Haier Biomedical
Intelligent Protection of Life Science

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Pharmacy Refrigerator Solutions

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CONTENTS

Chromatography Refrigerator

Used for biochemical chromatographic analysis in laboratories, universities and other facilities.

Product Advantages

Professional Chromatography Refrigerator
- Large volume of 1100L
- Waterproof sockets provides power for mixers, shakers and other lab tools
- Robust frame and clamp securely hold experimental apparatus
- UV lamp ensures thorough sterilization within the chamber
- Corrosion-proof and easy-to-clean stainless steel interior

Top-mounted key lock for convenience

Adjustable perforated stainless steel shelves promote better circulation and flexible storage

Two access ports (one on each side wall)

4 swivel casters with 2 leveling feet for easy movement and positioning

Hydrocarbon refrigerant (R290) and CFC -free polyurethane insulation

USB, RS485 & printer for easy data export and external connection

Microprocessor controller, digital display with 0.1° C resolution; hermetically sealed compressor, forced-air circulation with auto defrost to ensure a cabinet temperature between 2~8°C

Double-layer tempered glass door with heater prevents condensation even at 32° C, 80% RH ambient, self-closing mechanism, magnetic door gasket for positive seal

Multiple alarm functions for safer monitoring, audible & visual alert with mute function, including standard remote alarm modules

Energy-efficient interior LED lighting provides bright, high color illumination at lower heat output

Specifications

Model			HYC-1100C
Technical Data	Cabinet Type		Upright, Glass Door
	Climate Class		N, 16~32°C
	Cooling Type		Forced Air Cooling
	Defrost Mode		Auto
	Refrigerant		R290, 90g
	GWP(global warming potential)		3
	Sound Level (dB(A))		43
Performance	Temperature Range (°C)		2~8
Control	Controller		Microprocessor
	Display		LED
Electrical Data	Power Supply (V/Hz)		220~240/50/60
	Power (W)		600
	Electrical Current (A)		2.7
Dimensions	Capacity (L/Cu.Ft)		1100/38.8
	Net/Gross Weight (approx)	(kg)	340/380
		(lbs)	750/838
	Interior Dimension (W*D*H)	(mm)	1315*570*1525
		(in)	51.8*22.4*60.0
	Exterior Dimension (W*D*H)	(mm)	1420*630*1980
		(in)	55.9*24.8*78.0
	Packing Dimension (W*D*H)	(mm)	1550*875*2100
		(in)	61.0*34.5*82.7
	Container Load (20'/40'/40'H)		7/15/15
Alarms	High/Low Temperature		Y
	High Ambient Temperature		Y
	Door Ajar		Y
	Power Failure		Y
	Low Battery		Y
	Sensor Error		Y
	Communication Failure		Y
	Remote Alarm		Y
Accessories	Caster		4
	Foot		2
	Porthole		2 L&R on each side
	Clamp Fit		2 Sets
	Shelves/Drawers		1 Supporting Frame + 2 Adjustable Shleves
	Printer		Optional
	Chart Recorder		Optional
	USB Interface		Yes
	RS485		Optional
Others	Certification		CE

New Generation Pharmacy Refrigerator

Used for storage of medicines, vaccines, reagents, biological products and other items that require a temperature between 2-8°C in hospitals, pharmacies, pharmaceutical factories, clinics and laboratories as key examples.

Product Advantages

High performance with low noise level: 37dB(A)

Low energy consumption 2.2kWh /day

Ergonomic & innovative design, 7" touch screen, easy to check the cabinet emperature, alarm & event records; authority management is standard to avoid unauthorized access or change in settings

Triple-paned tempered glass door with frame heater to reduce condensation even at 32°C, 80% RH ambient; self-closing door with 90° stop; magnetic gaskets to ensure a positive seal

Multiple alarm functions for safer monitoring, audible/visual alert with mute function; remote alarm contact is equipped as standard

Anti-freezing thermostat is available to protect store items from freezing, which is DIN13277 compliance

Energy efficient interior LED lighting, side-mounted for complete clear visibility of the internal area

Standard USB module to easily record and export cabinet temperature and alarm data; Standard RS485 port and remote alarm contact for ease of external connection; optional printer to efficiently export cabinet temp data

Microprocessor controller, smart inverter compressor, optimized air-cooling technology with auto defrost to ensure excellent cooling performance, defrost water to evaporate automatically

Two 25mm probe access ports on each side wall to accept user-provided monitoring equipment

Adjustable plastic-coated wire shelves for improved circulation and flexible storage, 4 swivel casters with 2 leveling feet for easy movement and fixing

Electromagnetic lock is standard to avoid unauthorized access

Electromagnetic lock

Product simulator

Ergonomic handle

Access port

Triple layer glass door

Product simulator

Self-closing door hinge

4 casters + 2 leveling feet

Key lock

7"touch screen

Fingerprint reader (optional)

NFC reader

Access port

LED light

Adjustable shelf

Basket (optional)

NEW

HYC-1030GT

Cabinet Temperature
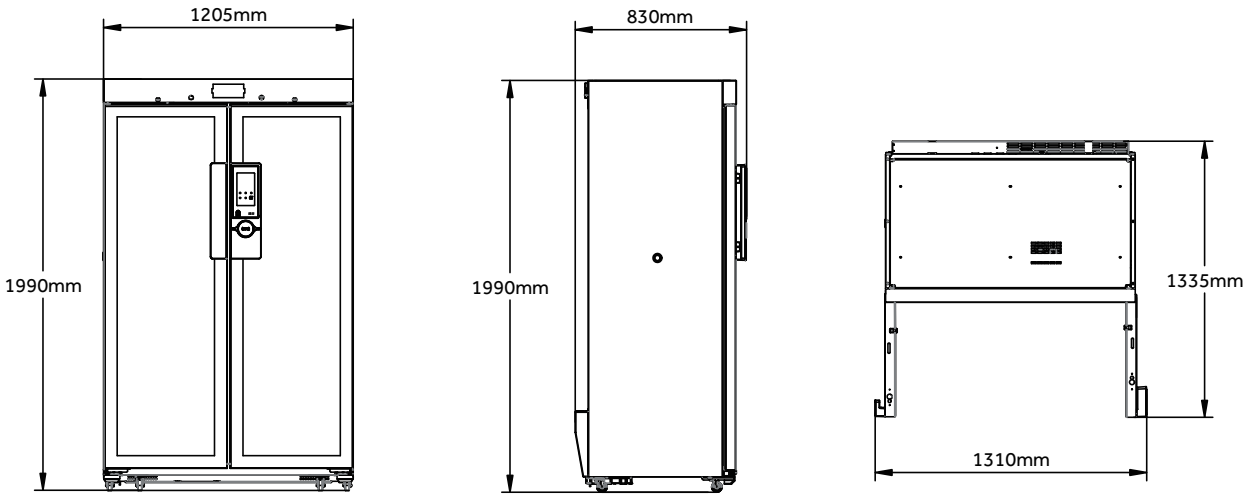
1205mm

1990mm

830mm

1990mm

1335mm

1310mm

Used for storage of medicines, vaccines, reagents, biological products and other items that require a temperature between 2-8°C in hospitals, pharmacies, pharmaceutical factories, clinics and laboratories etc.

Product Advantages

Low energy consumption: 2.5 kWh/day [1]

Excellent performance: temperature uniformity ≤±1°C [2]

Quiet operation: 39dB (A)

Intelligent anti-condensation: triple-paned tempered glass door with door frame heater, effectively reduces condensation even at 32°C, 80% RH ambient temperature

Optional USB, RS485 and printer, easy to export temperature data; all events and alarms will be recorded by the USB module

Eco-friendly hydrocarbon refrigerant (R290)and CFC-free polyurethane insulation for reduced global warming

Hermetically sealed compressor, forced-air circulation and automatic defrost to ensure high cooling performance

Self-closing door with magnetic gasket for positive seal

Microprocessor controller, display with resolution of 0.1°C

Multiple alarm functions for safer monitoring

* [1]&[2]: Tested by TUV according to DIN13277

NEW

Microcomputer control display

Built-in key lock

Porthole, easy for users to test interior temperature

Three-layer tempered glass door

Self-closing hinge

Optional USB interface

LED light

Adjustable shelves

Full-length door handle

4 casters+2 adjustable leveling legs

HYC-1031GD

Cabinet Temperature
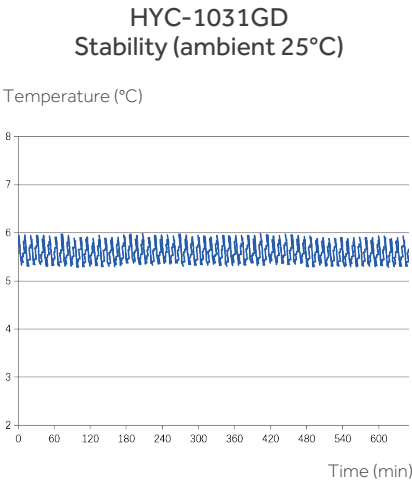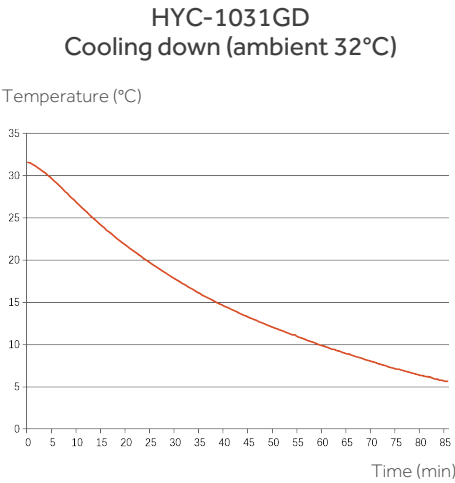
HYC-1031GD
Cooling down (ambient 32°C)

Temperature (°C)

Time (min)

HYC-1031GD
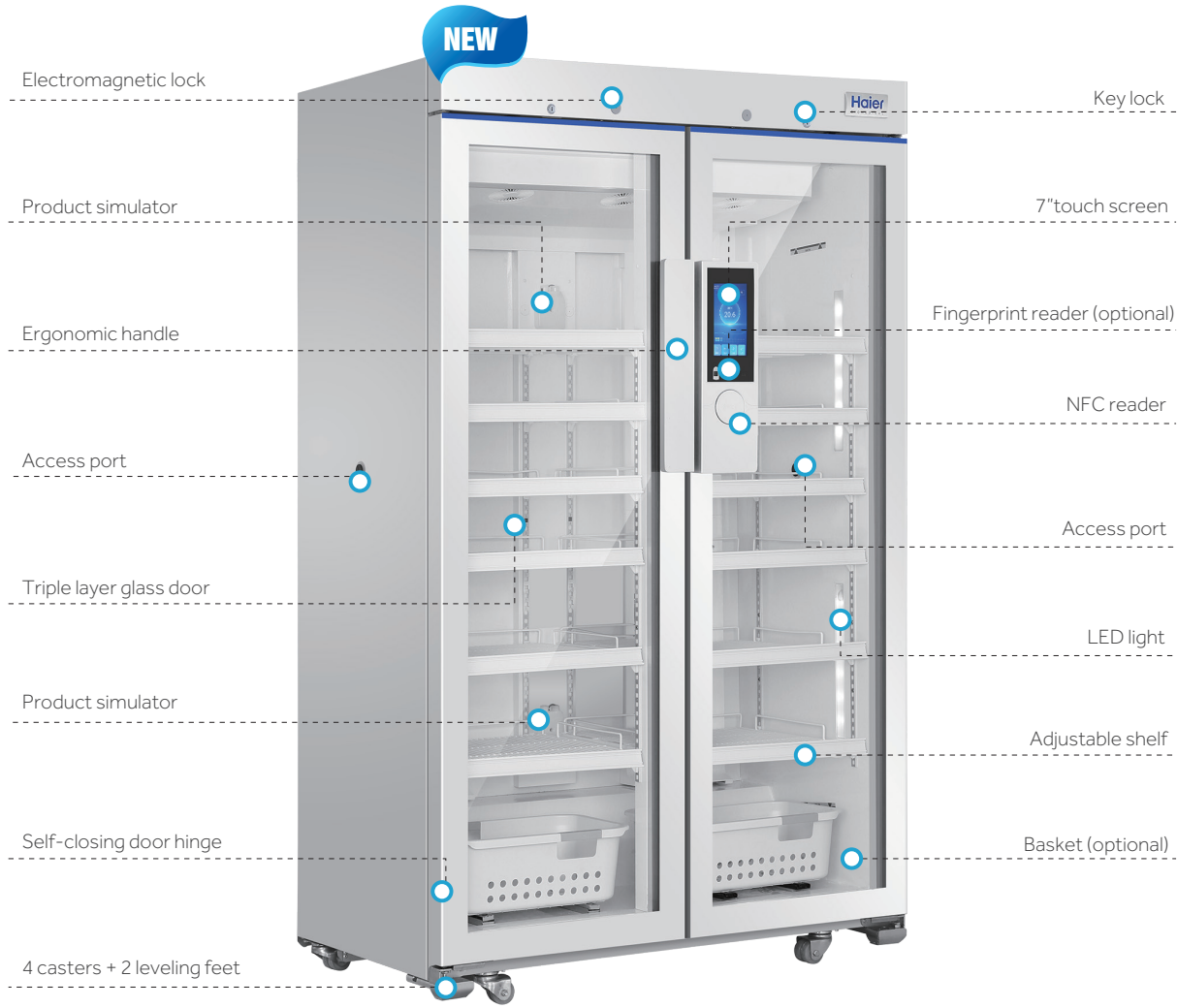Stability (ambient 25°C)

Temperature (°C)

Time (min)

New Generation Pharmacy Refrigerator

Used for storage of medicines, vaccines, reagents, biological products and other items that require a temperature between 2-8° C in hospitals, pharmacies, pharmaceutical factories, clinics and laboratories etc.

