

Haier Biomedical Intelligent Protection of Life Science

Pharmacy Refrigerator



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Combined Refrigerator and Freezer

Main Application

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



HYCD-469



Temperature Control



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

	Mode	ıl.	HYCD-469		
Technical Data Performance Control	Cabinet Type		Upright		Exterior
	Climate Class		N		Dimension (W*D*H
Technical	Cooling Type		Refrigertor: Forced air cooling Freezer: Direct cooling	Dimensions	Packing
Data	Defrost Mode		Refrigerator: Auto Freezer: Manual		Dimension (W*D*H
Climate Class Cooling Type Technical Data Defrost Mode Refrigerant Sound Level (dB(A)) Performance Cooling performance Temperature Range Control Display Power Supply (V/Hz Power (W) Electrical Current (A Capacity (L/Cu.Ft) Net/Gross Weight (approx) Interior Dimensions		HC		Container	
	Sound Level (dB	(A))	45		High/Lov
	Cooling perform	ance (°C)	Freezer: -40		Remote
	Temperature Ra	inge (°C)	Refrigerator 2~8 Freezer - 10~-40		Power Fa
Temperatur Controller	Controller		Microprocessor	Alarms	Sensor E
Control	Display		LED		Low Batt
	Power Supply (V/	/Hz)	220~240/50/60		High Am
Electrical	Power (W)		580		Caster
Data	Electrical Curren	it (A)	3		Foot
	Capacity (L/Cu.F	Ft)	Refrigerator:269/9.5 Freezer: 200/7.1	Accessories	Porthole
Dimensions		kg lbs	176/207 388.0/456.4		Shelves/
	3	mm	Refrigerator: 593*585*800 Freezer: 553*545*660		USB Inte
	Dimensions (W*D*H)	in	Refrigerator: 23.3*23.0*31.5 Freezer: 21.8*21.5*26.0	Others	Certifica

	Mode	el	HYCD-469
	Exterior Dimensions	mm	738*834*1975
	(W*D*H)	in	29.1*32.8*77.8
Dimensions	Packing Dimensions	mm	800*875*2100
	(W*D*H)	in	31.5*34.4*82.7
	Container load (20	0'/40'/40'H)	14/30/30
	High/Low Temp	perature	Y
	Remote Alarm		Υ
Alarms	Power Failure		Υ
Alarms	Sensor Error		Υ
	Low Battery		Υ
	High Ambient T	emp	Υ
	Caster		Υ
	Foot		Υ
	Porthole		Υ
Accessories	Shelves/Drawe	rs	Refrigerator: 3/0 Freezer: 3/0
	USB Interface		Υ
Others	Certification		CE

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Combined Refrigerator and Freezer





HYCD-282 HYCD-282A











Combined Refrigerator and Freezer

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					
	Cabinet Type		Uprig	nt	Upright					
	Climate Class		N		N					
	Caaliaa Tura		Refrigertor:Force	d Air Cooling	Refrigertor:Forced Air Cooling					
Technical Data	Cooling Type		Freezer: Direc	ct Cooling	Freezer: Dire	ct Cooling				
	Defrost Mode		Refrigerator:Auto	Freezer: Manual	Refrigerator:Auto	Freezer: Manual				
	Refrigerant		CFC-F	ree	CFC-F	ree				
	Sound Level (dB(A))		43		43					
Performance	Cooling Performance (°C)		Freezer	:-40	Freeze	r:-40				
Performance	Temperature Range (°C)		2~8/-20	~-40	2~8/-20)~-40				
Control	Controller		Microprod	essor	Micropro	cessor				
Control	Display		LED		LEC)				
	Power Supply (V/Hz)		220~240	0/50	220~240/50	208-230/60				
Electrical Data	Power (W)		400		400	400				
	Electrical Current (A)		2.8		2.8	2				
	Cit(I_/C Ft)		Refrigerator	:185/6.5	Refrigerato	r:185/6.5				
	Capacity (L/Cu.Ft)		Freezer: 9		Freezer: 97/3.4					
	N = + / C = = = - \	kg	145/1	60	145/160					
	Net/Gross Weight (approx)	lbs	320.0/3	52.7	320.0/352.7					
		Ī	Refrigerator: 60	5*510*720	Refrigerator:605*510*720					
	Interior Dimensions (W*D*H)	mm	Freezer: 515*	465*440	Freezer: 515	*465*440				
Dimensions	Interior Dimensions (W·D·A)	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	736*660*1810					
	Exterior Dimensions (W·D·A)	in	29.0*26.0	*71.3	29.0*26.0*71.3					
	Packing Dimensions (W*D*H)	mm	775*720*	1930	775*720*1930					
	Packing Dimensions (W · D · A)	in	30.5*28.	3*76	30.5*28.3*76					
	Container Load (20'/40'/40'H)		21/45/	45	21/45/45					
	High/Low Temperature		Υ		Y					
	Remote Alarm		Υ		Y					
Alarms	Power Failure		Y		Y					
Aldiffis	Sensor Error		Υ		Y					
	Low Battery		Y		Y					
	High Ambient Temp		Y		Y					
	Caster		Y		Y					
	Foot		Y		Y					
Accessories	Porthole		Y		Y					
	Shelves/Drawers		Refrigerator: 3/1	Freezer: 0/2	Refrigerator: 3/1	Freezer: 0/2				
	USB Interface		Y		Y					
Others	Certification		CE		CE /					

