

# Pharmacy Refrigerator Solutions



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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.



# CONTENT



Combined Refrigerator and Freezer .....	03
RFID Refrigerator .....	07
Advanced Pharmacy Refrigerator with LED Display .....	09
Standard Pharmacy Refrigerator .....	13
Under-counter Pharmacy Refrigerator .....	23

## 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

## 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.

## Combined Refrigerator and Freezer

### 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	HYCD-469A	
Technical Data	Cabinet Type	Upright	Upright	
	Climate Class	N (16-32°C)	N (16-32°C)	
	Cooling Type	Refrigerator: Forced air cooling Freezer: Direct cooling	Refrigerator: Forced air cooling Freezer: Direct cooling	
	Defrost Mode	Refrigerator: Auto / Freezer: Manual	Refrigerator: Auto / Freezer: Manual	
	Refrigerant	Refrigerator: R600a / Freezer: R290	Refrigerator: R600a / Freezer: R290	
	Sound Level (dB(A))	45	45	
Performance	Temperature Range (°C)	Refrigerator: 2-8 / Freezer: -10~-40	Refrigerator: 2-8 / Freezer: -10~-40	
Control	Controller	Microprocessor	Microprocessor	
	Display	LED	LED	
Electrical Data	Power Supply (V/Hz)	220-240/50/60	220-240/50/60	
	Power (W)	640	640	
	Electrical Current (A)	3	3	
Dimensions	Capacity (L/Cu.Ft)	Refrigerator: 269/9.5; Freezer: 200/7.1	Refrigerator: 269/9.5; Freezer: 200/7.1	
	Net/Gross Weight (approx)	kg	176/207	176/207
		lbs	388.0/456.4	388.0/456.4
	Interior Dimensions (W*D*H)	mm	Refrigerator: 593*585*800 Freezer: 553*545*660	Refrigerator: 593*585*800 Freezer: 553*545*660
		in	Refrigerator: 23.3*23.0*31.5 Freezer: 21.8*21.5*26.0	Refrigerator: 23.3*23.0*31.5 Freezer: 21.8*21.5*26.0
	Exterior Dimensions (W*D*H)	mm	738*834*1975	738*834*1975
		in	29.1*32.8*77.8	29.1*32.8*77.8
	Packing Dimensions (W*D*H)	mm	800*875*2100	800*875*2100
in		31.5*34.4*82.7	31.5*34.4*82.7	
	Container Load (20'/40'/40'H)	14/28/28	14/28/28	
Alarms	High/Low Temperature	Y	Y	
	Sensor Error	Y	Y	
	Power Failure	Y	Y	
	Door Ajar	Y	Y	
	Remote Alarm	Y	Y	
	High Ambient Temperature	Y	Y	
	Low Battery	Y	Y	
Accessories	Caster	Y	Y	
	Foot	Y	Y	
	Porthole	Y	Y	
	Shelves/Drawers	Refrigerator: 3/0 Freezer: 3/0 (Max 3 Drawers optional, without sliding rack)		
	USB Interface	Y	Y	
Others	Certification	CE	CE	

## Scope of Application

This product is designed to store frozen plasma, biomaterials, vaccines, electronic devices and low temperature tests of special materials, in blood stations, hospitals, epidemic prevention stations, universities, scientific research institutes, electronic chemical industry and other enterprise laboratories.



HYCD-282

HYCD-282A

## Product Advantages



### Refrigerator & Freezer Combination

Independent control panel display for refrigerator section and freezer section



### Multiple Alarms

High/low temperature, door ajar, power failure, sensor error, low battery, high ambient temperature and remote alarm



### Energy Conservation and Environmental Protection

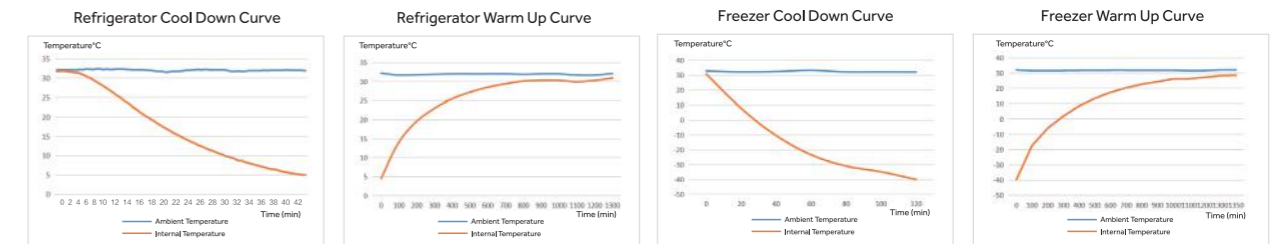
Frequency conversion compressor and hydrocarbon system, Energy conservation and environmental protection