Product Advantages

Eco-friendly hydrocarbon refrigerant (R290) and CFC- free polyurethane insulation for reduced global warming potential.

Hermetically sealed compressor, forced-air circulation with auto defrost to ensure high cooling performance, temperature uniformity ≤±1.5°C; anti-freezing thermostat is available to protect store items from freezing.

Self-closing door hinge with 90° stop; Magnectic gaskets to ensure a positive seal.

Energy efficient interior LED lighting, side-mounted to enlighten full space.

Optional USB module to easily record and export cabinet temperature and alarm data; optional RS485 port for easily external connection; optional printer to easily export cabinet temp data .
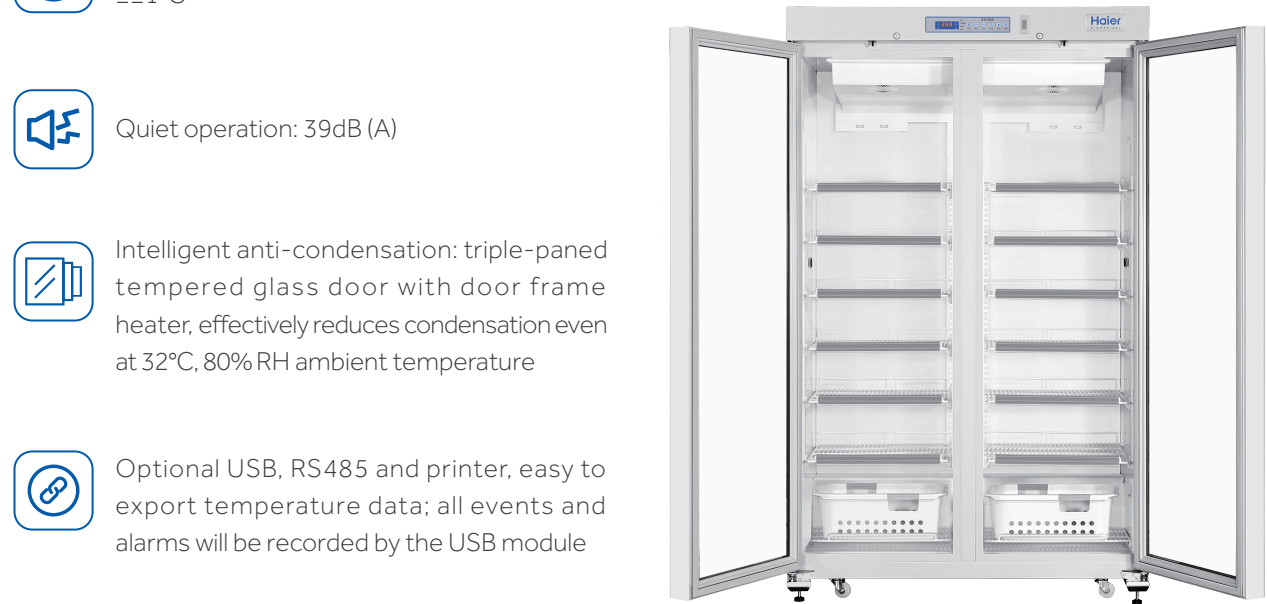
Two 25mm probe access port on each side wall to accept user-provided monitoring equipment.

Multiple alarm functions for safer monitoring, audible/visual alert with mute function; remote alarm contact is equipped as standard.

Convenient security with a top-mounted unique-key lock.

4 swivel casters with 2 leveling feet for easily movement and fxing.

Microprocessor controller, digital display with 0.1° C resolution; easy to check the min/max temperature in the past 24 hours.

Adjustable plastic-coated wire shelves for improved circulation and fexible storage.

Microprocessor controller — USB (optional)

LED light

Access port — Access port

Solid door

Adjustable shelf

Lower shelf

4 casters + 2 leveling feet

HYC-1031FD

Product Dimension

Front view — 1205, 1990

Side view — 830, 1990

Top view — 1205, 1330, 1320

New Generation Pharmacy Refrigerator

Specifications

Model			HYC-1030GT	HYC-1031GD		HYC-1031FD
Technical Data	Cabinet Type		Upright, Glass Door	Upright, Glass Door		Upright, Solid Door
	Climate Class		N, 16~32°C	N, 16~32°C		N, 16~32°C
	Cooling Type		Forced Air Cooling	Forced Air Cooling		Forced Air Cooling
	Defrost Mode		Auto	Auto		Auto
	Refrigerant		R600a	R290		R290
	GWP (global warming potential)		20	3		3
	Sound Level (dB(A))		37	39		39
Performance	Temperature Range (°C)		2~8	2~8		2~8
Control	Controller		Microprocessor	Microprocessor		Microprocessor
	Display		LED	LED		LED
Electrical Data	Power Supply (V/Hz)		220-240/50/60	220-240/50/60	115V/60	220-240/50/60
	Electrical Current (A)		2.2	2.2	3.6	2.2
Performance Characteristics	Temperature Sensor		NTC	NTC		NTC
	Power Consumption (kWh/24h)		2.2	2.48	2.04	2.48
Dimensions	Capacity (L/Cu.Ft)		1030 / 36.4	1031/36.4		1031 / 36.4
	Net/Gross Weight (approx)	(kg)	265/275	255/265		255/265
		(lbs)	584/606	562/584		562/584
	Interior Dimensions (W*D*H)	(mm)	1115*590*1670	1115*590*1670		1115*590*1670
		(in)	43.9*23.2*65.7	43.9*23.2*65.7		43.9*23.2*65.7
	Exterior Dimensions (W*D*H)	(mm)	1205*830*1990	1205*800*1990		1205*830*1990
		(in)	47.4*32.7*78.3	47.4*31.5*78.3		47.4*32.7*78.3
	Packing Dimensions (W*D*H)	(mm)	1310*925*2150	1310*925*2150		1310*925*2150
		(in)	51.6*36.4*84.6	51.6*36.4*84.6		51.6*36.4*84.6
	Container Load (20'/40'/40'H)		10/21/21	10/21/21		10/21/21
Alarms	High/Low Temperature		Y	Y		Y
	High Ambient Temperature		Y	Y		Y
	Door Ajar		Y	Y		Y
	Power Failure		Y	Y		Y
	Low Battery		Y	Y		Y
	Sensor Error		Y	Y		Y
	Communication Failure		Y	Y		Y
	Condenser Heat		Y	Y		Y
	Remote Alarm		Y	Y		Y
	Audible and Visual Alarm		Y	Y		Y
Accessories	Caster		4	4		4
	Foot		2	2		2
	Porthole		2	2		2
	Shelves/Drawers		14/-	14/-		14/-
	Printer		Optional	Optional		Optional
	Chart Recorder		N/A	N/A		N/A
	USB Interface		Standard	Optional		Optional
	RS485		Optional	Optional		Optional
	Electromagnetic Lock		Standard	N/A		N/A
	Plastic Basket		Optional	Optional		Optional
Material	Exterior Material		Painted Steel	Painted Steel		Painted Steel
	Interior Material		Painted Steel	Painted Steel		Painted Steel
	Door Thickness (mm)		50	50		50
	Cabinet Thickness (mm)		45	45		45
	Shelves Material		Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic		Steel Wire, Coated with Plastic
	No. of Shelves		12+2	12+2		12+2
Others	Certification		CE, DIN13277 (Optional)	CE, DIN13277 (Optional)	UL, Energy Star	CE, DIN13277 (Optional)

Used for storage of medicines, vaccines, reagents, biological products and other items that require a temperature between 2-8° C in hospitals, pharmacies, pharmaceutical factories, clinics and laboratories etc.
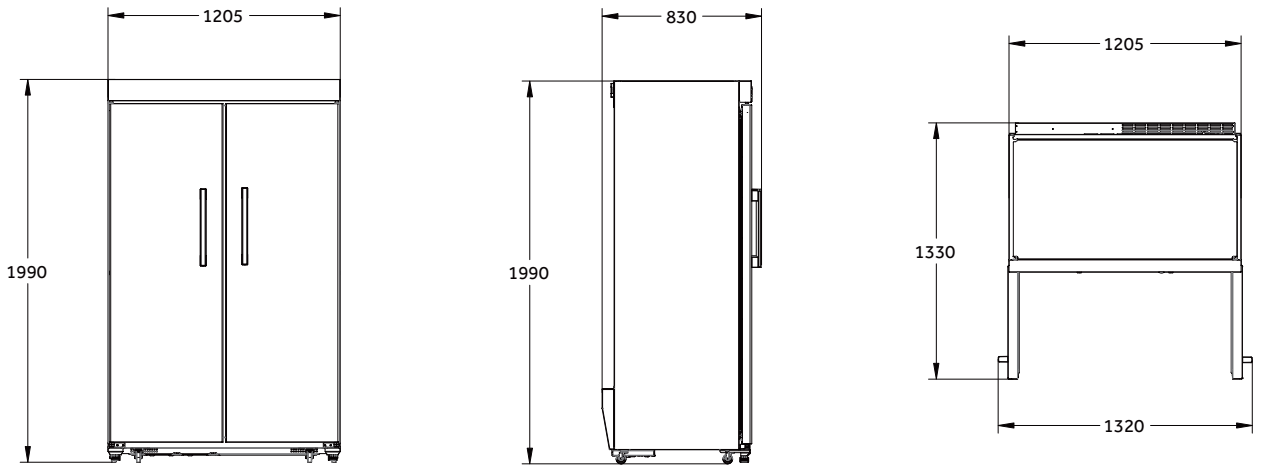
Product Advantages

Eco-friendly hydrocarbon refrigerant (R600a) and CFC- free polyurethane insulation for reduced global warming potential

Hermetically sealed compressor, forced-air circulation with auto defrost to ensure superior cooling performance, temperature uniformity ≤±1.5°C; and a anti-freezing thermostat is available to protect store items from freezing

Optional USB module to easily record and export cabinet temperature and alarm data; optional RS485 port for effortless external connection; and optional printer to export cabinet temperature data

Multiple alarm functions for safer monitoring, audible/visual alert with mute function; remote alarm contact is equipped as standard

Convenient security with a top-mounted unique-key lock

Adjustable plastic-coated wire shelves for improved circulation and flexible storage

HYC-461GD:
Triple-paned tempered glass door with frame heater to reduce condensation even at 32° C, 80% RH ambient; self- closing door hinge; magnetic gaskets to ensure a positive seal
HYC-461FD:
Self-closing door hinge; Magnectic gaskets to ensure a positive seal

Energy efficient interior LED lighting, side-mounted to enlighten full space

A φ 25mm probe access port is standard on side wall to accept user-provided monitoring equipment

4 swivel casters with 2 leveling feet for easy movement and fixing

Microprocessor controller, digital display with 0.1°C resolution; easy to check the min/max temperature in the past 24 hours; password protect function is available to avoid unauthorized setting.

