using chemical and thermally stable ABS material
- Adjustable three-tray design
- Each tray holds thirty 50*50*50 mm storage boxes, totalling 150 boxes
- Trays designed for over 500,000 movements
- Weight limit at 100 kg/sq. m



Low noise DC fan, sound level less than 35dB (A)

Typical Performance Characteristics at 25°C Ambient



Specifications

Model		HYC-51BF	
Technical Data	Cabinet Type	Upright	
	Climate Class	N	
	Cooling Type	Force Air Cooling	
	Sound Level (dB(A))	34	
Performance	Cooling Performance (°C)	±2	
	Temp Range (°C)	2-8	
Control	Controller	Microprocessor	
	Display	LCD	
	LCD Size (in)	7	
Electrical Data	Power Supply (V/Hz)	115/60	220-240/50
	Power Input (W)	165	
	Rated Current (A)	1.5	0.8
Dimensions	Net/Gross Weight (approx)	kg	50/57
		lbs	110.3/125.8
	Interior Dimensions (W*D*H)	mm	380*300*470
		in	14.96*11.81*18.5
	Exterior Dimensions (W*D*H)	mm	525*565*720
		in	20.7*22.2*28.3
Packing Dimensions (W*D*H)	mm	550*600*883	
	in	21.7*23.6*34.8	
Container Load (20'/40'/40'H)	72/152/152		
Alarms	High/Low Temp	Y	
	Sensor Error	Y	
	Door Ajar	Y	
	Alarm Mode	Audible Buzzing and Alarm Window	
	Level Leg	4	
Accessories	Tray	3	
	Data Log	USB	
Others	Certification	UL	CE

Product appearance and specifications are subject to change without notice

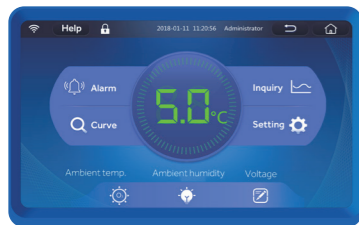
Pharmacy Refrigerator

Advanced Pharmacy Refrigerator with Touchscreen



HYC-1099TF HYC-509T HYC-1099T HYC-509TF

Product Advantages



Intelligent and Interactive Touchscreen Control

- An intelligent, high definition liquid crystal touch screen control system, allows users to view temperature graphs, operation status, events and alarm records



Data Storage

- Standard USB, optional printer, capable of storing 10 years' temperature data, historical data can be checked and traced



Secure Access and Authorized Management

- NFC authority system works with a magnetic lock system to ensure product safety. In addition, access to unit and stored products is traceable
- Finger print module is optional for additional safety

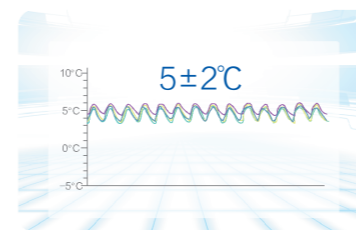
Pharmacy Refrigerator

Advanced Pharmacy Refrigerator with LED Display



HYC-1099F HYC-509 HYC-1099 HYC-509F

Product Advantages



Precise Temperature Control and Reliable Operation

- Advanced control system
- Six sensors
- High efficiency air flow system
- Precise temperature control
- Uniform temperature distribution
- VFD driven compressor
- High-efficiency fan motor



Multiple Features for Sample Security And Protection

- Audible buzzer and visual flashing lights for alarm system as standard
- Alarm system includes door ajar, temperature, sensor malfunction, battery, loss of power and clogged condenser
- Remote alarm contact terminals as standard
- Supplied with mechanical lock as standard, there is an optional magnetic lock for added product safety



Environmentally Friendly Refrigeration

- R600a Hydrocarbon refrigeration system does not have any negative impacts of the ozone layer, with zero global warming effect