### High Display Precision

Refrigerator room display precision is 0.1°C

## Product Performance



## Specifications

	Model	HYCD-282	HYCD-282A
Technical Data	Cabinet Type	Upright	Upright
	Climate Class	N	N
	Cooling Type	Refrigerator: Forced air cooling Freezer: Direct cooling	Refrigerator: Forced air cooling Freezer: Direct cooling
	Defrost Mode	Refrigerator: Auto / Freezer: Manual	Refrigerator: Auto / Freezer: Manual
	Refrigerant	Refrigerator: R600a / Freezer: R290	Refrigerator: R600a / Freezer: R290
	Sound Level (dB(A))	43	43
Performance	Temperature Range (°C)	Refrigerator: 2-8 / Freezer: -10~-40	Refrigerator: 2-8 / Freezer: -10~-40
Control	Controller	Microprocessor	Microprocessor
	Display	LED	LED
Electrical Data	Power Supply (V/Hz)	220-240/50/60	220-240/50/60
	Power (W)	410	410
	Electrical Current (A)	2.5	2.5
Dimensions	Capacity (L/Cu.Ft)	Refrigerator: 185/6.5; Freezer: 97/3.4	Refrigerator: 185/6.5; Freezer: 97/3.4
	Net/Gross Weight (approx)	kg	145/160
	Interior Dimensions (W*D*H)	mm	Refrigerator: 605*510*720 Freezer: 515*465*440
	Exterior Dimensions (W*D*H)	mm	735*660*1810
	Packing Dimensions (W*D*H)	mm	775*720*1930
	Container Load (20'/40'/40'H)		21/43/43
Alarms	High/Low Temperature	Y	Y
	Door Ajar	Y	Y
	Remote Alarm	Y	Y
	Power Failure	Y	Y
	Sensor Error	Y	Y
	Low Battery	Y	Y
	High Ambient Temp	Y	Y
Accessories	Caster	Y/4	Y/4
	Foot	Y/2	Y/2
	Porthole	Y/2	Y/2
	Shelves/Drawers	Refrigerator: 3/1; Freezer: 0/2	Refrigerator: 3/1; Freezer: 0/2
	Stylus Printer	Optional	Optional
	USB Interface	Y	Y
Others	Certification	CE	CE
Compressor Type		Frequency Conversion Compressor	Frequency Conversion Compressor
Compressor Quantity		2	2

Product appearance and specifications are subject to change without notice

## Smart Management of Medicine and Reagents Starts with IoT Technology

Perform statistical analysis of market data and medicine or reagents usage to report on market trends providing highly useful feedback to production and sales.

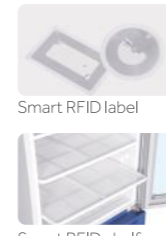


HYC-509R



### Smart IoT System Makes Storage Management Simple, Precise and Effective

RFID based smart IoT management system permits automatic management of stored products are automatically



Smart RFID label

Smart RFID shelf



Industrial-grade IoT Network Module Group

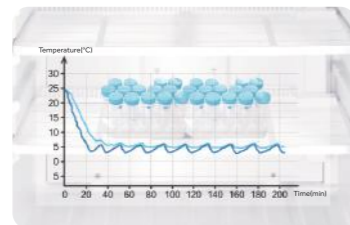


### Authorized Management for Material Flow at Controllable Risk

NFC authorized management system is traceable.



### Statistical Analysis of Test Data, Precise Verification and Scientific Instruction



### Precise Temperature Control Ultimate Safety of Test Reagents

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



### Intelligent Accurate Recording

Intelligent touch screen for quick check of warehouse in-and-out records



#### Manage Market Data to Support Scientific Production Scheduling

Perform statistical analysis of market data and medicine or reagents usage to report on market trends providing highly useful feedback to production and sales.



#### Effective Management of Sales Channels

Sales channels can provide timely feedback information to improve shipping, refilling, dispatching and inventory control, to provide continuity on supply and to optimize inventory level.



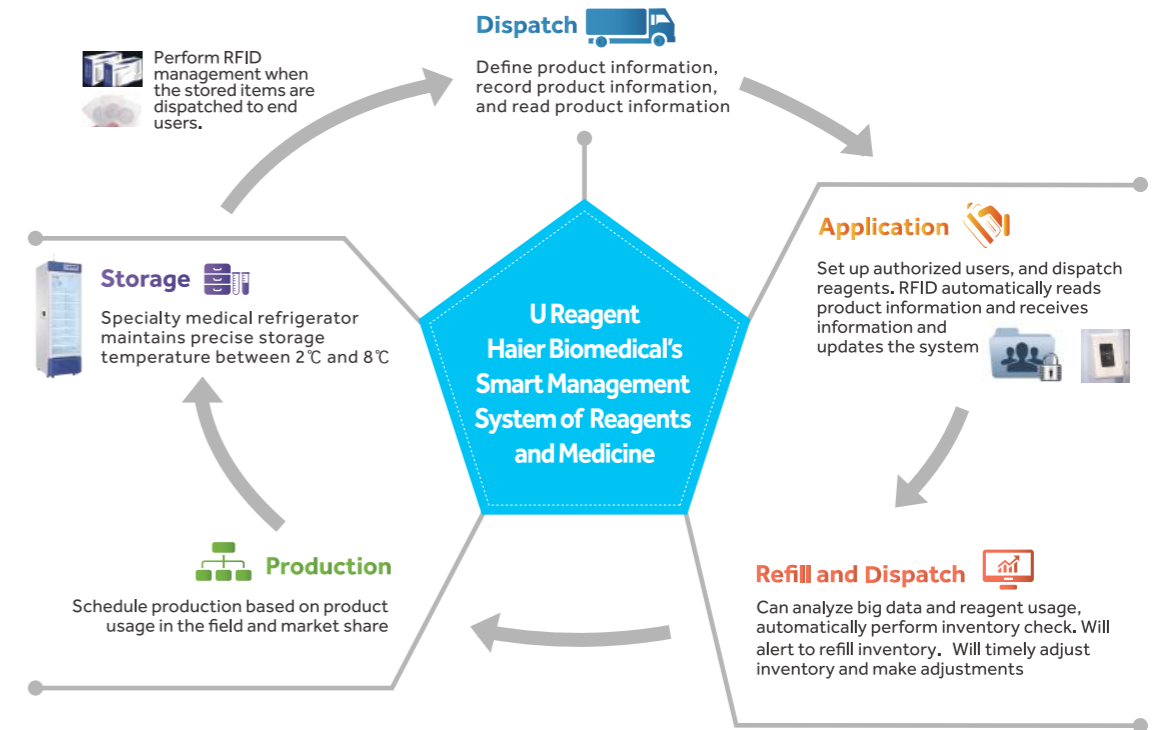
#### Reagent Handling Process is Traceable and Controllable