Pharmacy Refrigerator Solutions

New Generation Pharmacy Refrigerator

NEW

Microprocessor controller

USB (optional)

Key lock

Access port

Triple-layer glass door

Full height handle

LED light

Adjustable shelf

Hasp for padlock

Product simulator

LED light

Self-closing door

Plastic basket (optional)

Bottom located shelf

4 casters + 2 leveling feet

HYC-461GD

Specifications

	Model	HYC-461GD	HYC-461GD (115V)	HYC-461FD	HYC-461FD (115V)
Technical Data	Cabinet Type	Upright, Glass Door		Upright, Solid Door	
	Climate Class	N, 16~32°C		N, 16~32°C	
	Cooling Type	Forced Air Cooling		Forced Air Cooling	
	Defrost Mode	Auto		Auto	
	Refrigerant	R600a		R600a	
	GWP (global warming potential)	20		20	
	Sound Level (dB(A))	37		37	
Performance	Temperature Range (°C)	2~8		2~8	
Control	Controller	Microprocessor		Microprocessor	
	Display	LED		LED	
Electrical Data	Power Supply (V/Hz)	220~240/50	115/60	220~240/50	115/60
	Power(W)	310	230	310	230
	Electrical Current (A)	1.7	3.1	1.7	3.1
Performance Characteristics	Temperature Sensor	NTC		NTC	
	Power Consumption (kWh/24h)	1.85	1.33	1.85	1.33
Dimensions	Capacity (L/Cu.Ft)	461/16.3		461 / 16.3	
	Net/Gross Weight (approx) kg	115/125		115/125	
	lbs	254/276		254/276	
	Interior Dimensions (W*D*H) mm	500*590*1670		500*590*1670	
	in	19.7*23.2*65.7		19.7*23.2*65.7	
	Exterior Dimensions (W*D*H) mm	595*800*1990		595*800*1990	
	in	23.4*31.5*78.3		23.4*31.5*78.3	
	Packing Dimensions (W*D*H) mm	720*930*2100		720*930*2100	
	in	28.3*36.6*82.7		28.3*36.6*82.7	
	Container Load (20'/40'/40'H)	18/37/37		18/37/37	
Alarms	High/Low Temperature	Y		Y	
	High Ambient Temperature	Y		Y	
	Door Ajar	Y		Y	
	Power Failure	Y		Y	
	Low Battery	Y		Y	
	Sensor Error	Y		Y	
	Communication Failure	Y		Y	
	Condenser Heat	Y		Y	
	Remote Alarm	Y		Y	
Accessories	Caster	4		4	
	Foot	2		2	
	Porthole	2		2	
	Shelves/Drawers	6/-		6/-	
	Printer	Optional		Optional	
	Chart Recorder	N/A		N/A	
	USB Interface	Optional		Optional	
	RS485	Optional		Optional	
	Electromagnetric Lock	N/A		N/A	
	Plastic Basket	Optional		Optional	
Material	Exterior Material	Painted Steel		Painted Steel	
	Interior Material	Polystyrene		Polystyrene	
	Door Thickness (mm)	50		50	
	Cabinet Thickness (mm)	45		45	
Others	Certification	CE, DIN13277 (Optional)	UL, Energy Star	CE, DIN13277 (Optional)	UL, Energy Star

Pharmacy Refrigerator Solutions

New Generation Pharmacy Refrigerator

Used for storage of medicines, vaccines, reagents, biological products and other items in hospitals, pharmacies, pharmaceutical factories, clinics and laboratories etc.

- Purpose-built for medical and laboratory use
- High performance with low noise level
- Eco-friendly and energy saving
- Condensation free even at ambient 32°C & 80% RH
- Convenient monitoring and data acquisition

HYC-130GD/FD

Product Features

Eco-friendly hydrocarbon refrigerant (R600a) and CFC-free polyurethane insulation for reduced global warming potential
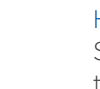
Hermetically sealed compressor, forced-air circulation with auto defrost to ensure high cooling performance

Adjustable plastic-coated wire shelves for improved circulation and flexible storage

25mm probe access port to accept user- provided monitoring equipment

Optional USB, optional RS485 for easy data acquisition

Quiet operation with noise level of only 37dB(A)

HYC-130GD: Triple layer glass door with frame heater to achieve condensation free even at 32°C, 80% RH ambient; magnetic gaskets to ensure a positive seal

HYC-130FD: Self-closing door hinge with 10° stop; Magnectic gaskets to ensure a positive seal

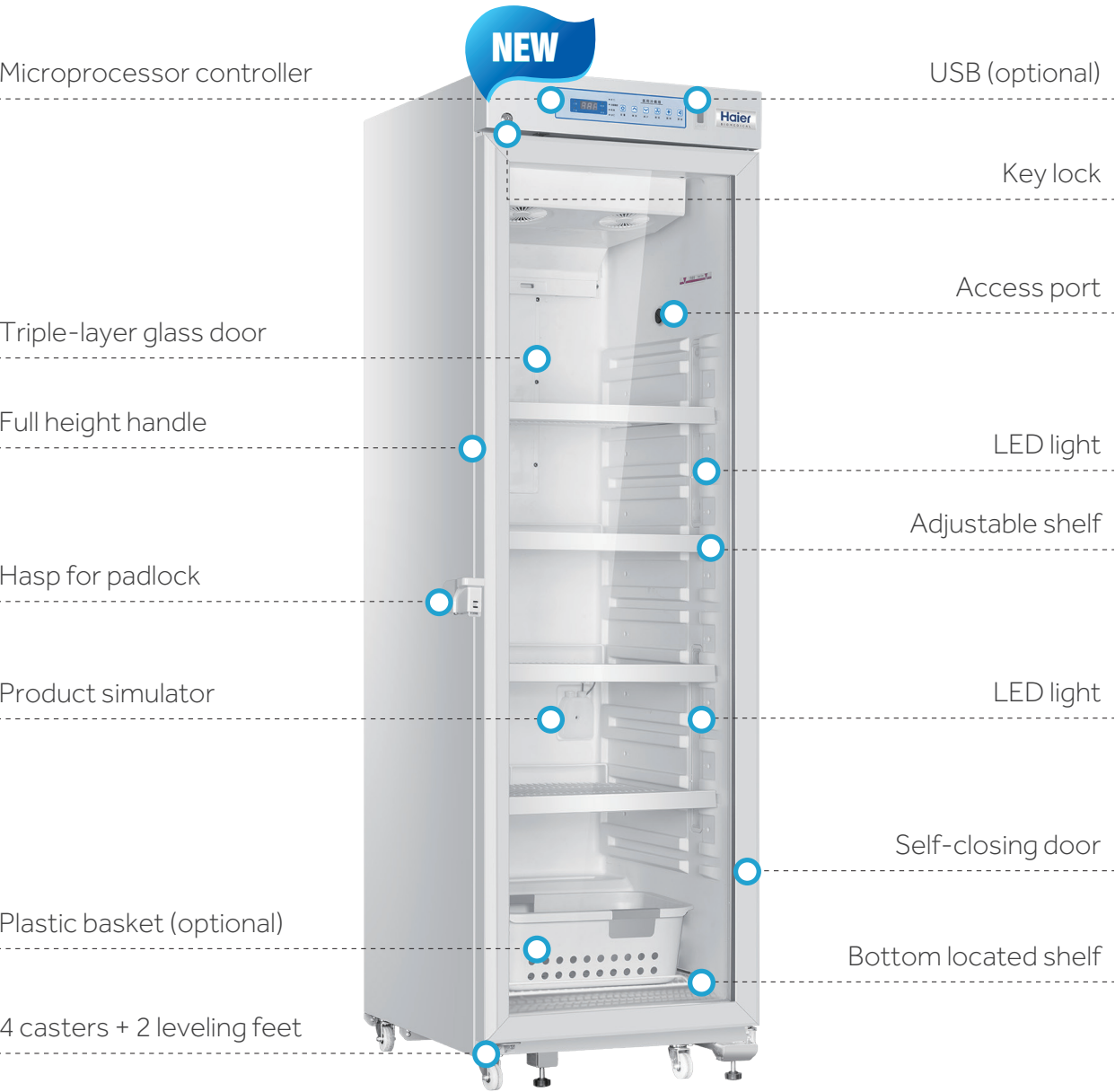Multiple alarm functions for safer monitoring, audible/ visual alert with mute function; remote alarm contacts as standard in rear of the unit

Easy to check the min/max temperature in the past 24 hours

Microprocessor controller, wipe clean display with 0.1°C resolution for accurate control

Energy efficient interior LED lighting

Product Details

NEW

- Wipe clean control panel
- LED light
- Adjustable shelf
- Basket
- Leveling feet
- USB (optional)
- Key lock
- Access port
- Recessed handle
- Product simulator
- Triple layer glass door
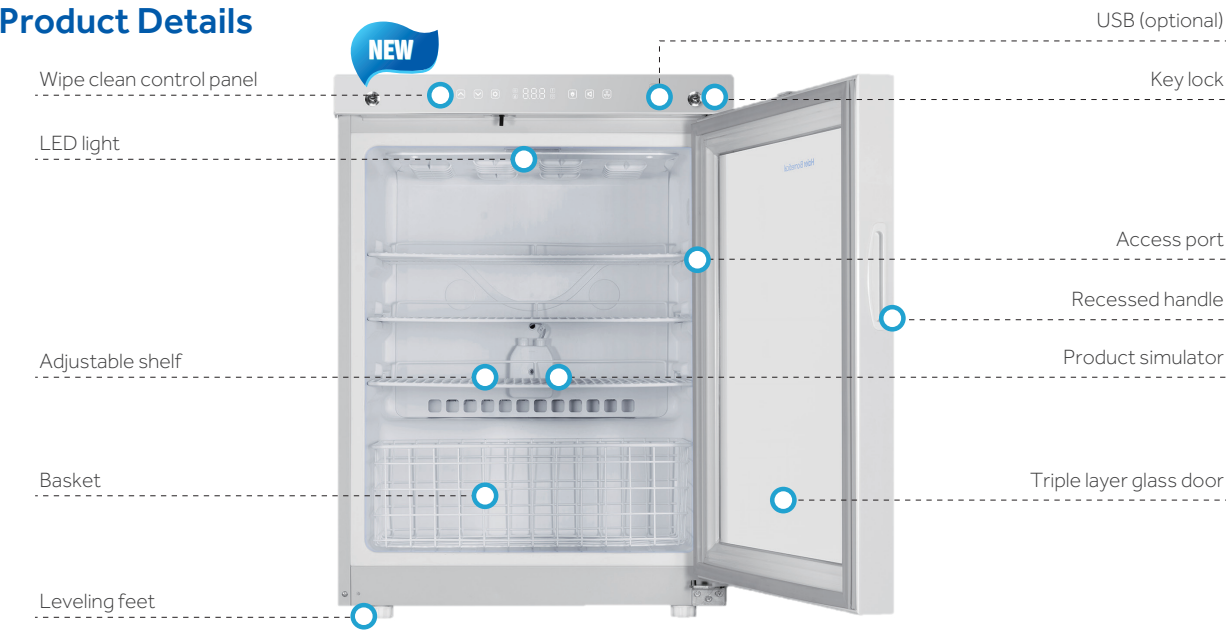
Specifications

	Model		HYC-130GD	HYC-130GD (115V)
Technical Data	Cabinet Type		Under-Counter, Glass Door	
	Climate Class (°C)		N, 16~32	
	Cooling Type		Forced Air Cooling	
	Defrost Mode		Auto	
	Refrigerant		R600a, 30g	
	GWP (Global Warming Potential)		20	
	Sound Level (dB(A))		37	
Performance	Temperature Range (°C)		2~8	
Control	Will the fan stop automatically when opening the door		Y	
	Controller		Microprocessor	
	Display		LED	
Electrical Data	Power Supply (V/Hz)		220~240/50/60	115/60
	Power (W)		180	
Performance Characteristics	Temperature Sensor		NTC	
	Power Consumption (kWh/24h)		1	
Dimensions	Capacity (L/Cu.Ft)		130 / 4.6	
	Net/Gross Weight (approx)	kg	48 / 52	
		lbs	105.8 / 114.6	
	Interior Dimensions (W*D*H)	mm	515*455*625	
		in	20.3*17.9*24.6	
	Exterior Dimensions (W*D*H)	mm	595*670*840	
		in	23.4*26.4*33.1	
	Packing Dimensions (W*D*H)	mm	670*730*890	
		in	26.4*28.7*35.0	
	Container Load (20'/40'/40'H)		48/102/102	
Alarms	High/Low Temperature		Y	
	High Ambient Temperature		Y	
	Door Ajar		Y	
	Power Failure		Y	
	Low Battery		Y	
	Sensor Error		Y	
	Communication Failure		Y	
	Condenser Heat		N	
	Remote Alarm		Y	
	Audible and Visual Alarm		Y	
Accessories	Caster		2	
	Foot		2	
	Porthole		1 Right Side Wall	
	Shelves/Basket		3/1	
	Printer		N/A	
	Chart Recorder		N/A	
	USB Interface		Optional	
	RS485		Optional	
Material	Exterior Material (mm)		Painted Steel	
	Insulation Material (mm)		Polystyrene	
	Door Thickness		50	
	Cabinet Thickness		45	
	Shelves Material		Steel Wire, Coated with Plastic	
Others	Certification		CE, UKCA, DIN13277 (Optional)	UL, Energy Star (to be issued)

Pharmacy Refrigerator Solutions

New Generation Pharmacy Refrigerator

Model			HYC-130FD	HYC-130FD(115V)
Technical Data	Cabinet Type		Under-Counter, Solid Door	
	Climate Class (°C)		N, 16~32	
	Cooling Type		Forced Air Cooling	
	Defrost Mode		Auto	
	Refrigerant		R600a, 30g	
	GWP (Global Warming Potential)		20	
	Sound Level (dB(A))		37	
Performance	Temperature Range (°C)		2-8	
Control	Will the fan stop automatically when opening the door		Y	
	Controller		Microprocessor	
	Display		LED	
Electrical Data	Power Supply (V/Hz)		220-240/50/60	115/60
	Power (W)		180	
Performance Characteristics	Temperature Sensor		NTC	
	Power Consumption (kWh/24h)		0.55	
Dimensions	Capacity (L/Cu.Ft)		130 / 4.6	
	Net/Gross Weight (approx)	kg	48 / 52	
		lbs	105.8 / 114.6	
	Interior Dimensions (W*D*H)	mm	515*455*625	
		in	20.3*17.9*24.6	
	Exterior Dimensions (W*D*H)	mm	595*670*840	
		in	23.4*26.4*33.1	
	Packing Dimensions (W*D*H)	mm	670*730*890	
		in	26.4*28.7*35.0	
	Container Load (20'/40'/40'H)		48/102/102	
Alarms	High/Low Temperature		Y	
	High Ambient Temperature		Y	
	Door Ajar		Y	
	Power Failure		Y	
	Low Battery		Y	
	Sensor Error		Y	
	Communication Failure		Y	
	Condenser Heat		N	
	Remote Alarm		Y	
	Audible and Visual Alarm		Y	
Accessories	Caster		2	
	Foot		2	
	Porthole		1 Right Side Wall	
	Shelves/Basket		3/1	
	Printer		N/A	
	Chart Recorder		N/A	
	USB Interface		Optional	
	RS485		Optional	
Material	Exterior Material (mm)		Painted Steel	
	Insulation Material (mm)		Polystyrene	
	Door Thickness		50	
	Cabinet Thickness		45	
	Shelves Material		Steel Wire, Coated with Plastic	
Others	Certification		CE, UKCA, DIN13277 (Optional)	UL, Energy Star(to be issued)

Used for storage of medicines, vaccines, reagents, biological products and other items that require a temperature between 2-8°C in hospitals, pharmacies, pharmaceutical factories, clinics and laboratories etc.