Specifications

Model		HYC-509	HYC-509F	HYC-509T	HYC-509TF	HYC-1099	HYC-1099F	HYC-1099T	HYC-1099TF	
Technical Data	Cabinet Type	Upright, single glass door	Upright, single solid door	Upright, single glass door	Upright, single solid door	Upright, double glass door	Upright, double solid door	Upright, double glass door	Upright, double solid door	
	Climate Class	N	N	N	N	N	N	N	N	
	Cooling Type	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling	
	Defrost Mode	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	
	Refrigerant	HC	HC	HC	HC	HC	HC	HC	HC	
	Sound Level (dB(A))	40	40	40	40	43	43	43	43	
Performance	Temperature Range (°C)	2-8	2-8	2-8	2-8	2-8	2-8	2-8	2-8	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
	Display	LED	LED	Touch	Touch	LED	LED	Touch	Touch	
Electrical Data	Power Supply (V/Hz)	208-230/50/60	208-230/50/60	208-230/50/60	208-230/50/60	208-230/50/60	208-230/50/60	208-230/50/60	208-230/50/60	
	Power (W)	370	315	370	315	470	440	470	440	
	Electrical Current (A)	1.85	1.75	1.85	1.75	2.5	2.25	2.5	2.25	
Dimensions	Capacity (L/Cu.Ft)	509/17.97	509/17.97	509/17.97	509/17.97	1099/38.5	1099/38.5	1099/38.5	1099/38.5	
	Net/Gross Weight (approx)	kg	180/215	175/210	180/215	175/210	340/400	330/390	340/400	330/390
		lbs	396/473	385/462	396/473	385/462	748/1000	726/858	748/1000	726/858
	Interior Dimensions (W*D*H)	mm	593*585*1500	593*585*1500	593*585*1500	593*585*1500	1295*585*1500	1295*585*1500	1295*585*1500	1295*585*1500
		in	23.21*22.9*58.8	23.21*22.9*58.8	23.21*22.9*58.8	23.21*22.9*58.8	50.7*22.9*58.8	50.7*22.9*58.8	50.7*22.9*58.8	50.7*22.9*58.8
	Exterior Dimensions (W*D*H)	mm	693*813*1981	693*813*1981	693*813*1981	693*813*1981	1395*813*1981	1395*813*1981	1395*813*1981	1395*813*1981
		in	27.1*31.9*77.7	27.1*31.9*77.7	27.1*31.9*77.7	27.1*31.9*77.7	54.7*31.9*77.7	54.7*31.9*77.7	54.7*31.9*77.7	54.7*31.9*77.7
Packing Dimensions (W*D*H)	mm	800*875*2100	800*875*2100	800*875*2100	800*875*2100	1525*900*2100	1525*900*2100	1525*900*2100	1525*900*2100	
	in	31.3*34.3*82.3	31.3*34.3*82.3	31.3*34.3*82.3	31.3*34.3*82.3	59.8*35.3*82.3	59.8*35.3*82.3	59.8*35.3*82.3	59.8*35.3*82.3	
	Container Load (20'/40'/40'H)	12/24/24	12/24/24	12/24/24	12/24/24	6/12/12	6/12/12	6/12/12	6/12/12	
Functions	High/Low Temperature	Y	Y	Y	Y	Y	Y	Y	Y	
	Remote Alarm	Y	Y	Y	Y	Y	Y	Y	Y	
	Power Failure	Y	Y	Y	Y	Y	Y	Y	Y	
	Sensor Error	Y	Y	Y	Y	Y	Y	Y	Y	
	Low Battery	Y	Y	Y	Y	Y	Y	Y	Y	
	Door Ajar	Y	Y	Y	Y	Y	Y	Y	Y	
Accessories	Caster	Y	Y	Y	Y	Y	Y	Y	Y	
	Foot	Y	Y	Y	Y	Y	Y	Y	Y	
	Porthole	Y	Y	Y	Y	Y	Y	Y	Y	
	Shelves/Drawers	Y/Optional	Y/Optional	Y/Optional	Y/Optional	Y/Optional	Y/Optional	Y/Optional	Y/Optional	
	USB Interface	Y	Y	Y	Y	Y	Y	Y	Y	
Others	Certification	CE	CE	CE	CE	CE	CE	CE	CE	

T suffix - Advanced with touchscreen

Product appearance and specifications are subject to change without notice

Pharmacy Refrigerator

Standard Pharmacy Refrigerator

The Haier pharmacy refrigerators are suitable for pharmacies, drug stores, pharmaceutical companies, hospitals, clinics and other pharmaceutical storage areas such as storage and logistics.