Product appearance and specifications are subject to change without notice

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RFID Refrigerator

Smart Management of Reagents Starts with IoT Technology

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



HYC-390R





Industrial-grade IoT network module group

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 Io T management system

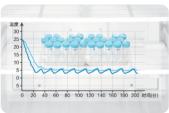


Secure, authorized access

management NFC authorized management system is traceable



Statistical analysis of data and precise



Precise temperature control for ultimate safe mart alerts for maintenance and product of test reagents management

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



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

 ${\it Constant \, temperature \, for \, reagent \, storage}$

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
- 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		
	Cabinet Type		Upright, single door	Upright, single glass door		
	Climate Class		N	N		
Technical	Cooling Type		Forced air cooling	Forced air cooling		
Data	Defrost Mode		Auto	Auto		
	Refrigerant		HC	HC		
	Sound level (dB(A))		43	40		
Performance	Cooling performance (°C)		±3	±2		
Performance	Temperature Range (°C)		2-8°C	2~8		
Combinal	Controller		Microprocessor	Microprocessor		
Control	Display		LED	Touch		
	Power Supply (V/Hz)		208~230/50/60	208~230/50/60		
Electrical	Power (W)		225	400		
Data	Electrical Current (A)		1.2	2		
	Capacity (L/Cu.Ft)		390/13.77	509/17.97		
	Net/Gross Weight (approx)	kg	116/139	180/215		
	Net/Gloss Weight (approx)	lbs	255.73/306.44	396/473		
	Interior Dimensions (W*D*H)	mm	530*555*1380	593*585*1500		
)::	Interior Dimensions (W·D·A)	in	20.9*21.9*54.3	23.21*22.9*58.8		
Dimensions	F D: /\/*D* \	mm	720*710*1965	693*813*1981		
	Exterior Dimensions (W*D*H)	in	28.3*28*77.4	27.1*31.9*77.7		
	D 1 . D	mm	792*790*2110	800*875*2100		
	Packing Dimensions (W*D*H)	in	31.2*31*82.9	31.3*34.3*82.3		
	Container load (20'/40'/40'H)		14/45/45	12/24/24		
	High/Low Temperature		Υ	Y		
	Remote Alarm		Υ	Y		
Alarms	Power Failure		Υ	Y		
AldIIIS	Sensor Error		Υ	Y		
	Low Battery		Υ	Y		
	Door Ajar		Υ	Y		
	Caster		Υ	Y		
	Foot		Υ	Y		
Accessories	Porthole		Υ	Υ		
	Shelves		5	Y		
Others	Certification		CE	CE		

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R suffix - RFID with IoT model for reagent management

Product appearance and specifications are subject to change without notice

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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
- \bullet 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°C temperature uniformity and display accuracy of 0.1°C
- Maximum power for rapid temperature pulldown

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 $\pm 1^{\circ}$ C.