Shipping and receiving processes of reagents are automatically monitored and controlled for authorized users. Every box of reagents is traceable.

# RFID Refrigerator

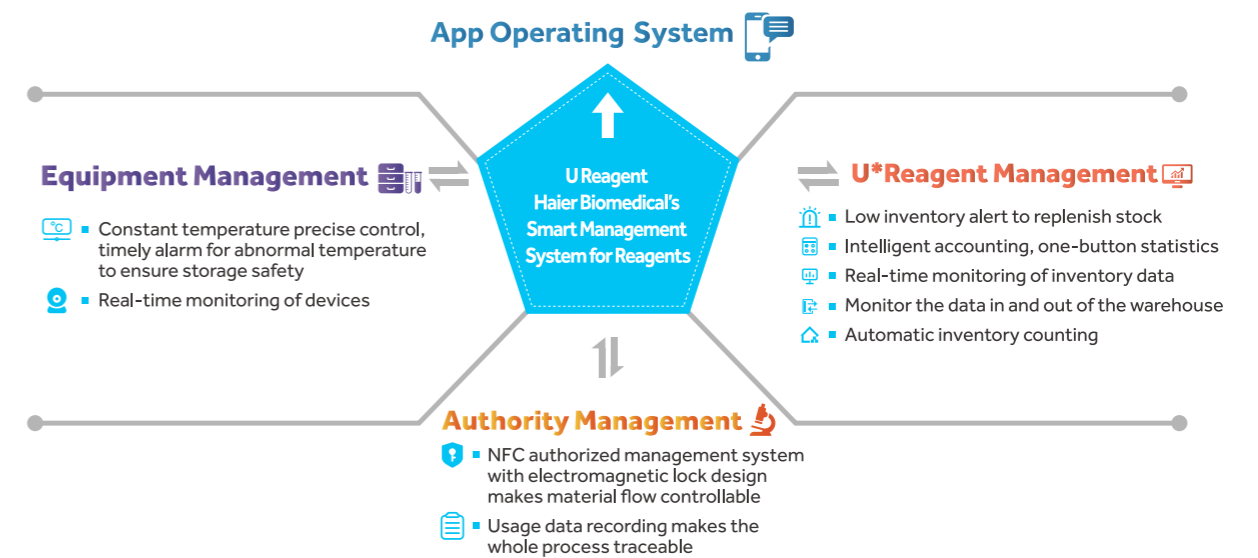
## Smart Management of Products

(It is suitable for manufacturing industry)



## From storage to use, the entire process is automatically and smartly controlled

(It is suitable for pharmaceutical factories, laboratories and hospitals)



## Product Specification

Model	Voltage (V/Hz)	Power (W)	External Dimensions (W*D*H) (mm)	Internal Dimensions (W*D*H) (mm)	Effective Volume (L)	Net Weight / Gross Weight (Kg)	Shelf	Touch Screen
HYC-509R	220~240/50/60	470	693*813*1981	593*585*1500	509	180/215	6	Yes
HYC-390R	220~240/50/60	380	720*710*1965	530*555*1380	390	116/139	5	No