Microprocessor control panel and digital display



Permanently lubricated condenser fan motor

Locks



Hermetically sealed compressor

Access port

Door handles

Dual-pane glass door design, convenient and aesthetic

Leveling leg and caster

HYC-1378

Pharmacy Refrigerator

Standard Pharmacy Refrigerator

Durable and Reliable - Key Features

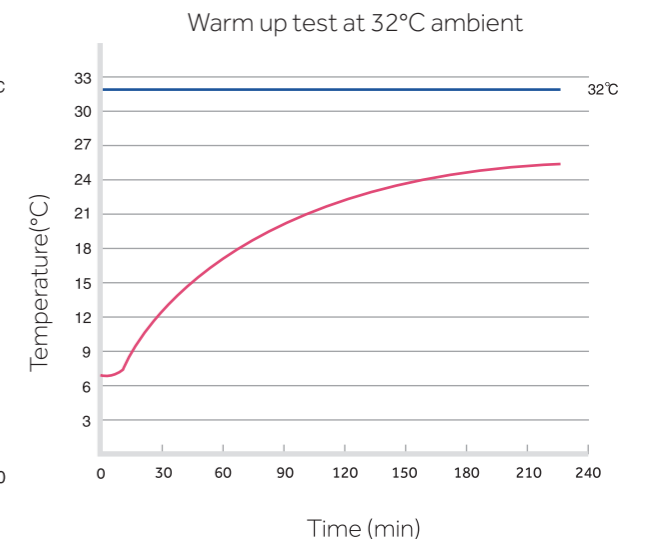
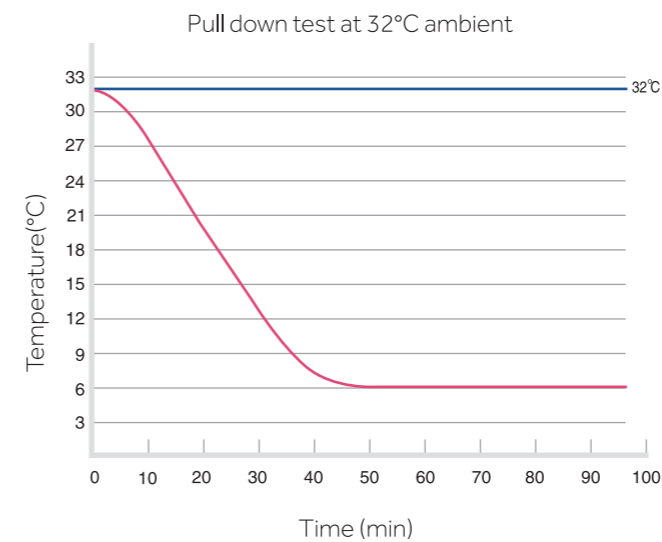
- Energy efficient hydrocarbon (HC) refrigeration system
- Permanently lubricated cooling fan for safety and longevity
- Forced-air cooling with optimized air distribution system designed to achieve maximum temperature uniformity and stability
- Optimized refrigeration system design for more effective cooling and speedy recovery
- Temperature variation within $\pm 3^{\circ}\text{C}$
- Chamber temperature range 2-8 $^{\circ}\text{C}$
- Microprocessor control with large digital display. Adjustable temperature with an increment of 0.1 $^{\circ}\text{C}$
- Wide voltage tolerance suitable for regions with an unstable voltage supply
- Designed for ambient temperature 10 $^{\circ}\text{C}$ -32 $^{\circ}\text{C}$ with humidity below 85%

Safety

- Equipped with a complete temperature alarm system featuring audible buzzer and visible flashing light
- Capable of alerting failures due to high or low temperature, sensor error, door ajar, remote alarm, power failure and low battery

Ergonomic Design

- Optimized space utilization design with multi-level and adjustable shelf height to accommodate the different storage requirements of varied sized pharmaceutical products.
- Safety lock to prevent unauthorized access
- Caster design and levelling feet
- Interior light



Pharmacy Refrigerator

Standard Pharmacy Refrigerator

New and improved Haier pharmacy refrigerators now offer an improved temperature profile and more user-friendly control features.