The Advantage of Compressor Free Refrigerator

**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 **Conventional Compressor* *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
- \bullet Suitable for on and under counter installation
- \bullet 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

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Pharmacy Refrigerator with TEC



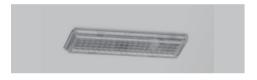
Natural Evaporation of Condensate

• 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



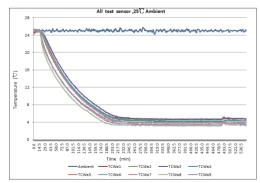
Low noise DC fan, sound level less than 35dB (A)

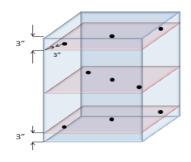


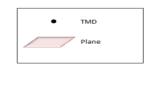
Removable Trays with ABS Material

- 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

Typical Performance Characteristics at 25°C Ambient







Pharmacy Refrigerator with TEC

Specifications

	Model		НҮС	C-51BF				
	Cabinet Type		Upright					
Technical	Climate Class			N				
Data	Cooling Type		Force A	Air Cooling				
	Sound Level (dB(A))		34					
Performance	Cooling Performance (°C)			±2				
Performance	Temp Range (°C)			2-8				
	Controller		Microp	processor				
Control	Display		L	_CD				
	LCD Size (in)			7				
Electrical Data	Power Supply (V/Hz)		115/60	220~240/50				
	Power Input (W)		165					
Dala	Rated Current (A)		1.5	0.8				
	Not/Cross Weight (approv)	kg	50/57					
	Net/Gross Weight (approx)	lbs	110.3/125.8					
		mm	380*300*470					
	Interior Dimensions (W*D*H)	in	14.96*11.81*18.5					
Dimensions	F D (A/4D41)	mm	525*565*720					
	Exterior Dimensions (W*D*H)	in	20.7*22.2*28.3					
		mm	550*600*883					
	Packing Dimensions (W*D*H)	in	21.7*23.6*34.8					
	Container Load (20'/40'/40'H)		72/152/152					
	High/Low Temp		Y					
Alarms	Sensor Error			Υ				
AldIIIIS	Door Ajar	165 1.5 0 1.5 0 1.5 0 1.5 0 1.5 0 1.5 0 1.5 0 1.5 0 1.5 0 1.5 1.5	Υ					
	Alarm Mode		Audible Buzzing and Alarm Window					
	Level Leg		4					
Accessories	Tray		3					
	Data Log		l	JSB				
Others	Certification		UL	CE				

Product appearance and specifications are subject to change without notice

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Pharmacy Refrigerator Advanced Pharmacy Refrigerator with Touchscreen



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



Product Advantages





Precise Temperature Control and Reliable Operation

• VFD driven compressor

• High-efficiency fan motor

- Advanced control system
- Six sensors
- High efficiency air flow system
- Precise temperature control
- Uniform temperature distribution

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

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Specifications

	Model	HYC-509	HYC-509F	HYC-509T	HYC-509TF	HYC-1099	HYC-1099F	HYC-1099T	HYC-1099TF
	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
Technical	Cooling Type	ing Type Forced air cooling		Forcedaircooling	Forced air cooling				
Data	Defrost Mode	Defrost Mode 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
Control	Display	LED	LED	Touch	Touch	LED	LED	Touch	Touch
	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
Electrical Data	Power (W)	370	315	370	315	470	440	470	440
Data	Electrical Current (A)	1.85	1.75	1.85	1.75	2.5	2.25	2.5	2.25
	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
	N 1/0 M 11/	kg 180/215	175/210	180/215	175/210	340/400	330/390	340/400	330/390
	Net/Gross Weight (approx)	lbs 396/473	385/462	396/473	385/462	748/1000	726/858	748/1000	726/858
		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
Diagonaiana	Interior Dimensions (W*D*H)	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
Dimensions		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
		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
	Packing Dimensions (W*D*H)	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)	Container Load (20'/40'/40'H) 12/24/24		12/24/24	12/24/24	6/12/12	6/12/12	6/12/12	6/12/12
	High/Low Temperature	Y	Υ	Y	Υ	Y	Υ	Υ	Y
	Remote Alarm	Y	Υ	Y	Υ	Y	Υ	Υ	Y
Functions	Power Failure	Y	Y	Y	Υ	Y	Υ	Y	Y
ui icuoi is	Sensor Error	Y	Υ	Y	Υ	Y	Υ	Υ	Y
	Low Battery	Y	Y	Y	Υ	Y	Υ	Y	Y
	Door Ajar	Door Ajar Y		Y	Υ	Y	Υ	Y	Y
	Caster	Y	Υ	Y	Υ	Y	Υ	Υ	Y
	Foot	Y	Υ	Y	Υ	Y	Y	Y	Y
Accessories	Porthole	Y	Υ	Y	Υ	Y	Υ	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	Υ	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