Product Advantages

🔗 User reversible door hinge

⏲ Excellent performance: temperature uniformity ≤±1°C [1]

📢 Quiet operation: 35dB (A)

▭ Magnetic gasket for positive seal

🔔 Multiple alarms for safer monitoring

* [1] Tested by TUV according to DIN13277

HYC-85GD:
Intelligent anti-condensation: triple-paned tempered glass door with door frame heater, effectively reduces condensation even at 32°C, 80% RH ambient temperature

HYC-85FD:
CFC-free solid door, highly effective insulation

🔗 Optional USB and RS485, easy to export temperature data

Eco-friendly hydrocarbon refrigerant (R600a) and CFC-free polyurethane insulation for reduced global warming

Hermetically sealed compressor, forced-air circulation and automatic defrost to ensure high cooling performance

Microprocessor controller, display with resolution of 0.1°C

New Generation Pharmacy Refrigerator

User reversible hinge

Built-in door handle

Product simulator

Three-layer tempered glass door

Magnetic gasket

LED light

Dual fans

Porthole, easy for users to test interior temperature

Adjustable shelves

1 Basket convenient storage

Adjustable feet

HYC-85GD

Cabinet Temperature

HYC-85GD
Cooling down (ambient 32°C)

Temperature (°C)

Time (min)

HYC-85GD
Stability (ambient 25°C)

Temperature (°C)

Time (min)
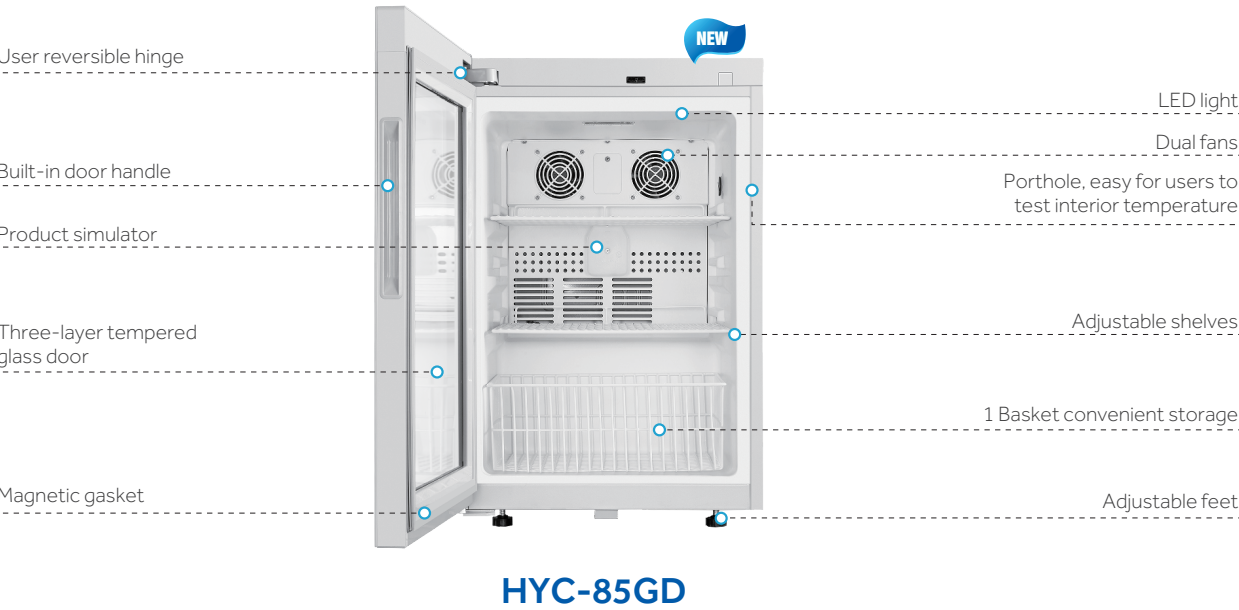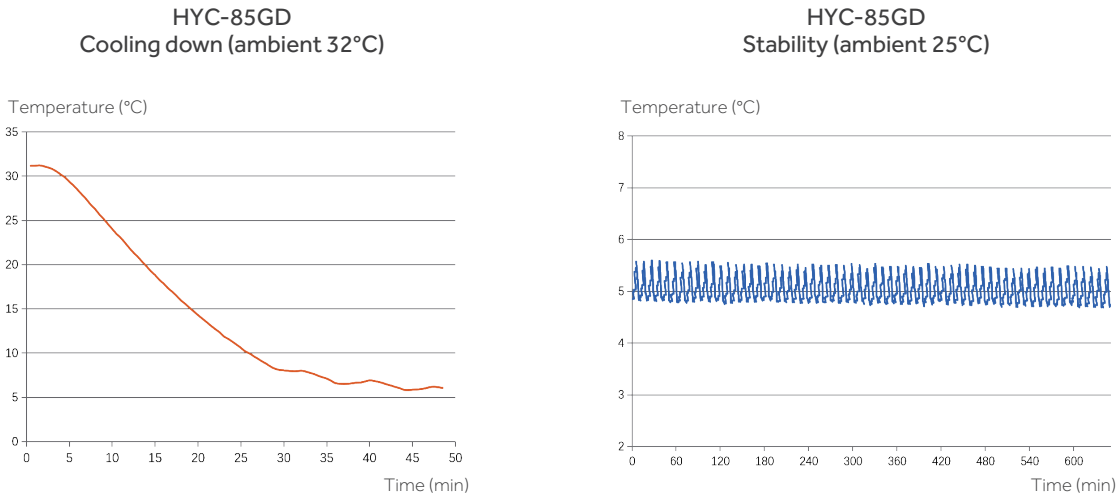
Specifications

	Model		HYC-85GD		HYC-85FD
Technical Data	Cabinet Type		Counter-Top / Under-Counter, Glass Door		Counter-Top / Under-Counter, Solid Door
	Climate Class (°C)		N, 16~32		N, 16~32
	Cooling Type		Forced Air Cooling		Forced Air Cooling
	Defrost Mode		Auto		Auto
	Refrigerant		R600a, 45g		R600a, 45g
	GWP(global warming potential)		20		20
	Sound Level (dB(A))		35		35
Performance	Temperature Range (°C)		2~8		2~8
Control	Will the fan stop automatically when opening the door		Y		Y
	Controller		Microprocessor		Microprocessor
	Display		LED		LED
Electrical Data	Power Supply (V/Hz)		220~240/50	115V/60	220~240/50
	Electrical Current (A)		0.98	1.2	0.98
Performance Characteristics	Temperature Sensor		NTC		NTC
	Power Consumption (kWh/24h)		0.99	0.72	0.5
Dimensions	Capacity (L/Cu.Ft)		85/3.0		85/3.0
	Net/Gross Weight(approx)	kg	36 / 41		33 / 38
		lbs	79.4 / 90.4		72.8 / 83.9
	Interior Dimensions (W*D*H)	mm	405*405*555		405*405*555
		in	15.9*15.9*21.9		15.9*15.9*21.9
	Exterior Dimensions (W*D*H)	mm	495*550*740		495*550*740
		in	19.5*21.7*29.1		19.5*21.7*29.1
	Packing Dimensions (W*D*H)	mm	590*650*830		590*650*830
		in	23.2*25.6*32.7		23.2*25.6*32.7
	Container Load (20'/40'/40'H)		54/120/180		54/120/180
Alarms	High/Low Temperature		Y		Y
	High Ambient Temperature		Y		Y
	Door Ajar		Y		Y
	Power Failure		Y		Y
	Low Battery		Y		Y
	Sensor Error		Y		Y
	Communication Failure		Y		Y
	Condenser Heat		N		N
	Remote Alarm		Y		Y
	Audible and Visual Alarm		Y		Y
Accessories	Caster		2		2
	Foot		2		2
	Porthole		1		1
	Shelves/Basket		2/1		2/1
	Printer		N/A		N/A
	Chart Recorder		N/A		N/A
	USB Interface		Optional		Optional
	RS485		Optional		Optional
Material	Exterior Material		Painted Steel		Painted Steel
	Interior Material		Polystyrene		Polystyrene
	Door Thickness (mm)		50		50
	Cabinet Thickness (mm)		45		45
	Shelves Material		Steel Wire, Coated with Plastic		Steel Wire, Coated with Plastic
Other	Certification		CE, UKCA, DIN13277 (Optional)	UL, Energy Star	CE, UKCA, DIN13277 (Optional)

NEW

Pharmacy Refrigerator Solutions

RFID Refrigerator

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
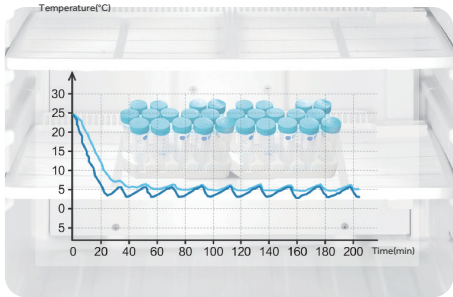
Precise Temperature Control Ultimate Safety of Test Reagents

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)

Dispatch
Define product information, record product information, and read product information

Perform RFID management when the stored items are dispatched to end users.

Application
Set up authorized users, and dispatch reagents. RFID automatically reads product information and receives information and updates the system

Storage
Specialty medical refrigerator maintains precise storage temperature between 2°C and 8°C

U Reagent Haier Biomedical's Smart Management System of Reagents and Medicine

Production
Schedule production based on product usage in the field and market share

Refill and Dispatch
Can analyze big data and reagent usage, automatically perform inventory check. Will alert to refill inventory. Will timely adjust inventory and make adjustments

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

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

App Operating System

Equipment Management
- Constant temperature precise control, timely alarm for abnormal temperature to ensure storage safety
- Real-time monitoring of devices

U Reagent Haier Biomedical's Smart Management System for Reagents

U*Reagent Management
- Low inventory alert to replenish stock
- Intelligent accounting, one-button statistics
- Real-time monitoring of inventory data
- Monitor the data in and out of the warehouse
- Automatic inventory counting

Authority Management
- NFC authorized management system with electromagnetic lock design makes material flow controllable
- Usage data recording makes the whole process traceable

Specifications

	Model		HYC-509R
Technical Data	Cabinet Type		Upright, Single Glass Door
	Climate Class		N
	Cooling Type		Forced Air Cooling
	Defrost Mode		Auto
	Refrigerant		R600a
	GWP (global warming potential)		20
	Sound Level (dB(A))		40
Performance	Temperature Range (°C)		2~8
Control	Controller		Microprocessor
	Display		Touchscreen + LED
Electrical Data	Power Supply (V/Hz)		220~240/50/60
	Electrical Current (A)		2
	Power Consumption (kWh/day)		6
Dimensions	Capacity (L/Cu.Ft)		509/17.97
	Net/Gross Weight (approx)	(kg)	180/215
		(lbs)	396/473
	Interior Dimensions (W*D*H)	(mm)	593*585*1500
		(in)	23.21*22.9*58.8
	Exterior Dimensions (W*D*H)	(mm)	693*813*1981
		(in)	27.1*31.9*77.7
	Packing Dimensions (W*D*H)	(mm)	835*915*2170
		(in)	32.9*36.0*85.4
	Container Load (20'/40'/40'H)		14/28/28
Alarms	High/Low Temperature		Y
	High Ambient Temperature		Y
	Remote Alarm		Y
	Power Failure		Y
	Low Battery		Y
	Door Ajar		Y
Accessories	Caster		Y
	Foot		Y
	Porthole		Y
	Shelves/Drawers		6
	USB Interface		Y
Others	Certification		CE