HYC-390

Pharmacy Refrigerator

Standard Pharmacy Refrigerator

Technical Advantages

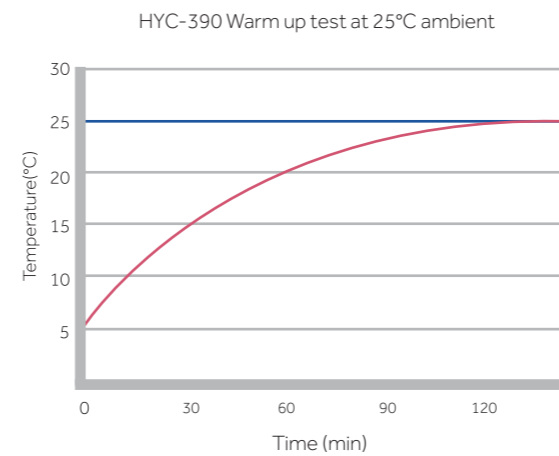
- Accurate temperature control maintains 2°C to 8°C throughout the unit with an adjustable increment at 0.1°C
- Improved user interface includes a data storage capacity of up to 10 years
- Oversized air-cooled condenser improves the robustness of the refrigeration system, reliability and refrigeration efficiency

Ergonomic Design

- The temperature data of the newly improved storage management system is downloadable from the USB port
- Traceability of temperature data
- Heated double-pane glass door allows a clear view of stored products without condensation at 32°C and 85% relative humidity ambient conditions
- LED interior light saves energy and provides bright lighting of interior for easy product location and identification
- Shelves with label holders meet demands required for quick and effective product archiving and retrieving

Safety

- Microprocessor control with digital display
- Temperature uniformity within 3°C
- Malfunction alarms include high/low temperature, door ajar, sensor error, power failure, low battery and remote alarm interface



Pharmacy Refrigerator

Standard Pharmacy Refrigerator

Used for storage of biological products, vaccines, drugs, reagents, etc., the unit is widely used in pharmacies, pharmaceutical factories, hospitals, CDC, laboratories as key examples.

Material:

HIPS adsorption liner, sprayed steel case

Shelves:

Standard with 6 shelves



Caster and foot:

Standard equipped with 4 universal casters and 2 adjustable feet, ensure the refrigerator moving and fixed



*Optional: USB, printer, RS485/232 interface

HYC-410

Pharmacy Refrigerator

Standard Pharmacy Refrigerator

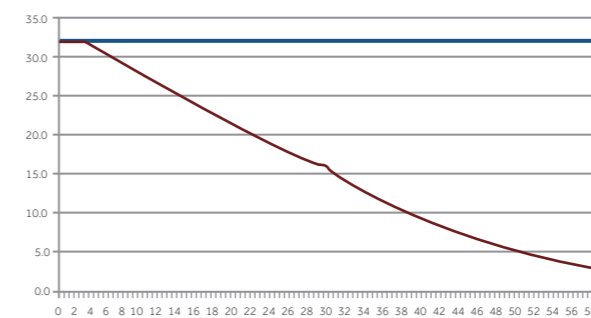
Superior Performance

- Microcomputer controller, LED temperature display, accuracy 0.1°C
- Fin type evaporator and double fan system, temperature uniformity $\pm 2^{\circ}\text{C}$
- R600a hydrocarbon refrigerant, LBA foaming agent, energy saving and environmental protection
- Optimized system and structure design, noise down to 41 dB(A)
- Panoramic glass door, LED lighting, goods are clear at a glance
- Heated door to prevent condensation
- Standard with 1 test hole, convenient for user to test