# 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

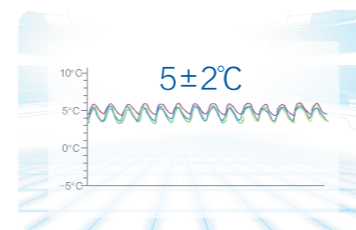
# Pharmacy Refrigerator

## 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

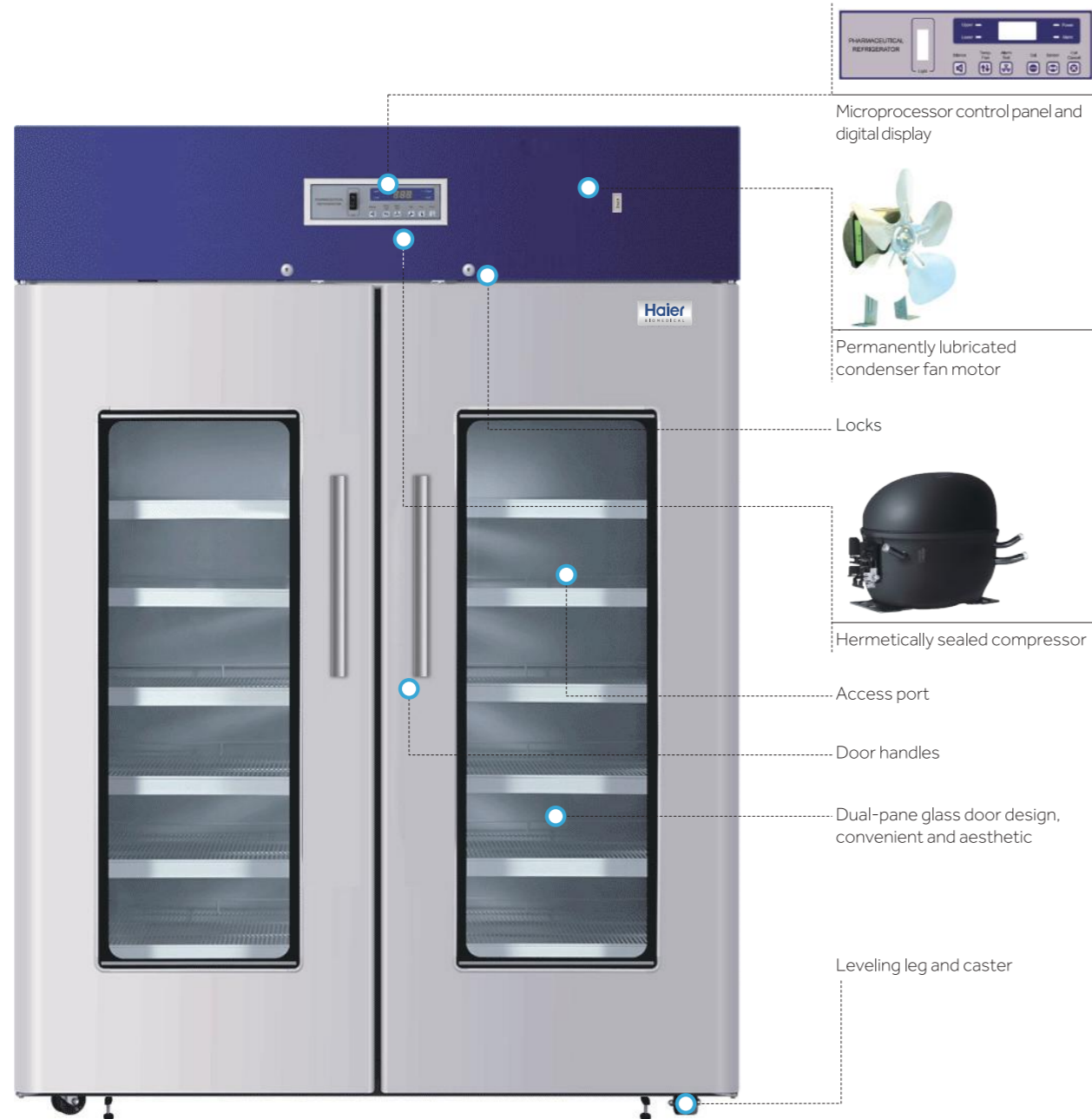
## Specifications

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		Touchscreen+LED		Touchscreen+LED		LED		LED		Touchscreen		Touchscreen		
Electrical Data	Power Supply (V/Hz)	220-240/50/60		220-240/50/60		220-240/50/60		220-240/50/60		220-240/50/60		220-240/50/60		220-240/50/60		220-240/50/60		
	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		
	Power Consumption (kWh/24h)	5.9		5.3		5.9		5.3		6.8		6		6.8		6		
Construction	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		
Loading Quantities	Container Load (20'/40'/40'H)	14/28/28		14/28/28		14/28/28		14/28/28		7/14/14		7/14/14		7/14/14		7/14/14		
Alarms	High/Low Temperature	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		
	Remote Alarm	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	6/Optional		6/Optional		6/Optional		6/Optional		12/Optional		12/Optional		12/Optional		12/Optional		
	USB Interface	Y		Y		Y		Y		Y		Y		Y		Y		
Certification	CE	Y		Y		Y		Y		Y		Y		Y		Y		