Advanced Pharmacy Refrigerator with Touchscreen

Advanced Pharmacy Refrigerator with LED Display

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

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

Product Advantages

Microprocessor controller, 7-inch touch screen, easy to check the cabinet temperature graph, alarm & event records and other information; authority management is standard to avoid unauthorized access or incorrect settings

Excellent cooling performance, temperature uniformity ≤±2°C; anti-freezing thermostat is equipped as standard, DIN13277 compliance

Double-paned tempered glass door with electronic heater to reduce condensation even at 32°C, 80% RH ambient; self-closing door hinge with 90° stop; magnetic gaskets to ensure a positive seal (Solid door type is also available upon request)

Electromagnetic lock is standard to avoid unauthorized access

LED Energy efficient interior LED lighting

Eco-friendly hydrocarbon refrigerant (R600a) and CFC-free polyurethane insulation for reduced global warming

Hermetically sealed compressor, forced-air circulation with auto defrost to ensure high cooling performance

Multiple alarm functions for safer monitoring, audible/visual alert with mute function; remote alarm contact is equipped as standard

ABS Adjustable plastic-coated wire shelves for improved circulation and flexible storage; fully extendable ABS drawer with divider is optional

25mm probe access port on side wall to accept user-provided monitoring equipment

4 universal casters with 2 leveling feet

Standard USB module to conveniently record and export cabinet temperature and alarm data; standard RS485 port and remote alarm contact for efficient external connection; optional printer to export cabinet temperature data

Product Advantages

Double-paned tempered glass door with electronic heater to reduce condensation even at 32° C, 80% RH ambient; self-closing door hinge with 90° stop; magnetic gaskets to ensure a positive seal

Microprocessor controller, digital display with 0.1°C resolution; easy to check the min/max temperature in the past 24 hours

ABS Adjustable plastic-coated wire shelves for improved circulation and flexible storage; fully extendable ABS drawer with divider is optional

Convenient security with a top-mounted unique-key lock; electromagnetic lock is optional to avoid unauthorized access

Eco-friendly hydrocarbon refrigerant (R600a) and CFC-free polyurethane insulation for reduced global warming

LED Energy efficient interior LED lighting

Standard USB module to conveniently record and export cabinet temperature and alarm data; Standard RS485 port and remote alarm contact for efficient external connection; optional printer to export cabinet temperature data

Multiple alarm functions for safer monitoring, audible/visual alert with mute function; remote alarm contact is equipped as standard

Excellent cooling performance, temperature uniformity ≤±2° C; anti-freezing thermostat is equipped as standard, DIN13277 compliance

Hermetically sealed compressor, forced-air circulation with auto defrost to ensure high cooling performance

25mm probe access port on side wall to accept user-provided monitoring equipment

4 universal casters with 2 leveling feet

Advanced Pharmacy Refrigerator with Touchscreen

Advanced Pharmacy Refrigerator with LED Display

Specifications

	Model	HYC-509T	HYC-509TF	HYC-1099T	HYC-1099TF	HYC-509	HYC-509F	HYC-1099	HYC-1099F
Technical Data	Cabinet Type	Upright, Single Glass Door	Upright, Single Solid Door	Upright, Double Glass Door	Upright, Double Solid Door	Upright, Single Glass Door	Upright, Single 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	R600a	R600a	R600a	R600a	R600a	R600a	R600a	R600a
	GWP (global warming potential)	20	20	20	20	20	20	20	20
	Sound Level (dB(A))	40	40	43	43	40	40	43	43
Performance	Temperature Range (°C)	2~8	2~8	2~8	2~8	2~8	2~8	2~8	2~8
Control	Will the fan stop automatically when opening the door	Y	Y	Y	Y	Y	Y	Y	Y
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	Touchscreen	Touchscreen	Touchscreen	Touchscreen	LED	LED	LED	LED
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
	Electrical Current (A)	1.85	1.75	2.5	2.25	1.85	1.75	2.5	2.25
Performance Characteristics	Temperature Sensor	PT100 + NTC	PT100 + NTC	PT100 + NTC	PT100 + NTC	PT100 + NTC	PT100 + NTC	PT100 + NTC	PT100 + NTC
	Power Consumption (kWh/24h)	5.9	5.3	6.8	6	5.9	5.3	6.8	6
Dimensions	Capacity (L/Cu.Ft)	509/17.97	509/17.97	1099/38.5	1099/38.5	509/17.97	509/17.97	1099/38.5	1099/38.5
	Net/Gross Weight (approx) kg	180/215	175/210	340/400	330/390	180/215	175/210	340/400	330/390
	Net/Gross Weight (approx) lbs	396/473	385/462	748/1000	726/858	396/473	385/462	748/1000	726/858
	Interior Dimensions (W*D*H) mm	593*585*1500	593*585*1500	1295*585*1500	1295*585*1500	593*585*1500	593*585*1500	1295*585*1500	1295*585*1500
	Interior Dimensions (W*D*H) in	23.21*22.9*58.8	23.21*22.9*58.8	50.7*22.9*58.8	50.7*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
	Exterior Dimensions (W*D*H) mm	693*813*1981	693*813*1981	1395*813*1981	1395*813*1981	693*813*1981	693*813*1981	1395*813*1981	1395*813*1981
	Exterior Dimensions (W*D*H) in	27.1*31.9*77.7	27.1*31.9*77.7	54.7*31.9*77.7	54.7*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
	Packing Dimensions (W*D*H) mm	835*915*2170	835*915*2170	1550*895*2100	1550*895*2100	835*915*2170	835*915*2170	1550*895*2100	1550*895*2100
	Packing Dimensions (W*D*H) in	32.9*36.0*85.4	32.9*36.0*85.4	61.0*35.3*82.7	61.0*35.3*82.7	32.9*36.0*85.4	32.9*36.0*85.4	61.0*35.3*82.7	61.0*35.3*82.7
	Container Load (20'/40'/40'H)	14/28/28	14/28/28	7/15/15	7/15/15	14/28/28	14/28/28	14/28/28	7/15/15
Alarms	High/Low Temperature	Y	Y	Y	Y	Y	Y	Y	Y
	High Ambient Temperature	Y	Y	Y	Y	Y	Y	Y	Y
	Door Ajar	Y	Y	Y	Y	Y	Y	Y	Y
	Power Failure	Y	Y	Y	Y	Y	Y	Y	Y
	Low Battery	Y	Y	Y	Y	Y	Y	Y	Y
	Sensor Error	Y	Y	Y	Y	Y	Y	Y	Y
	Communication Failure	Y	Y	Y	Y	Y	Y	Y	Y
	Remote Alarm	Y	Y	Y	Y	Y	Y	Y	Y
	Audible and Visual Alarm	Y	Y	Y	Y	Y	Y	Y	Y
Accessories	Condesenser Overheat	Y	Y	Y	Y	Y	Y	Y	Y
	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
	Test Hole	Y	Y	Y	Y	Y	Y	Y	Y
	Shelves/Drawers	6 on each side, clerance 19.5cm/Optional	6 on Each Side, Clerance 19.5cm/Optional	12/Optional	12/Optional	6 on Each Side, Clerance 19.5cm/Optional	6 on Each Side, Clerance 19.5cm/Optional	12/Optional	12/Optional
	Drawer Material	Steel Wire Dipping Plastic	Steel Wire Dipping Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire Dipping Plastic	Steel Wire Dipping Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic
	USB Interface	Y	Y	Y	Y	Y	Y	Y	Y
Material	Exterior Material	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
	Interior Material	Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel
	Door Thickness (mm)	50	50	50	50	50	50	50	50
	Cabinet Thickness (mm)	50	50	50	50	50	50	50	50
	Shelves Material	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic
	No. of Shelves	6	6	12	12	6	6	12	12
Others	Certification	CE, UKCA, DIN13277 (Optional)	CE, UKCA, DIN13277 (Optional)	CE, UKCA	CE, UKCA	CE, UKCA, DIN13277 (Optional)	CE, UKCA, DIN13277 (Optional)	CE, UKCA,DIN (optional)	CE, UKCA,DIN (optional)

Standard Pharmacy Refrigerator

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.

Microcomputer control Display/ control accuracy 0.1°C

Built-in key lock for secure storage

Optional USB, easy to export data

LED light, illuminate interior for easier product selection

2 temperature sensors

Electrically heated glass door prevents condensation

Self-closing door design

Padlock

Adjustable feet

4 casters, easy to move
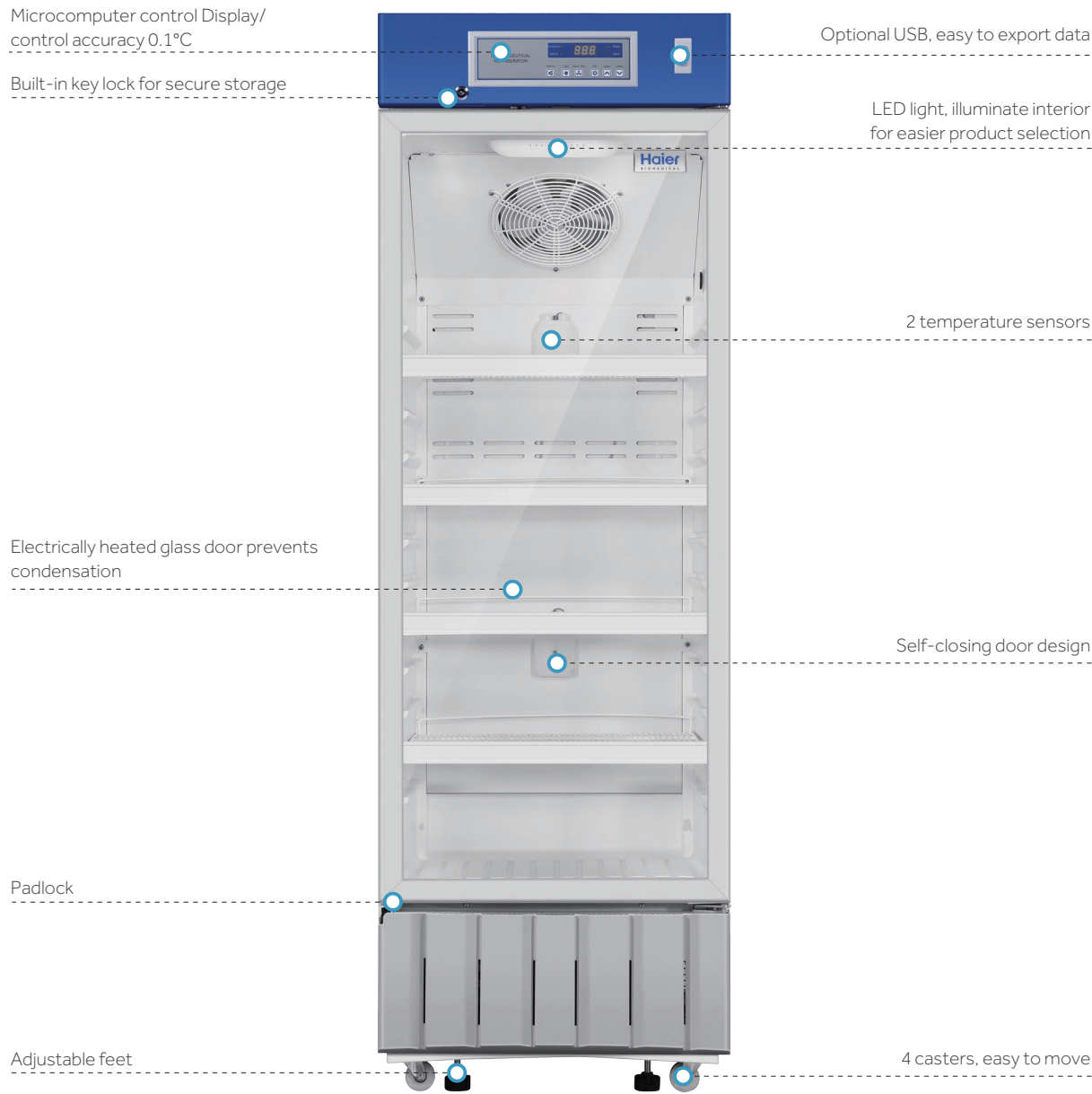
HYC-309

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

HYC-309
Cooling down (ambient 32°C)

Temperature (°C)

Time (min)

HYC-309
Stability (ambient 25°C)

Temperature (°C)