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



HYC-1378

Pharmacy Refrigerator

Standard Pharmacy Refrigerator

Durable and Reliable - Key Features

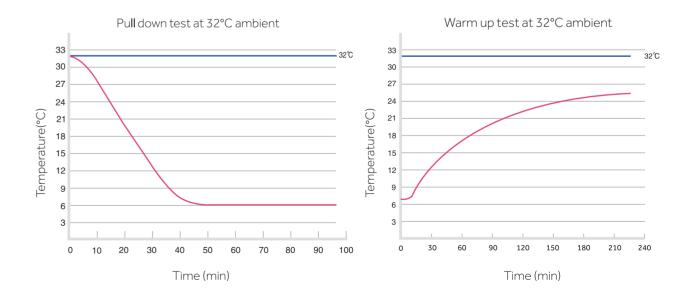
- Energy efficient hydrocarbon (HC) refrigeration system
- Permanently lubricated cooling fan for safety and longevity
- Forced-air cooling with optimized air distribution system designed to achieve maximum temperature uniformity and stability
- Optimized refrigeration system design for more effective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



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



Pharmacy Refrigerator Standard Pharmacy Refrigerator

Technical Advantages

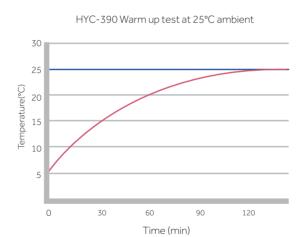
- Accurate temperature control maintains 2°C to 8°C throughout the unit with an adjustable increment at 0.1°C
- Improved user interface includes a data storage capacity of up to 10 years
- Oversized air-cooled condenser improves the robustness of the refrigeration system, reliability and refrigeration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

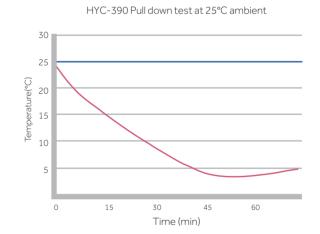
Ergonomic Design

- 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
- 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

















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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 ±2°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

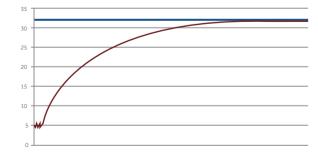
Safe

- 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

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58

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.

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.21.

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.



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 ±2°C.

Low Noise

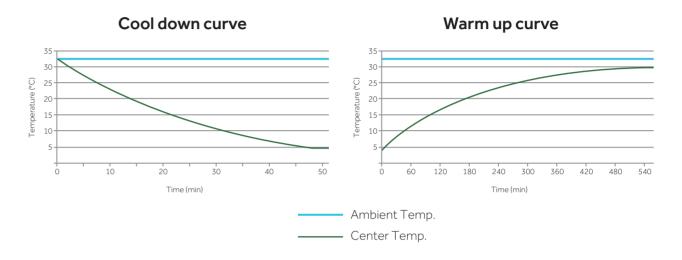
• Optimized system and structure noise reduction design, noise 43 dB (A).

Multi-channel Sensor, Reliable and Safe

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

Pharmacy Refrigerator Standard Pharmacy Refrigerator

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

Porthole

Standard equipped with a porthole, convenient for users to test and use

Temperature recorder

Standard USB Optional printer, RS485 interface, etc

Casters and leveling leg design

Standard with 4 universal casters and 2 height adjustable feet to ensure ease of movement and stability

Insulation

70mm thick foam layer, to provide better insulation effect

Security lock

Equipped with safety lock with 2 keys for drug storage safety

Material

The liner is sprayed steel plate for easy cleaning

Shelve

Standard with 4 shelves, optional 6 shelves



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



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Under-Counter Pharmacy Refrigerator

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.