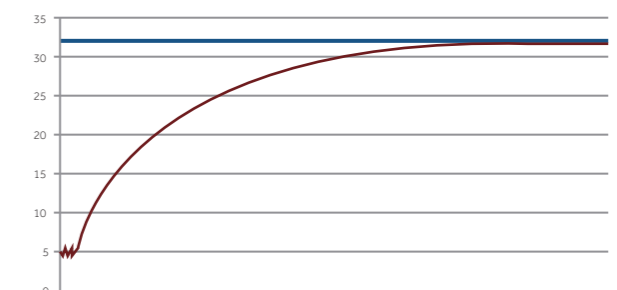
Safe

- Equipped with built-in lock and security latch to accommodate a padlock, safe and reliable storage
- Multiple alarms: High and low temperature, sensor error, power failure, low battery, door ajar, high ambient temperature and communication fault alarm
- Alarm mode: audible buzzer and flashing light, remote alarm. The alarm will continue for 24 hours after power failure

Cool down curve



Warm up curve



At 32°C ambient temperature, the cooling time is about 50 minutes, the heating time is about 8 hours

- Ambient Temp.
- Test point Temp.

The product is applicable to pharmacies, pharmaceutical factories, quarantine stations, health centers and hospitals, used to store biological products and those need to be stored at a temperature between 2-8°C.



HYC-639

Energy Saving

- 70mm thick foam layer, optimized refrigeration system, low power consumption, less than 6 kWh per day.

Environmentally-friendly

- Hydrocarbon refrigerant, truly completely environmental protection refrigeration system.
- Polyurethane insulation layer, the whole series adopts European ROHS directive materials, environmental protection.

Better Uniformity

- Finned evaporator, double fan system.
- The temperature is more uniform, the characteristic point temperature uniformity is $\pm 2^{\circ}\text{C}$.

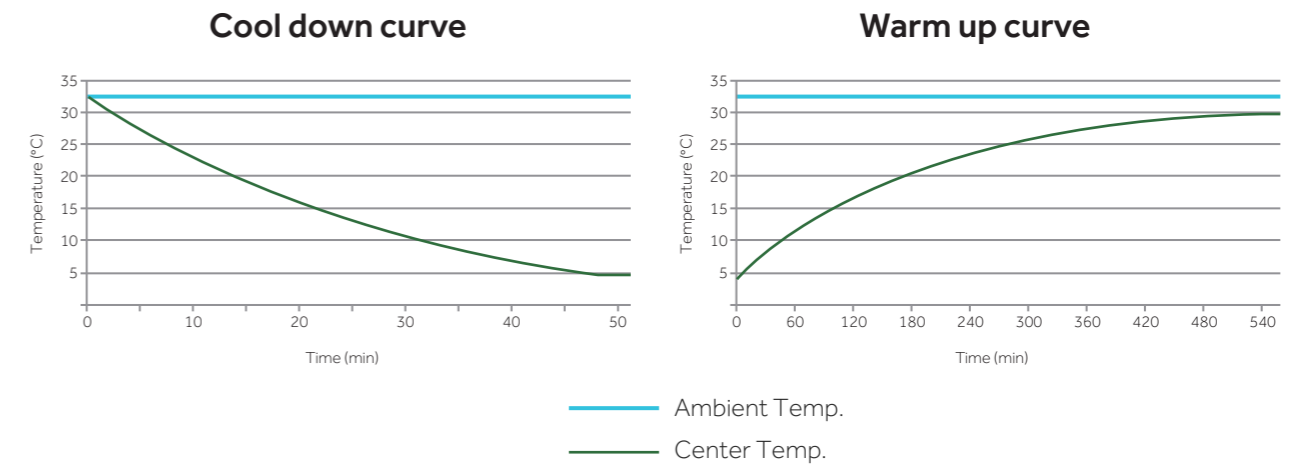
Low Noise

- Optimized system and structure noise reduction design, noise 43 dB (A).

Multi-channel Sensor, Reliable and Safe

- Equipped with upper display sensor, lower display sensor, defrosting sensor, control sensor, ambient temperature sensor, condenser dirty sensor.

Typical Performance Characteristics in 32°C Ambient Temp.