Time (min)
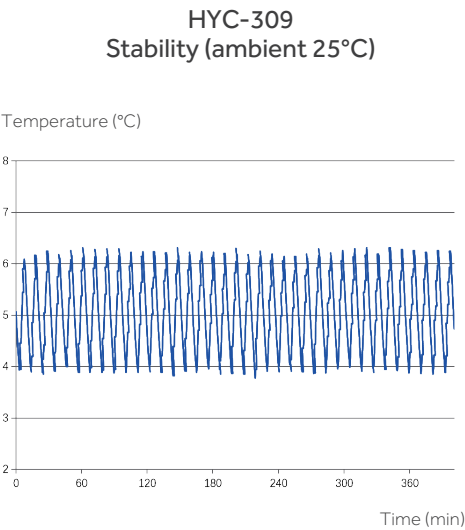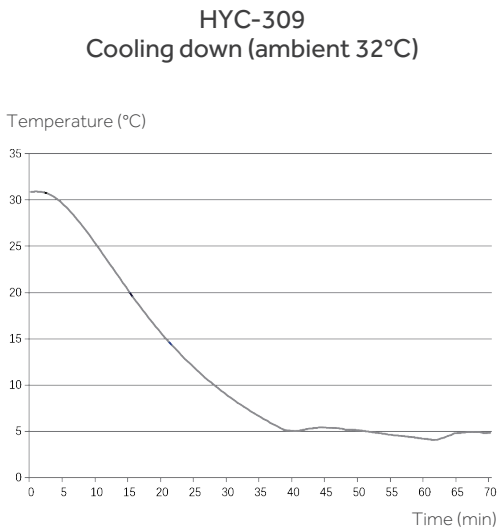
Standard Pharmacy Refrigerator

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

Optional Printer

Lock

Evaporator Fan

Padlock

Electric heated glass door

Caster

Display Panel

Optional USB Port

Access Port

Adjustable Shelf

Sealing Strip

Leveling Leg and Caster

HYC-390

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

Temperature Curve

HYC-390 Warm up test at 25°C ambient

HYC-390 Pull down test at 25°C ambient

Ambient Temperature
Internal Temperature

Pharmacy Refrigerator Solutions
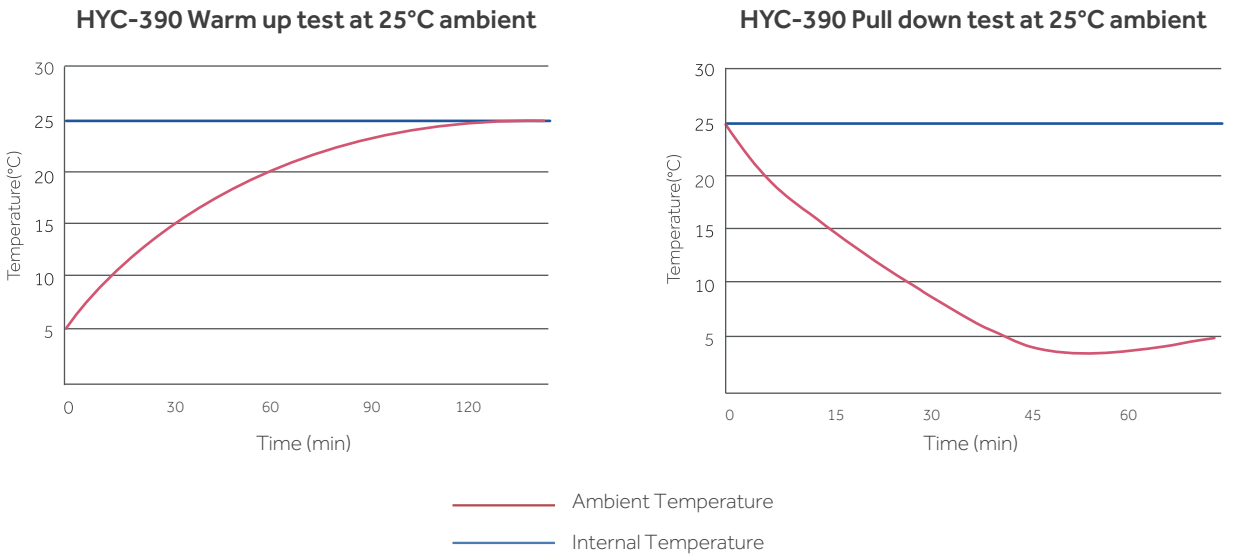
Standard Pharmacy Refrigerator

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.

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 interior temperature

Safe

- Equipped with built-in lock and security latch to accommodate a padlock, ensuring 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

HYC-410

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, the refrigerator is easy to move and stabilize

HYC-410

*Optional: USB, printer, RS485/232 interface

Product Performance

HYC-410
Cooling down (ambient 32°C)

Temperature (°C)

Time (min)
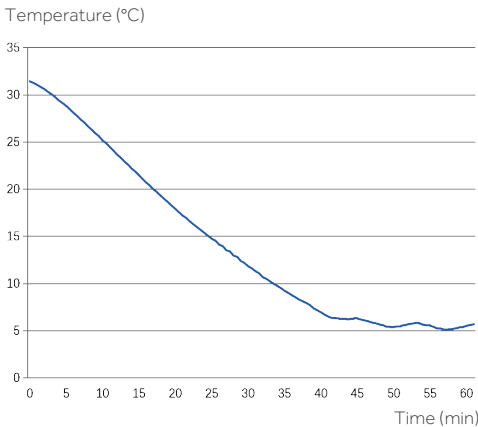
HYC-410
Stability (ambient 25°C)

Temperature (°C)

Time (min)
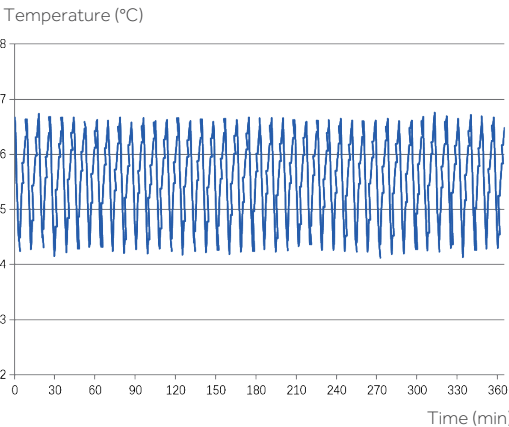
Standard Pharmacy Refrigerator

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

Low noise
Optimized system and structure noise reduction design

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

Multi-channel sensor, reliable and safe
Equipped with upper display sensor, lower display sensor, defrosting sensor, control sensor, ambient temperature sensor, condenser dirty sensor

Better uniformity
Finned evaporator, double fan system.
The temperature is more uniform, the characteristic point temperature uniformity is ±2°C

Typical Performance Characteristics in 32°C Ambient Temp

HYC-639
Cooling down (ambient 32°C)

Temperature (°C)

Time (min)
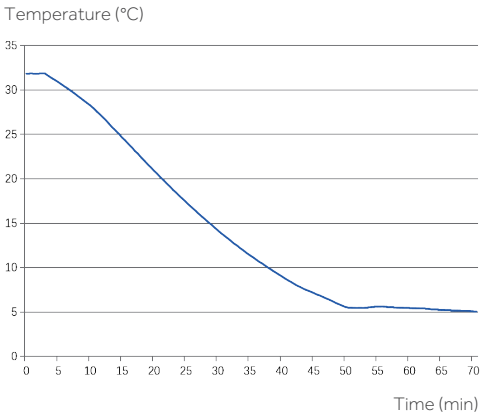
HYC-639
Stability (ambient 25°C)

Temperature (°C)

Time (min)
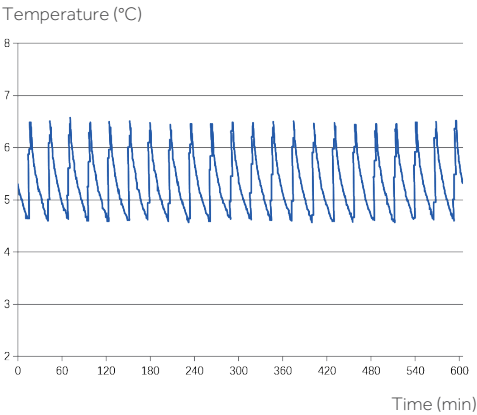
Standard Pharmacy Refrigerator

Microprocessor control system:

Microcomputer electronic temperature controller, LED temperature display, the display accuracy is 0.1°C

Multiple alarm functions, such as high temperature alarm, low temperature alarm, sensor error alarm, power failure alarm, low battery alarm, door ajar, condenser dirty alarm, high ambient temperature alarm as key examples.

Audio and visual alarm. The equipment can be 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 interior temperature

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 stabilize the equipment

Shelves

Standard equipped with 4 shelves

Specifications

Model		HYC-639	HYC-639 (115V)
Technical Data	Cabinet Type	Upright, Single Door	
	Climate Class	ST	
	Cooling Type	Forced Air Cooling	
	Defrost Mode	Digital (Accuracy 0.1°C)	Auto
	Refrigerant	R600a	
	GWP (global warming potential)	20	
	Sound Level (dB(A))	43	46
Performance	Temperature Range (°C)	2~8	
Control	Will the fan stop automatically when opening the door	Y	
	Controller	Microprocessor	
	Display	LED	
Electrical Data	Power Supply (V/Hz)	220~240/50	115/60
	Electrical Current (A)	2.15	2.5
Performance Characteristics	Temperature Sensor	NTC	
	Power Consumption (kWh/24h)	5	
	Capacity (L/Cu.Ft)	639/22.6	600/21.2
Dimensions	Net/Gross Weight (approx) (kg)	200/240	
	Net/Gross Weight (approx) (lbs)	551.15/639.33	
	Interior Dimension (W*D*H) (mm)	620*706*1520	
	Interior Dimension (W*D*H) (in)	24.4*27.8*59.8	
	Exterior Dimension (W*D*H) (mm)	760*897*1993	
	Exterior Dimension (W*D*H) (in)	29.9*35.3*78.5	
	Packing Dimension (W*D*H) (mm)	910*1030*2170	
	Packing Dimension (W*D*H) (in)	35.8*40.6*85.4	
	Container Load (20'/40'/40'H)	12/24/24	
Alarms	High/Low Temperature	Y	
	Remote Alarm	Y	
	Power Failure	Y	
	Sensor Error	Y	
	Low Battery	Y	
	Door Ajar	Y	
	Audible and Visual Alarm	Y	
Accessories	Caster	Y/4	
	Foot	Y/2	
	Porthole	Y	
	Shelves/Drawers	4/-	
	USB Interface	Y	
	Printer	Optional	
	Chart Recorder*	Optional	
Material	Exterior Material	Painted Steel	
	Interior Material	Painted Steel, Optional Stainless Steel	
	Door Thickness (mm)	30	
	Cabinet Thickness (mm)	70	
	Shelves Material	Steel Wire, Coated with Plastic	
	No. of Shelves	4	
Other	Certificate	CE, UKCA	UL, Energy Star, ANSI 456

*The Chart recorder is equiped with 1 box of recording paper (52 sheets, one sheet per week)

Pharmacy Refrigerator Solutions

Standard Pharmacy Refrigerator

The Haier Biomedical 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 legs 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 uniformity within ±2°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

Product Performance

HYC-1378
Cooling down (ambient 32°C)

Temperature (°C)

Time (min)

HYC-1378
Stability (ambient 25°C)

Temperature (°C)

Time (min)
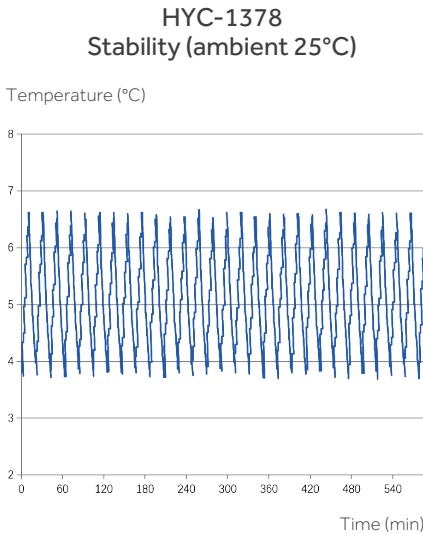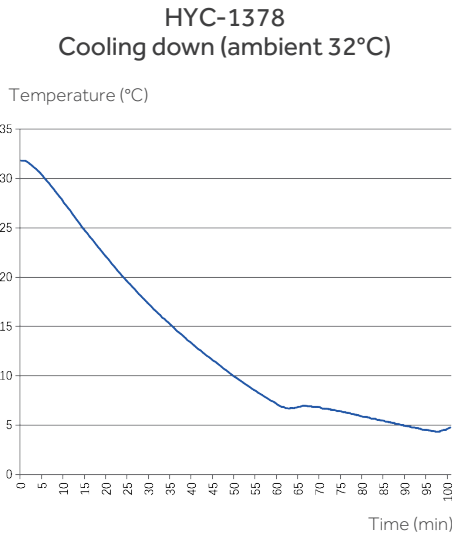
Standard Pharmacy Refrigerator