Under-Counter Pharmacy Refrigerator



Reliability and Key Features

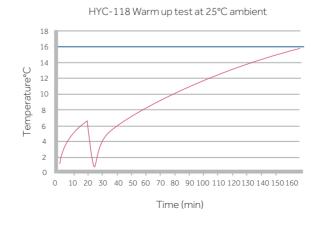
- Energy efficient hydrocarbon (HC) refrigeration system
- Permanently lubricated cooling fan for safety and longevity
- Forced-air cooling with optimized air distribution system designed to achieve maximum temperature uniformity and stability
- Optimized refrigeration system design for more effective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

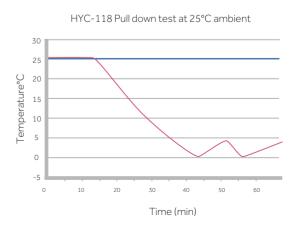
Safety

- 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





Pharmacy Refrigerator

























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	Model	HYC-68	HYC	-68A	HYC-	-118	HYC-	-118A	HYC-	290	HYC	C-390	HYC-410	HYC-639	HYC	-390F	HYC-61	0 F	HYC-940	HYC-940F	HYC-	1378
	Cabinet Type	Upright, Solid Door	Upright, G	Glass Door	Upright, S	olid Door	Upright, G	Glass Door	Upright,Sir	igle Door	Upright,S	ingle Door	Upright,single door	Upright, glass door	Upright, Single Door		Upright,Single	Door Up	ight, Double Blass Door	Upright, Double Solid Door	Upright, do	ouble door
	Climate Class	N	N	N		N		N		N		N	N	ST		N	N		Ν	N	N	1
Technical	Cooling Type	Forced Air Cooling	Forced A	ir Cooling	Forced Air	Forced Air Cooling		Forced Air Cooling		Cooling	Forced A	Air Cooling	Forced air cooling	Forced air cooling	Forced A	Air cooling	Forced Air Co	oling Ford	ed Air Cooling	Forced Air Cooling	Forced Air	r Cooling
Data	Defrost Mode	Auto	Au	uto	Au	to	Au	ıto	Au	to	Aı	uto	Auto	Auto	A	uto	Auto		Auto	Auto	Aut	ıto
	Refrigerant	HC	HC	HC	HC	HC	HC	HC	Н		F	HC	HC	HC	H	HC	HC		HC	HC	Н	
	Sound Level (dB(A))	41	4	l 1	41	1	4	1	43	43	43	43	41	43	43	43	43	45 4	3 45	43	43	45
Performanc	e 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
Controller		Microprocessor		ocessor	Micropro		Micropro		Micropro			rocessor	Microprocessor	Microprocessor		rocessor	Microproces	ssor Mic	roprocessor		Micropro	
Control		LED	LE		LE		LE		LE			ED	-	LED		ED	LED		LED	LED	LE	
	Display												LED					115/50 220 2			220~240/	
Electrical Data	Power Supply (V/Hz)	220~240/50 115/60	220~240/50		220~240/50/60		220~240/50/60			220-240/50/60	115/60	220-240 /50/60	220~240/50	220~240/50	220-240 /50/60	115/60				220~240/50/60	50/60	115/60
	Power (W)	140 150	140	150	190	190	230	230	200	350	240	360	350	410	210	115	550	500 7	00 85	0 500	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	5 2.7	3	7.5
	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	5	890/31.4	890/31.4	1378/	/48.7
	Net/Gross Weight kg	38/40	38	/40	41/	41/46		46/51		105/127		/139	116/139	200/240	106/129		204/227	,	227/279	207/259	310/	360