Product Details

- **Microprocessor control system**
Microprocessor electronic temperature controller, LED temperature display, display precision is 0.1°C
- **Insulation**
70mm thick foam layer, to provide better insulation effect
- **Porthole**
Standard equipped with a porthole, convenient for users to test and use
- **Security lock**
Equipped with safety lock with 2 keys for drug storage safety
- **Temperature recorder**
Standard USB
Optional printer, RS485 interface, etc
- **Material**
The liner is sprayed steel plate for easy cleaning
- **Casters and leveling leg design**
Standard with 4 universal casters and 2 height adjustable feet to ensure ease of movement and stability
- **Shelve**
Standard with 4 shelves, optional 6 shelves



*Optional: stainless steel liner, printer, RS485 interface, touch screen

Easy to Install, Ergonomic and Reliable

Haier are pioneers in under-counter pharmacy refrigerator design and manufacturing, offering ultra-low noise system, safety lock, complete alarm system for sample safety and protection.



HYC-118

HYC-118A

Reliability and Key Features

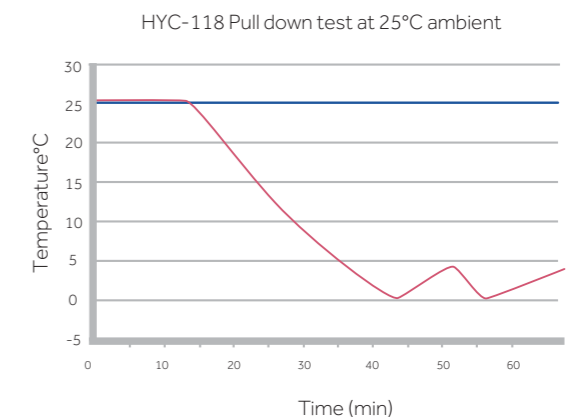
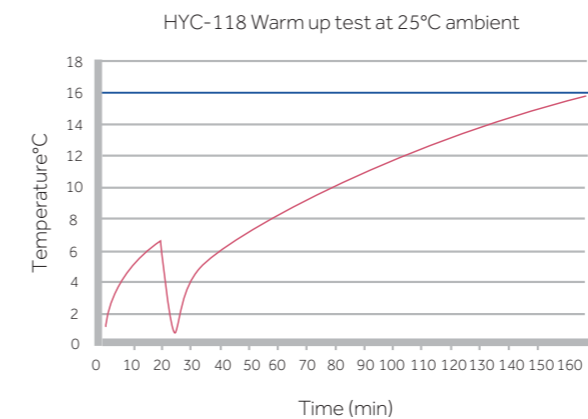
- Energy efficient hydrocarbon (HC) refrigeration system
- Permanently lubricated cooling fan for safety and longevity
- Forced-air cooling with optimized air distribution system designed to achieve maximum temperature uniformity and stability
- Optimized refrigeration system design for more effective cooling and speedy recovery
- Temperature variation within $\pm 3^{\circ}\text{C}$
- Chamber temperature range $2\text{--}8^{\circ}\text{C}$
- Microprocessor control, digital display and temperature adjustment with an increment of 0.1°C
- Designed for ambient temperature $10\text{--}32^{\circ}\text{C}$ with humidity below 70%

Safety

- Equipped with a complete temperature alarm system featuring audible buzzer and visual flashing light
- Capable of alerting failures due to high and low temperature, sensor error, door ajar, power failure, and remote alarm interface