T suffix - Advanced with touchscreen

Product appearance and specifications are subject to change without notice

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



Hermetically sealed compressor

Access port

Door handles

Dual-pane glass door design, convenient and aesthetic

Leveling leg and caster

**HYC-1378**

### Durable and Reliable - Key Features

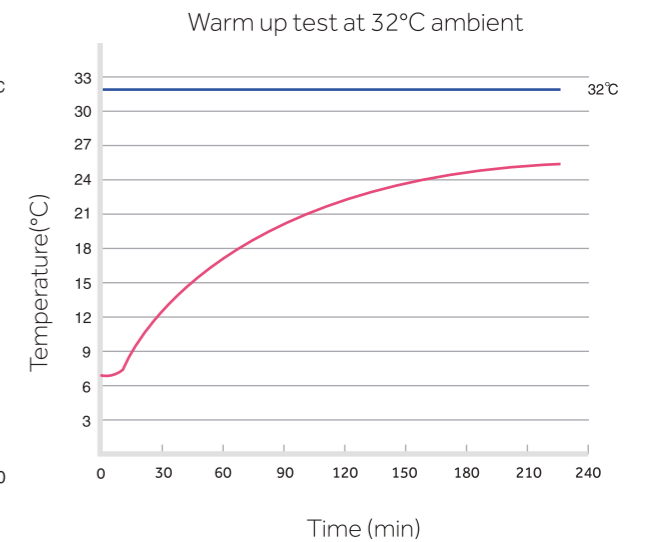
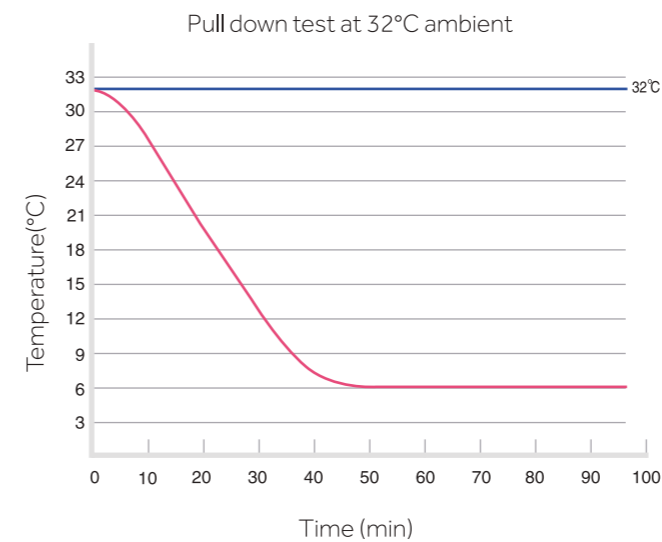
- Energy efficient hydrocarbon (HC) refrigeration system
- Permanently lubricated cooling fan for safety and longevity
- Forced-air cooling with optimized air distribution system designed to achieve maximum temperature uniformity and stability
- Optimized refrigeration system design for more effective cooling and speedy recovery
- Temperature variation within  $\pm 3^{\circ}\text{C}$
- Chamber temperature range  $2\text{--}8^{\circ}\text{C}$
- 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  $10^{\circ}\text{C}\text{--}32^{\circ}\text{C}$  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










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.



220V/50HZ

115V/60HZ

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.
- 
**Multi-channel Sensor, Reliable and Safe**  
 Equipped with upper display sensor, lower display sensor, defrosting sensor, control sensor, ambient temperature sensor, condenser dirty sensor.



### Microprocessor control system:

Microcomputer electronic temperature controller, LED temperature display, the display accuracy is 0.1 °C  
 Multiple alarm functions like high temperature alarm, low temperature alarm, sensor error alarm, power failure alarm, low battery alarm, door ajar, condenser dirty alarm, high ambient temperature alarm, etc  
 Audio and visual alarm. The equipment can connected to the remote alarm interface.



### Insulation

70mm-thick foam insulation layer to provide better insulation



### Porthole

Standard equipped with a porthole to facilitate the user to test



### Security lock

Equipped with safety lock , safe storage of drugs



### Temperature Recorder

Standard equipped with USB port, the printer and RS485 interface are optional.

### Material

The inner liner is equipped with spraying steel plate for easy cleaning

### Casters and levelling leg design

Standard equipped with 4 universal casters and 2 adjustable feet to move and fix the equipment

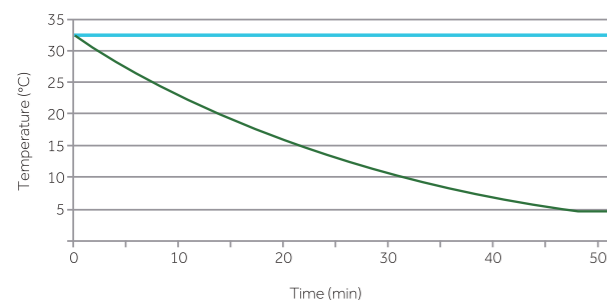
### Shelves

Standard equipped with 4 shelves

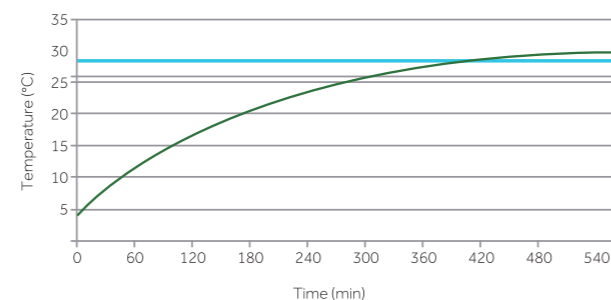


### Typical Performance Characteristics in 32°C Ambient Temp.

Cool down curve



Warm up curve



— Center Temp(For 220V/50HZ)  
 — Ambient Temp(For 220V/50HZ)

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.