Specifications

	Model	HYC-390F		HYC-610		HYC-290		HYC-309	HYC-390		HYC-410
Technical Data	Cabinet Type	Upright, Single door		Upright, Single Door		Upright, Single Door		Upright, Single Door	Upright, Single Door		Upright, Single Door
	Climate Class	N		N		ST		N	N		N
	Cooling Type	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
	Refrigerant	R600a		R600a		R600a		R600a	R600a		R600a
	GWP (global warming potential)	20		20		20		20	20		20
	Sound Level (dB(A))	43		43	45	43		41	43		41
Performance	Temperature Range (℃)	2~8		2~8		2~8		2~8	2~8		2~8
Control	Will the fan stop automatically when opening the door	Y		Y		Y		Y	Y		Y
	Controller	Microprocessor		Microprocessor		Microprocessor		Microprocessor	Microprocessor		Microprocessor
	Display	LED		LED		LED		LED	LED		LED
Electrical Data	Power Supply (V/Hz)	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
	Electrical Current (A)	1	1.5	3	6.2	1.8	2.2	1.9	1.8	2.4	2.0
Performance Characteristics	Temperature Sensor	Digital Sensor		Digital Sensor		Digital Sensor		NTC	Digital Sensor		NTC
	Power Consumption (kWh/24h)	1.5	2.5	6.6	5.5	4.4	5.1	4.5	43		5.5
Dimensions	Capacity (L/Cu.Ft)	390/13.8		610/21.6		290/10.2		309/10.9	390/13.8		410/14.5
	Net/Gross Weight (approx) (kg)	106/129		204/227		105/127		77/87	116/139		116/139
	Net/Gross Weight (approx) (lbs)	233.8/284.5		449.7/500.4		231.6/280.1		170/192	255.8/306.6		255.7/306.4
	Interior Dimension (W*D*H) (mm)	530*555*1380		680*640*1400		530*555*1080		525*500*1290	530*555*1380		530*590*1380
	Interior Dimension (W*D*H) (in)	20.9*21.9*54.3		26.8*25.2*55.1		20.9*21.9*42.5		20.7*19.7*50.8	20.9*21.9*54.3		20.9*22.8*54.3
	Exterior Dimension (W*D*H) (mm)	665*710*1965		780*840*1945		665*710*1665		600*630*1840	665*710*1965		665*710*1965
	Exterior Dimension (W*D*H) (in)	26.2*28.0*77.4		30.7*33.1*76.6		26.2*28.0*65.6		23.6*24.8*72.4	26.2*28.0*77.4		26.2*28.0*77.4
	Packing Dimension (W*D*H) (mm)	710*810*2130		885*965*2110		700*810*1810		680*690*1940	710*810*2130		710*810*2130
	Packing Dimension (W*D*H) (in)	27.6*31.9*83.9		34.8*38.0*83.1		27.6*31.9*71.3		26.8*27.1*74.4	27.6*31.9*83.9		27.6*31.9*83.9
	Container Load (20'/40'/40'H)	22/44/44		12/26/26		22/44/44		24/51/51	22/44/44		22/44/44
Alarms	High/Low Temperature	Y		Y		Y		Y	Y		Y
	Remote Alarm	Y		Y		Y		Y	Y		Y
	Power Failure	Y		Y		Y		Y	Y		Y
	Sensor Error	Y		Y		Y		Y	Y		Y
	Low Battery	Y		Y		Y		Y	Y		Y
	Door Ajar	Y		Y		Y		Y	Y		Y
	Audible and Visual Alarm	Y		Y		Y		Y	Y		Y
Accessories	Caster	Y		Y		Y		Y	Y		4
	Foot	Y		Y		Y		Y	Y		2
	Porthole	Y		Y		Y		Y	Y		Y
	Shelves/Drawers	7/-		6/-		5/-		5/-	7/-		6 /-
	USB Interface	Optional	Y	Optional		Optional	Y	Optional	Optional	Y	Optional
	Printer	Optional		/		Optional		Optional	Optional		Optional
Material	Exterior Material	Painted Steel		Painted Steel		Painted Steel		Painted Steel	Painted Steel		Painted Steel
	Interior Material	Polystyrene		Stainless Steel		Polystyrene		Polystyrene	Polystyrene		Polystyrene
	Door Thickness (mm)	40		40		40		40	40		45
	Cabinet Thickness (mm)	40		50		40		38	40		40
	Shelves Material	Steel Wire, Coated with Plastic		Steel Wire, Coated with Plastic		Steel Wire, Coated with Plastic		Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic		Steel Wire, Coated with Plastic
	No. of Shelves	7		6		5		5	7		6
Other	Certificate	CE	UL	CE	UL	CE	UL	CE, UKCA	CE	UL	CE, ENERGY STAR

Standard Pharmacy Refrigerator

Specifications

Model		HYC-940		HYC-940F	HYC-1378	
Technical Data	Cabinet Type	Upright, Double Glass Door		Upright, Double Solid Door	Upright, Double Door	
	Climate Class	N		N	N	
	Cooling Type	Forced Air Cooling		Forced Air Cooling	Forced Air Cooling	
	Defrost Mode	Auto		Auto	Auto	
	Refrigerant	R290		R290	R290	
	GWP (global warming potential)	3		3	3	
	Sound Level (dB(A))	43	45	43	43	45
Performance	Temperature Range (°C)	2~8		2~8	2~8	
Control	Will the fan stop automatically when opening the door	Y		Y	Y	
	Controller	Microprocessor		Microprocessor	Microprocessor	
	Display	LED		LED	LED	
Electrical Data	Power Supply (V/Hz)	220~240/50/60	115/60	220~240/50/60	220~240/50/60	115/60
	Electrical Current (A)	3.5	7.5	2.7	3	7.35
Performance Characteristics	Temperature Sensor	NTC		NTC	NCT	
	Power Consumption (kWh/24h)	11		11	11	12.47
Dimensions	Capacity (L/Cu.Ft)	890/31.4		890/31.4	1378/48.7	
	Net/Gross Weight (approx) (kg)	227/279		207/259	310/360	
	Net/Gross Weight (approx) (lbs)	500.4/615.1		456.4/571.1	683.4/793.7	
	Interior Dimension (W*D*H) (mm)	1030*590*1425		1030*590*1425	1320*700*1500	
	Interior Dimension (W*D*H) (in)	40.6*23.2*56.1		40.6*23.2*56.1	52.0*27.6*59.1	
	Exterior Dimension (W*D*H) (mm)	1130*755*1980		1130*755*1980	1440*950*1980	
	Exterior Dimension (W*D*H) (in)	44.5*29.7*78.0		44.5*29.7*78.0	56.7*37.4*78.0	
	Packing Dimension (W*D*H) (mm)	1250*850*2170		1250*850*2170	1620*1040*2140	
	Packing Dimension (W*D*H) (in)	49.2*33.5*85.4		49.2*33.5*85.4	63.8*41.0*84.3	
	Container Load (20'/40'/40'H)	10/22/22		10/22/22	6/14/14	
Alarms	High/Low Temperature	Y		Y	Y	
	Remote Alarm	Y		Y	Y	
	Power Failure	Y		Y	Y	
	Sensor Error	Y		Y	Y	
	Low Battery	Y		Y	Y	
	Door Ajar	Y		Y	Y	
	Audible and Visual Alarm	Y		Y	Y	
Accessories	Caster	Y		Y	Y	
	Foot	Y		Y	Y	
	Porthole	Y		Y	Y	
	Shelves/Drawers	12/-		12/-	12/-	
	USB Interface	Optional		Optional	Y	
	Printer	Optional		Optional	Optional	
	Chart Recorder	N/A		N/A	Optional	
Material	Exterior Material	Painted Steel		Painted Steel	Painted Steel	
	Interior Material	Painted Steel		Painted Steel	Painted Steel	
Other	Certificate	CE	UL	CE	CE	UL

Under-Counter Pharmacy Refrigerator

Easy to Install, Ergonomic and Reliable

Haier Biomedical 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 uniformity within ±3°C
• Chamber temperature range 2~8°C
• Microprocessor control, digital display and temperature adjustment with an increment of 0.1°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

Product Performance

HYC-118A
Cooling down (ambient 32°C)

HYC-118A
Stability (ambient 25°C)

Pharmacy Refrigerator Solutions
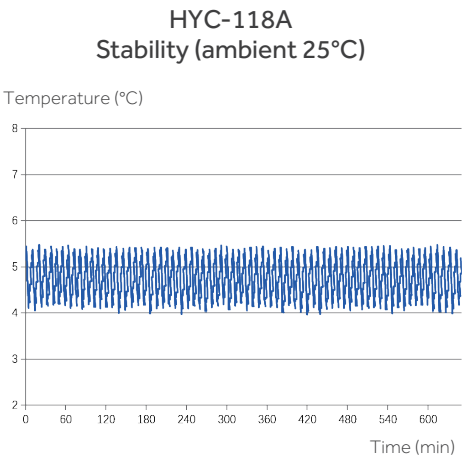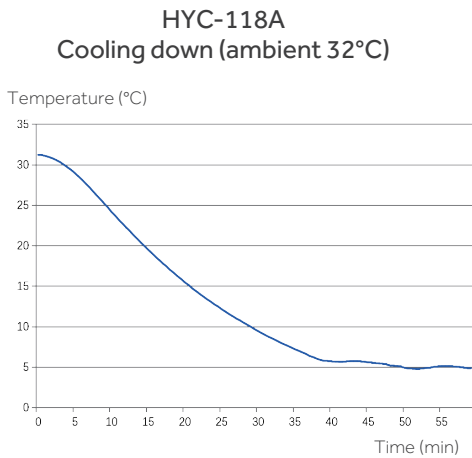
Under-Counter Pharmacy Refrigerator

Specifications

	Model	HYC-68		HYC-68A		HYC-118		HYC-118A	
Technical Data	Cabinet Type	Upright, Solid Door		Upright, Glass Door		Upright, Solid Door		Upright, Glass Door	
	Climate Class	N		N		N		N	
	Cooling Type	Forced Air Cooling		Forced Air Cooling		Forced Air Cooling		Forced Air Cooling	
	Defrost Mode	Auto		Auto		Auto		Auto	
	Refrigerant	R600a		R600a		R600a		R600a	
	GWP (global warming potential)	20		20		20		20	
	Sound Level (dB(A))	41		41		41		41	
Performance	Temperature Range (°C)	2~8		2~8		2~8		2~8	
Control	Will the fan stop automatically when opening the door	Y		Y		Y		Y	
	Controller	Microprocessor		Microprocessor		Microprocessor		Microprocessor	
	Display	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
	Electrical Current (A)	0.85	2.5	0.85	1.7	1.4		1.5	
Performance Characteristics	Temperature Sensor	NTC		NTC		NTC		NTC	
	Power Consumption (kWh/24h)	0.6		0.9	0.67	0.42		1.7	1.94
	Temperature Sensor or Not	Y		Y		Y		Y	
Dimensions	Capacity (L/Cu.Ft)	68/2.4		68/2.4		118/4.2		118/4.2	
	Net/Gross Weight (approx) (kg)	38/40		38/40		41/46		46/51	
	Net/Gross Weight (approx) (lbs)	83.8/88.2		83.8/88.2		90.5/101.5		101.5/112.5	
	Interior Dimension (W*D*H) (mm)	415*385*505		415*385*505		515*415*630		515*415*630	
	Interior Dimension (W*D*H) (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	
	Exterior Dimension (W*D*H) (mm)	495*580*660		495*580*660		597*635*810		597*635*810	
	Exterior Dimension (W*D*H) (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	
	Packing Dimension (W*D*H) (mm)	570*670*750		570*670*750		700*710*930		700*710*930	
	Packing Dimension (W*D*H) (in)	22.5*26.4*29.5		22.5*26.4*29.5		27.6*28.0*36.6		27.6*28.0*36.6	
	Container Load (20'/40'/40'H)	102/207/207		102/207/207		48/96/96		48/96/96	
Alarms	High/Low Temperature	Y		Y		Y		Y	
	Remote Alarm	Y		Y		Y		Y	
	Power Failure	Y		Y		Y		Y	
	Sensor Error	Y		Y		Y		Y	
	Low Battery	Y		Y		Y		Y	
	Audible and Visual Alarm	Y		Y		Y		Y	
	Door Ajar	Y		Y		Y		Y	
Accessories	Foot	Y/2		Y/2		Y/2		Y/2	
	Porthole	Y ;1 Right Side Wall		Y; 1 Right Side Wall		Y; 1 Left Side Wall		Y; Left Side Wall	
	Shelves/Drawers	2/1		2/1		3/1		3/1	
	USB Interface	Optional		Optional		/		/	
	Exterior Material	Painted Steel		Painted Steel		Painted Steel		Painted Steel	
Material	Interior Material	Polystyrene		Polystyrene		Polystyrene		Polystyrene	
	Drawers Material	Steel Wire Dipping Plastic		Steel Wire Dipping Plastic		Steel Wire Dipping Plastic		Steel Wire Dipping Plastic	
	Door Thickness (mm)	30		30		40		40	
	Cabinet Thickness (mm)	30		30		40		40	
	Shelves Material	Steel Wire, Coated with Plastic		Steel Wire, Coated with Plastic		Steel Wire, Coated with Plastic		Steel Wire, Coated with Plastic	
	No. of Shelves	2		2		3		3	
Other	Certificate	CE, UKCA	UL	CE, UKCA	UL	CE,UKCA	UL	CE,UKCA	UL