Ergonomic Design

- Interior LED light
- Safety lock to prevent unauthorized access



Specifications



Model	HYC-68		HYC-68A		HYC-118		HYC-118A		HYC-290		HYC-390		HYC-410		HYC-639		HYC-390F		HYC-610		HYC-940		HYC-940F		HYC-1378			
Technical Data	Cabinet Type	Upright, Solid Door		Upright, Glass Door		Upright, Solid Door		Upright, Glass Door		Upright, Single Door		Upright, Single Door		Upright, single door		Upright, glass door		Upright, Single Door		Upright, Single Door		Upright, Double Glass Door		Upright, Double Solid Door		Upright, double door		
	Climate Class	N		N		N		N		N		N		N		ST		N		N		N		N		N		
	Cooling Type	Forced Air Cooling		Forced Air Cooling		Forced Air Cooling		Forced Air Cooling		Forced Air Cooling		Forced Air Cooling		Forced air cooling		Forced air cooling		Forced Air cooling		Forced Air Cooling		Forced Air Cooling		Forced Air Cooling		Forced Air Cooling		
	Defrost Mode	Auto		Auto		Auto		Auto		Auto		Auto		Auto		Auto		Auto		Auto		Auto		Auto		Auto		
	Refrigerant	HC		HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	
	Sound Level (dB(A))	41		41		41		41		43	43	43	43	41	43	43	43	43	43	45	43	45	43	45	43	43	45	
Performance	Temperature Range (°C)	2-8		2-8		2-8		2-8		2-8		2-8		2-8		2-8		2-8		2-8		2-8		2-8		2-8		
Control	Controller	Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		
	Display	LED		LED		LED		LED		LED		LED		LED		LED		LED		LED		LED		LED		LED		
Electrical Data	Power Supply (V/Hz)	220-240/50	115/60	220-240/50	115/60	220-240/50/60	115/60	220-240/50/60	115/60	220-240/50/60	115/60	220-240/50/60	115/60	220-240/50	220-240/50	220-240/50/60	115/60	220-240/50/60	115/60	220-240/50/60	115/60	220-240/50/60	115/60	220-240/50/60	220-240/50/60	115/60	220-240/50/60	115/60
	Power (W)	140	150	140	150	190	190	230	230	200	350	240	360	350	410	210	115	550	500	700	850	500	850	500	600	850	600	850
	Electrical Current (A)	0.85	1.7	0.85	1.7	1.4	1.4	1.5	1.5	2.2	1.8	2.4	1.8	2.0	2.15	1	1.5	3	6.2	3.5	7.5	2.7	7.5	2.7	3	7.5	3	7.5
Dimensions	Capacity (L/Cu.Ft)	68/2.4		68/2.4		118/4.2		118/4.2		290/10.2		390/13.8		410		639/28.3		390/13.8		610/21.6		890/31.4		890/31.4		1378/48.7		
	Net/Gross Weight (approx)	kg		kg		kg		kg		kg		kg		kg		kg		kg		kg		kg		kg		kg		
		lbs		lbs		lbs		lbs		lbs		lbs		lbs		lbs		lbs		lbs		lbs		lbs		lbs		
	Interior Dimensions (W*D*H)	mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		
		in		in		in		in		in		in		in		in		in		in		in		in		in		
	Exterior Dimensions (W*D*H)	mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		
		in		in		in		in		in		in		in		in		in		in		in		in		in		
	Packing Dimensions (W*D*H)	mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		
		in		in		in		in		in		in		in		in		in		in		in		in		in		
	Container Load (20'/40'/40'H)	108/228/228		108/228/228		48/102/102		48/102/102		21/42/42		21/42/42		23/48/48		12/26/26		21/42/42		12/26/26		8/18/18		8/18/18		6/12/12		
Alarms	High/Low Temperature	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		
	Remote Alarm	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		
	Power Failure	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		
	Sensor Error	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		
	Low Battery	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		
	Door Ajar	Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		
Accessories	Caster	Y		Y		Y		Y		Y		Y		4		4		Y		Y		Y		Y		Y		
	Foot	Y		Y		Y		Y		Y		Y		2		2		Y		Y		Y		Y		Y		
	Porthole	Y		Y		Y		Y		Y		Y		Y		1		Y		Y		Y		Y		Y		
	Shelves/Drawers	2/1		2/1		3/1		3/1		5/-		7/-		6		4(6 optional)		7/-		6/-		12/-		12/-		12/-		
	USB Interface	Optional		Optional		/		/		Y		Optional		Optional		Y		Optional		Y		Optional		Optional		Optional		
	Printer	N/A		N/A		N/A		N/A		Optional		Optional		Optional		Optional		Optional		N/A		Optional		Optional		Optional		
	Temperature Recorder	N/A		N/A		N/A		N/A		Optional		Optional		N/A		N/A		Optional		Optional		Optional		Optional		Optional		
Others	Certification	CE	UL	CE	UL	CE	UL	CE	UL	UL	CE	UL	CE	ENERGY STAR	CE	ENERGY STAR	CE	ENERGY STAR	CE	UL	CE	UL	CE	UL	CE	CE	UL	