**HYC-410**

### 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

### Product Details

#### Material:

HIPS adsorption liner, sprayed steel case

#### Shelves:

Standard with 6 shelves



#### Caster and foot:

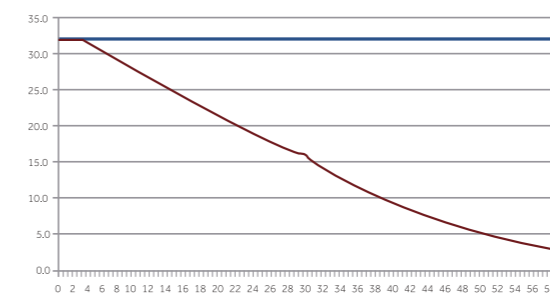
Standard equipped with 4 universal casters and 2 adjustable feet, ensure the refrigerator moving and fixed



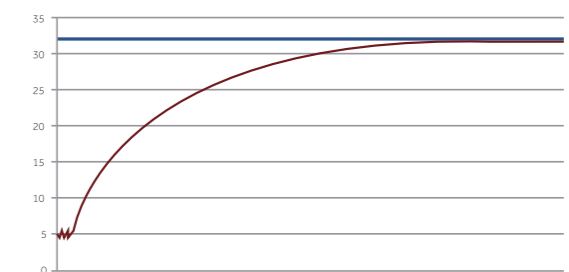
\*Optional: USB, printer, RS485/232 interface

### Product Performance

**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.

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



### Technical Advantages

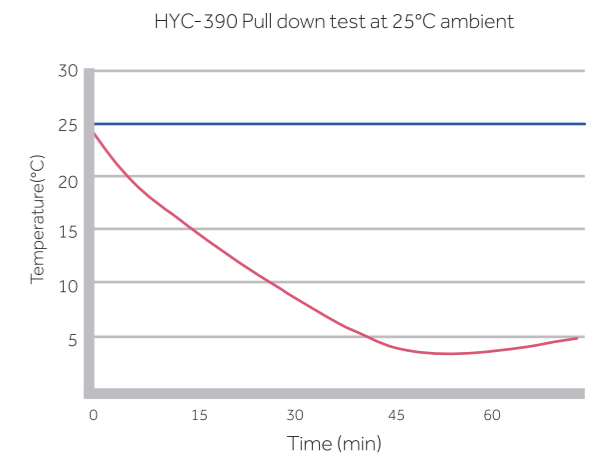
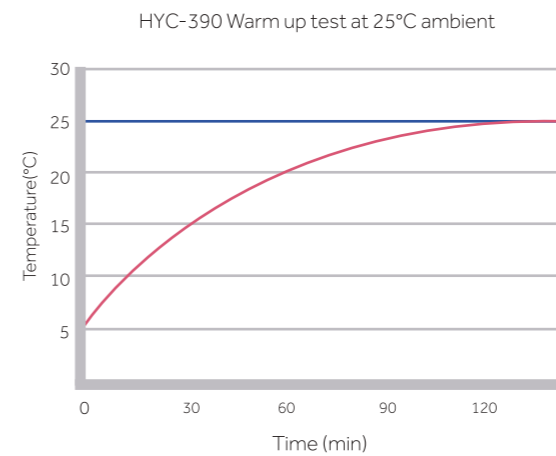
- Accurate temperature control maintains 2°C to 8°C throughout the unit with an adjustable increment at 0.1°C
- Improved user interface includes a data storage capacity of up to 10 years
- Oversized air-cooled condenser improves the robustness of the refrigeration system, reliability and refrigeration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



The product is used to store biological drugs and items at a temperature of 2-8°C. Typically used within pharmacy, pharma production, public health, hospitals and other life science laboratories.