	(approx) lbs	83.8/88.2	83.8	/88.2	90.5/	101.5	101.5/112.5		231.6/280.1		255.8/306.6		255.7/306.4	551.15/639.33	233.8/284.5		449.7/500		00.4/615.1	456.4/571.1	683.4/	
	Interior Dimensions mm	415*385*505	415*38	85*505	515*41	15*630	515*4	15*630	530*555	*1080	530*555*1380		530*590*1380	760*897*1993	530*555*1380		680*640*1	400 103	0*590*1425	1030*590*1425	1320*70	0*1500
Dimension	s (W*D*H) in	16.3*15.2*19.9	16.3*15	5.2*19.9	20.3*16	5.3*24.8	20.3*16	6.3*24.8	20.9*21.	9*42.5	20.9*21.9*54.3		20.9*22.8*54.3	29.9*35.3*78.5	20.9*21.9*54.3		26.8*25.2*5	55.1 40.	6*23.2*56.1	40.6*23.2*56.1	52.0*27	.6*59.1
	Exterior Dimensions mm	495*580*660	495*58	80*660	597*635*810	597*635*810	597*635*810	597*635*8	10 665*710*1665		665*710*1965		665*710*1965	620*706*1520	665*710*1965		780*840*1		0*755*1980	1130*755*1980	1440*95	0*1980
	(W*D*H) in	19.5*22.8*26.0	19.5*22	2.8*26.0	23.5*25.0*31.9	23.5*25.0*31.9	23.5*25.0*31.9	23.5*25.0*3	1.9 26.2*28.0*65.6		26.2*28.0*77.4		26.2*28.0*77.4	24.4*27.8*59.8	26.2*28.0*77.4		30.7*33.1*7	76.6 44.	5*29.7*78.0	44.5*29.7*78.0	56.7*37	.4*78.0
	PackingDimensions mm	540*640*710	540*6	40*710	680*69	90*910	680*69	90*910	690*790*1810		*790*1810 690*790*2110		675*790*2115	873*997*2143	690*790*2110		865*945*20	090 125	0*850*2130	1250*850*2130	1570*101	10*2120
	(W*D*H) in	21.3*25.2*28.0	21.3*25	5.2*28.0	26.8*27	.2*35.8	26.8*27	7.2*35.8	27.1*31.	0*71.1	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*8	32.3 49.	2*33.5*83.9	49.2*33.5*83.9	61.8*39	.8*83.5
	Container Load (20'/40'/40'H)	108/228/228	108/2	28/228	48/10	2/102	48/10	2/102	21/42/42		21/42/42 21/42/42		23/48/48	12/26/26	21/42/42		12/26/26	5	8/18/18	8/18/18	6/12	:/12
	High/LowTemperature	Y	,	Y)	()	Y		Y		Υ	Y	Y		Y		Υ	Y	Y	1	
	Remote Alarm	Y	,	Υ	Y	Y		Y	Y		Y		Y	Y	Y		Y		Υ	Y	Y	
Alarms	Power Failure	Y	Y		Υ)	Y	Υ		Υ		Y	Y	Y		Y		Υ	Y	Y	(
AlaiTTIS	Sensor Error	Y	,	Y	١	()	Y	Υ			Υ	Υ	Y	Y		Y		Υ	Y	Y	<u> </u>
	Low Battery	Y	,	Y))	Y	Υ			Υ	Y	Y		Υ	Y		Υ	Y	Y	<u>r</u>
	Door Ajar	Y	,	Y)	()	Y	Y			Υ	Y	Y		Υ	Y		Υ	Y	Y	<u>/</u>
	Caster	Y	'	Y))	Y	Y			Y	4	4		Y	Y		Y	Y	Y	
	Foot	Y	,)			Y	Y			Y	2	2		Y	Y		Υ	Y	Y	
Accessories	Porthole	Y		Y)			Y	Y			Υ	Y	1	Y		Y		Υ	Y	Y	
, (CCC330) IE.	Sneives/Drawers	2/1		/1	3/			/1	5/			//-	6	4(6 optional)	7/-		6/-		12/-	12/-	12	
	USB Interface	Optional	<u> </u>	ional	/			/		Optional		Optional	Optional	Y	Optional Y		Optional		Optional	Optional	Y	
	Printer	N/A		/A	N/			/A		tional	· ·	tional	Optional	Optional		tional	N/A		Optional	Optional	Optio	
	Temperature Recorder	N/A		/A	N,			/A		tional	-	tional	N/A	N/A		tional	Optional	_	Optional	Optional	Optio	
Others	Certification	CE UL	CE	UL	CE	UL	CE	UL	UL	CE	CE UL CE		CE ENERGY STAR	CE	CE ENERGY STAR		CE	UL	CE UL	_ CE	CE	UL

Product appearance and specifications are subject to change without notice