### Product Details



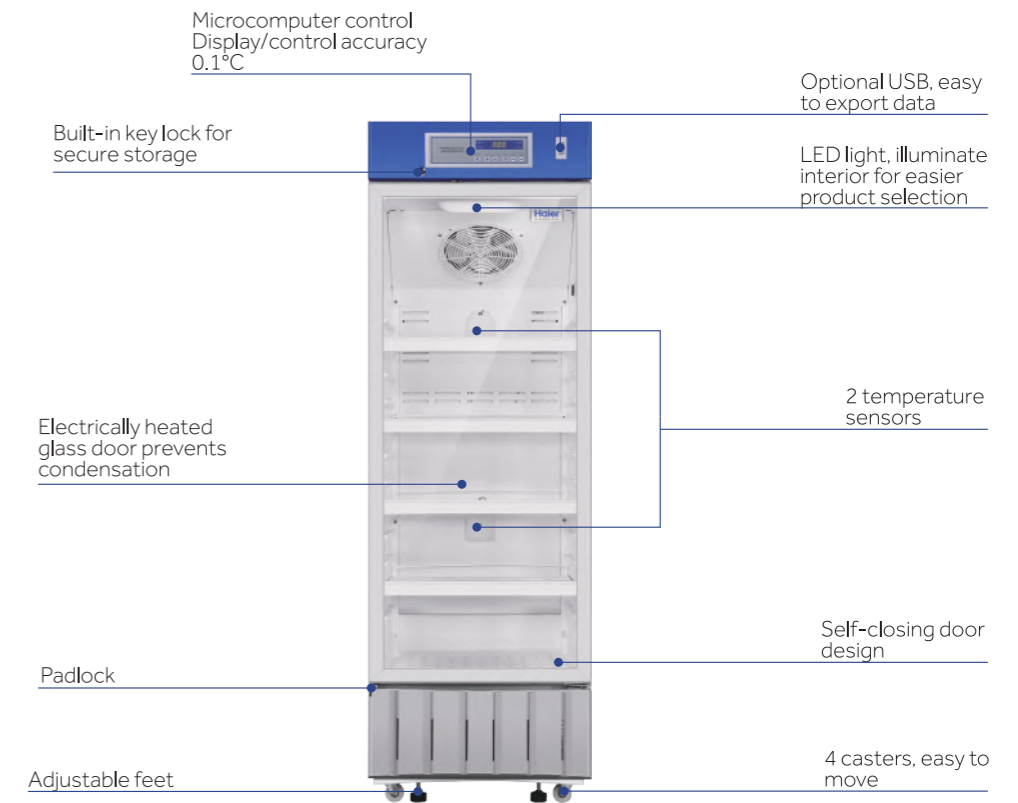
**HYC-309**

### Superior performance

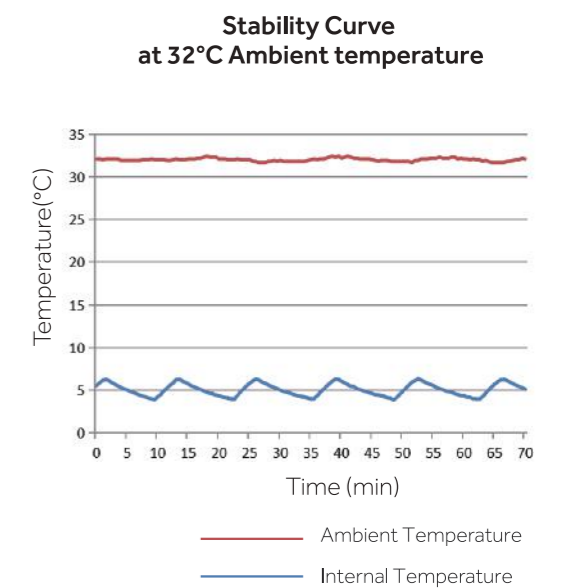
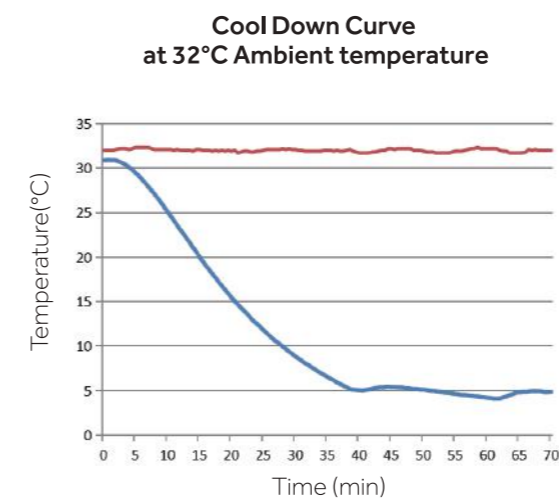
- Microcomputer controller, display/control accuracy 0.1°C
- Temperature range 2-8°C, temperature uniformity ±2°C
- Energy-efficient conversion compressors and non-toxic, environmentally-friendly hydrocarbon refrigerant
- Self-closing door design
- Electrically heated glass door prevents condensation
- Multiple interface options - USB, RS485 and printer

### Safe and reliable

- Key lock and provision for padlock to ensure safe and secure product storage
- Multiple alarms: High/Low temperature alarm, high ambient temperature alarm, door ajar alarm, power failure, low battery, sensor error, comms error and remote alarm contacts
- Alarm mode: Audible/visual and remote alarm with battery back-up which continuously alarms for up to 48 hours in the event of a power failure



### Temperature Curve



## 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.



## Reliability and Key Features

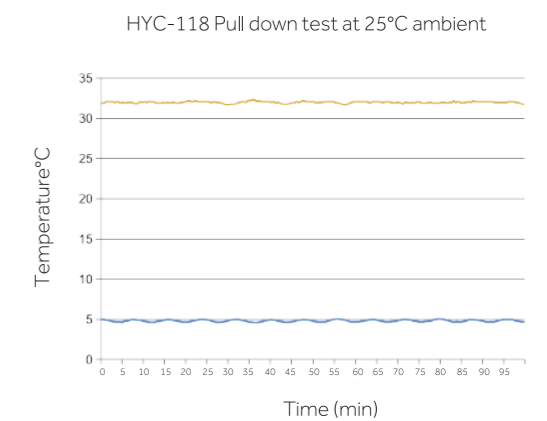
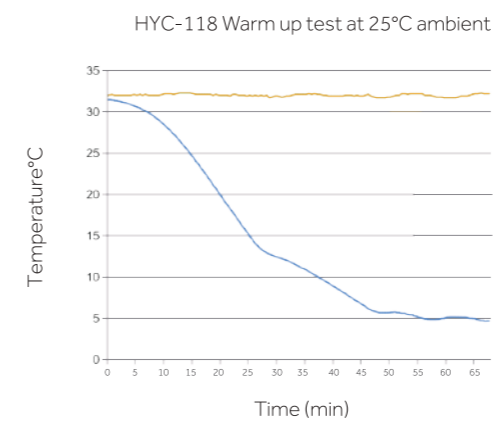
- Energy efficient hydrocarbon (HC) refrigeration system
- Permanently lubricated cooling fan for safety and longevity
- Forced-air cooling with optimized air distribution system designed to achieve maximum temperature uniformity and stability
- Optimized refrigeration system design for more effective 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  $0.1^{\circ}\text{C}$
- 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



— Ambient Temperature — Internal Temperature

Specifications



Model	HYC-68		HYC-68A		HYC-118		HYC-118A		HYC-290		HYC-309		HYC-390		HYC-410		HYC-639		HYC-390F		HYC-610		HYC-940		HYC-940F		HYC-1378			
Cabinet Type	Upright, Solid Door		Upright, Glass Door		Upright, Solid Door		Upright, Glass Door		Upright, Single Door		Upright		Upright, Single Door		Upright, single door		Upright, single 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		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		Forced Air Cooling			
Defrost Mode	Auto		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			
Sound Level (dB(A))	41		41		41		41		43   43		41		43   43		41		43   46		43   43		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		115/60   220-240/50/60		220-240   50/60		115/60   220-240/50/60		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			
	Electrical Current (A)		0.85   1.7		0.85   1.7		1.4   1.4		1.5   1.5		2.2   1.8		1.5		2.4   1.8		2.0		2.15   2.5		1   1.5		3   6.2		3.5   7.5		2.7		3   7.5	
Dimensions	Capacity (L/Cu.Ft)		68/2.4		68/2.4		118/4.2		118/4.2		290/10.2		309/10.91		390/13.8		410		639/22.6   600/21.2		390/13.8		610/21.6		890/31.4		890/31.4		1378/48.7	
	Net/Gross Weight (approx)	kg	38/40		38/40		41/46		46/51		105/127		77/87		116/139		116/139		200/240		106/129		204/227		227/279		207/259		310/360	
		lbs	83.8/88.2		83.8/88.2		90.5/101.5		101.5/112.5		231.6/280.1		169.76/191.80		255.8/306.6		255.7/306.4		551.15/639.33		233.8/284.5		449.7/500.4		500.4/615.1		456.4/571.1		683.4/793.7	
	Interior Dimensions (W*D*H)	mm	415*385*505		415*385*505		515*415*630		515*415*630		530*555*1080		525*500*1290		530*555*1380		530*590*1380		620*706*1520		530*555*1380		680*640*1400		1030*590*1425		1030*590*1425		1320*700*1500	
		in	16.3*15.2*19.9		16.3*15.2*19.9		20.3*16.3*24.8		20.3*16.3*24.8		20.9*21.9*42.5		20.67*19.69*50.79		20.9*21.9*54.3		20.9*22.8*54.3		24.4*27.8*59.8		20.9*21.9*54.3		26.8*25.2*55.1		40.6*23.2*56.1		40.6*23.2*56.1		52.0*27.6*59.1	
	Exterior Dimensions (W*D*H)	mm	495*580*660		495*580*660		597*635*810		597*635*810		665*710*1665		600*630*1840		665*710*1965		665*710*1965		760*897*1993		665*710*1965		780*840*1945		1130*755*1980		1130*755*1980		1440*950*1980	
		in	19.5*22.8*26.0		19.5*22.8*26.0		23.5*25.0*31.9		23.5*25.0*31.9		26.2*28.0*65.6		23.62*24.80*72.44		26.2*28.0*77.4		26.2*28.0*77.4		29.9*35.3*78.5		26.2*28.0*77.4		30.7*33.1*76.6		44.5*29.7*78.0		44.5*29.7*78.0		56.7*37.4*78.0	
	Packing Dimensions (W*D*H)	mm	540*640*710		540*640*710		680*690*910		680*690*910		690*790*1810		660*670*2060		690*790*2110		675*790*2115		873*997*2143		690*790*2110		865*945*2090		1250*850*2130		1250*850*2130		1570*1010*2120	
in		21.3*25.2*28.0		21.3*25.2*28.0		26.8*27.2*35.8		26.8*27.2*35.8		27.1*31.0*71.1		25.98*26.38*81.10		27.1*31.0*82.9		26.6*31.1*83.3		34.5*39.3*84.4		27.1*31.0*82.9		34.1*37.2*82.3		49.2*33.5*83.9		49.2*33.5*83.9		61.8*39.8*83.5		
Container Load (20'/40'/40'H)		102/204/204		102/204/204		48/96/96		48/96/96		22/44/44		24/48/48		22/44/44		23/48/48		12/26/26		22/44/44		12/26/26		11/23/23		11/23/23		7/14/14		
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		N		N		Y/2		Y/2		Y		4		Y		4		Y/4		Y		Y		Y		Y			
	Foot		Y/2		Y/2		Y/2		Y/2		Y		2		Y		2		Y/2		Y		Y		Y		Y			
	Porthole		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y		Y			
	Shelves/Drawers		2/1		2/1		3/1		3/1		5/-		5/-		7/-		6		4/-		7/-		6/-		12/-		12/-			
	USB Interface		Optional		Optional		/		/		Y   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		Optional		N/A		Optional		Optional			
	Temperature Recorder		N/A		N/A		N/A		N/A		Optional		/		Optional		N/A		/		Optional		Optional		Optional		Optional			
Others	Certification		CE   UL		CE   UL		CE   UL		CE   UL		UL   CE		/		UL   CE		CE, ENERGY STAR   CE		UL, ENERGY STAR, ANSI 456		CE, ENERGY STAR		CE   UL		CE   UL		CE   UL			

Product appearance and specifications are subject to change without notice