Combined Refrigerator and Freezer

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

Multipurpose and Space Efficient
- One cabinet with two independent chambers, both are self-contained and independently controlled with individual doors
- Refrigerator chamber is equipped with a double-paned glass viewing window and LED interior lighting

Environment Friendly
Hydrocarbon refrigerant (R600a for refrigerator/ R290 for freezer) and CFC-free polyurethane insulation for reduced global warning

Stainless Steel Interior
The interior of refrigerator and freezer are both made of stainless steel, which is easy to clean and corrosion-proof

Microprocessor Controller with Digital Display
- Refrigerator temperature 2~8°C with resolution of 0.1°C
- Freezer temperature -40~-10 °C with resolution of 1°C
- Multiple alarm functions with remote alarm contact to ensure safe monitoring

High Performance
- Refrigerator: Forced-air cooling system with cycle defrost, temperature uniformity±3°C
- Freezer: Cold wall cooling system, manual defrost, temperature uniformity±5°C
- Standard USB port & optional printer, easy to get temperature record

HYCD-282 **HYCD-282A**

Product Performance

| Refrigerator Cool Down Curve | Refrigerator Warm Up Curve | Freezer Cool Down Curve | Freezer Warm Up Curve |
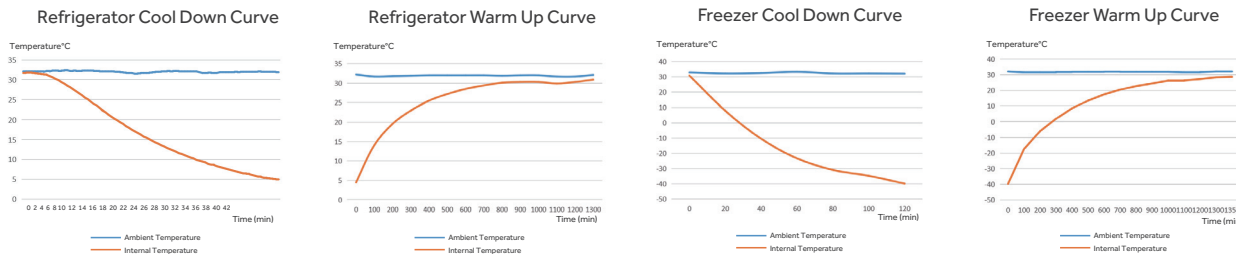
Specifications

	Model		HYCD-282		HYCD-282A	
Technical Data	Cabinet Type		Refrigerator	Freezer	Refrigerator	Freezer
			Upright		Upright	
	Climate Class		N		N	
	Cooling Type		Forced air cooling	Direct cooling	Forced air cooling	Direct cooling
	Defrost Mode		Auto	Manual	Auto	Manual
	Refrigerant		HC	HC	HC	HC
	GWP (global warming potential)		R600a:20	R290:3	R600a:20	R290:3
	Sound Level (dB(A))		43		43	
Performance	Temperature Range (°C)		2~8	-10~-40	2~8	-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)		185/6.5	97/3.4	185/6.5	97/3.4
	Net/Gross Weight (approx)	kg	145/160		145/160	
		lbs	319.7/352.7		319.7/352.7	
	Interior Dimensions (W*D*H)	mm	605*510*720	515*465*440	605*510*720	515*465*440
		in	23.8*20*28.3	20.2*18.3*17.3	23.8*20*28.3	20.2*18.3*17.3
	Exterior Dimensions (W*D*H)	mm	735*660*1810		735*660*1810	
		in	28.9*26.0*71.3		28.9*26.0*71.3	
	Packing Dimensions (W*D*H)	mm	795*740*2010		795*740*2010	
		in	31.3*29.1*79.1		31.3*29.1*79.1	
	Container Load (20'/40'/40'H)		21/43/43		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		3/1	1/2	3/1	1/2
	Stylus Printer		Optional		Optional	
	USB Interface		Y		Y	
Others	Certification		CE		CE	
Compressor Type			Frequency Conversion Compressor		Frequency Conversion Compressor	
Compressor Quantity			2		2	

Pharmacy Refrigerator Solutions

Combined Refrigerator and Freezer

This product is designed to store biomaterials, vaccines, electronic devices and low temperature tests of special materials.

HYCD-469

Temperature Control

2~8°C
-10~-40°C
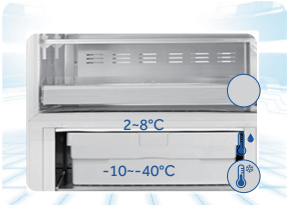
Security Guaranteed

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 indicators: 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

Specifications

	Model		HYCD-319A(115V) Refrigerator	HYCD-319A(115V) Freezer	HYCD-469 Refrigerator	HYCD-469 Freezer	HYCD-469A Refrigerator	HYCD-469A Freezer	HYCD-469A(115V) Refrigerator	HYCD-469A(115V) Freezer
Technical Data	Cabinet Type		Refrigerator	Freezer	Refrigerator	Freezer	Refrigerator	Freezer	Refrigerator	Freezer
			Upright		Upright		Upright		Upright	
	Climate Class		N		N (16~32°C)		N (16~32°C)		N (16~32°C)	
	Cooling Type		Forced Air Cooling	Direct Cooling	Forced Air Cooling	Direct Cooling	Forced Air Cooling	Direct Cooling	Forced Air Cooling	Direct Cooling
	Defrost Mode		Auto	Manual	Auto	Manual	Auto	Manual	Auto	Manual
	Refrigerant		R600a	R290	R600a	R290	R600a	R290	R600a	R290
	GWP (global warming potential)		R600a:20	R290:3	R600a:20	R290:3	R600a:20	R290:3	R600a:20	R290:3
	Sound Level (dB(A))		50		45		45		52	
Performance	Temperature Range (°C)		2~8	-15~-40	2~8	-10~-40	2~8	-10~-40	2~8	-15~-40
Control	Controller		Microprocessor		Microprocessor		Microprocessor		Microprocessor	
	Display		LED		LED		LED		LED	
Electrical Data	Power Supply (V/Hz)		115/60		220~240/50/60		220~240/50/60		115/60	
	Power (W)		450		640		640		640	
	Electrical Current (A)		6		3		3		7	
Dimensions	Capacity (L/Cu.Ft)		200/7.06	100/3.53	269/9.5	200/7.1	269/9.5	200/7.1	245/8.65	200/7.1
	Net/Gross Weight (approx)	kg	145/160		176/207		176/207		176/207	
		lbs	319.7/352.7		388.0/456.4		388.0/456.4		388.0/456.4	
	Interior Dimensions (W*D*H)	mm	605*510*720	515*465*440	593*585*800	553*545*660	593*585*800	553*545*660	593*585*800	553*545*660
		in	23.8*20*28.3	20.2*18.3*17.3	23.3*23.0*31.5	21.8*21.5*26.0	23.3*23.0*31.5	21.8*21.5*26.0	23.3*23.0*31.5	21.8*21.5*26.0
	Exterior Dimensions (W*D*H)	mm	735*660*1810		738*834*1975		738*834*1975		738*834*1975	
		in	28.9*26.0*71.3		29.1*32.8*77.8		29.1*32.8*77.8		29.1*32.8*77.8	
	Packing Dimensions (W*D*H)	mm	795*740*2010		840*910*2170		840*910*2170		840*910*2170	
		in	31.3*29.1*79.1		33.1*35.8*85.4		33.1*35.8*85.4		33.1*35.8*85.4	
	Container Load (20'/40'/40'H)		21/43/43		12/28/28		12/28/28		12/28/28	
Alarms	High/Low Temperature		Y		Y		Y		Y	
	Sensor Error		Y		Y		Y		Y	
	Power Failure		Y		Y		Y		Y	
	Door Ajar		Y		Y		Y		Y	
	Remote Alarm		Y		Y		Y		Y	
	High Ambient Temperature		Y		Y		Y		Y	
	Low Battery		Y		Y		Y		Y	
Accessories	Caster		Y/4		Y		Y		Y	
	Foot		Y/2		Y		Y		Y	
	Porthole		Y/2		Y		Y		Y	
	Shelves/Drawers		3/1	1/2 (Without Sliding Rack)	3/0	3/0 (Max 3 Drawers optional, without sliding rack)	3/0	3/0 (Max 3 Drawers optional, without sliding rack)	3/0	3/0 (Max 3 Drawers optional, without sliding rack)
	USB Interface		Y		Y		Y		Y	
Others	Certification		UL		CE		CE		UL	

Laboratory Refrigerator

Typical Installation

Used to store chemicals, reagents and consumables within laboratories and research facilities.

Product advantages

Precise Control of Temperature

Adjustable set temperature range is 3°C to 16°C. A smart temperature control system keeps the internal temperature variation within ±3°C inside the chamber.

High Efficiency HC Cooling Technology

The hydrocarbon refrigeration system operates at a much higher efficiency and reduces the energy consumption by about 50 percent.

Ergonomic Design

One-touch Search for Historic Data
The highest and lowest historic temperature data is saved and can be checked with one key stroke.

Precise Control of Temperature
Adjustable set temperature range is 3°C to 16°C. A smart temperature control system keeps the internal temperature variation within ±3°C inside the chamber.

High Strength Glass Shelves
Tempered glass shelves hold 24kg of products per shelf.

Automatic Door Closing Function

Low Noise
Noise cancelling technology reduces the sound level to less than 40 dB(A) for an improved working environment.

High Efficiency HC Cooling Technology
The hydrocarbon refrigeration system operates at a much higher efficiency and reduces the energy consumption by about 50 percent.

Dual Lock Design with Multiple Alarm Systems
A mortise lock is standard on the door with option to add a padlock for additional security. Standard alarms include high and low temperature, door opening, and sensor errors.

Cabinet Structure | Glass Shelve | Fan/Interior Light | Display Board

Specifications

Category	Model		HLR-310F
Technical Data	Type		Upright
	Climate Class		N
	Cooling Type		Forced Air Cooling
	Defrost Mode		Auto
	Refrigerant		R600a
	GWP (global warming potential)		20
	Sound Level (dB(A))		40
Performance	Temperature Range (°C)		3~16 Adjustable
	Ambient Temperature (°C)		16~32
Control	Controller		Microprocessor
	Display		LED
Electrical Data	Power Supply (V/Hz)		220-240/50
	Power (W)		225
	Electrical Current (A)		1.6
Performance Characteristics	Temperature Sensor		NTC
	Power Consumption (kWh/24h)		1.05
Dimensions	Capacity (L/Cu.Ft)		310/10.9
	Net/Gross Weight	kg	72/83
		lbs	158.7/183
	Interior Dimensions (W*D*H)	mm	560*500*1290
		in	22.0*19.7*50.8
	Exterior Dimensions (W*D*H)	mm	605*598*1840
		in	23.8*23.6*73.6
	Packing Dimensions (W*D*H)	mm	680*690*1940
		in	26.8*27.1*74.4
	Container Load (20'/40'/40'H)		24/51/51
Alarms	High/Low Temperature		Y
	Sensor Error		Y
	Door Ajar		Y
	Audible and Visual Alarm		Y
Accessories	Caster		4
	Foot		2
	Porthole		Y
	Shelves		4
	Temperature Setting Mode		Password Protection
Material	Exterior Material		Painted Steel
	Interior Material		Polystyrene
	Door Thickness (mm)		45
	Cabinet Thickness (mm)		35
	No. of Shelves		4
Others	Certification		CE

Spark Free Refrigerator

Typical Installation

Spark free refrigerators are installed typically in many different laboratories and research facilities to store chemical or experimental reagents that are flammable, explosive, evaporative or corrosive.

HLR-310SF/FL

Product Advantages

ATEX II C-T6 E.U. Explosion Proof Certification

Explosion proof features include antistatic liner, gasket, explosion proof fan motor, over current and voltage protection. ATEX II C-T6 explosion proof certification for Haier's laboratory refrigerator ensures safety in your work place.

3~16°C Setting Temperature Range

Smart temperature control system limits the temperature variance within ±3°C. Adjustable set point for the range of 3°C ~16°C, factory default set temperature is 5°C, controlling the temperature inside the chamber is 2~8°C.

One-touch Search for Historic Data

The highest and lowest historic temperature data is saved and can be checked with one keystroke.

High Efficiency HC Cooling Technology

The hydrocarbon refrigeration system operates at a much higher efficiency and reduces the energy consumption by about 50 percent.

Ergonomic Design

High Strength Glass Shelves

Tempered glass shelves hold 40 kg of products per shelve.

Low Noise

Noise cancelling technology reduces the sound level to less than 40 dB(A) for a much-improved environment.
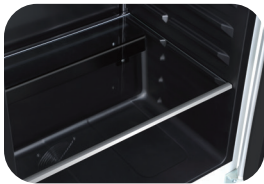
Dual Lock Design with Multiple Alarm Systems

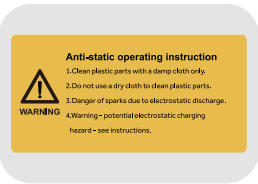A mortise lock is standard on the door. Standard alarms include high and low temperature, door ajar, and sensor errors.

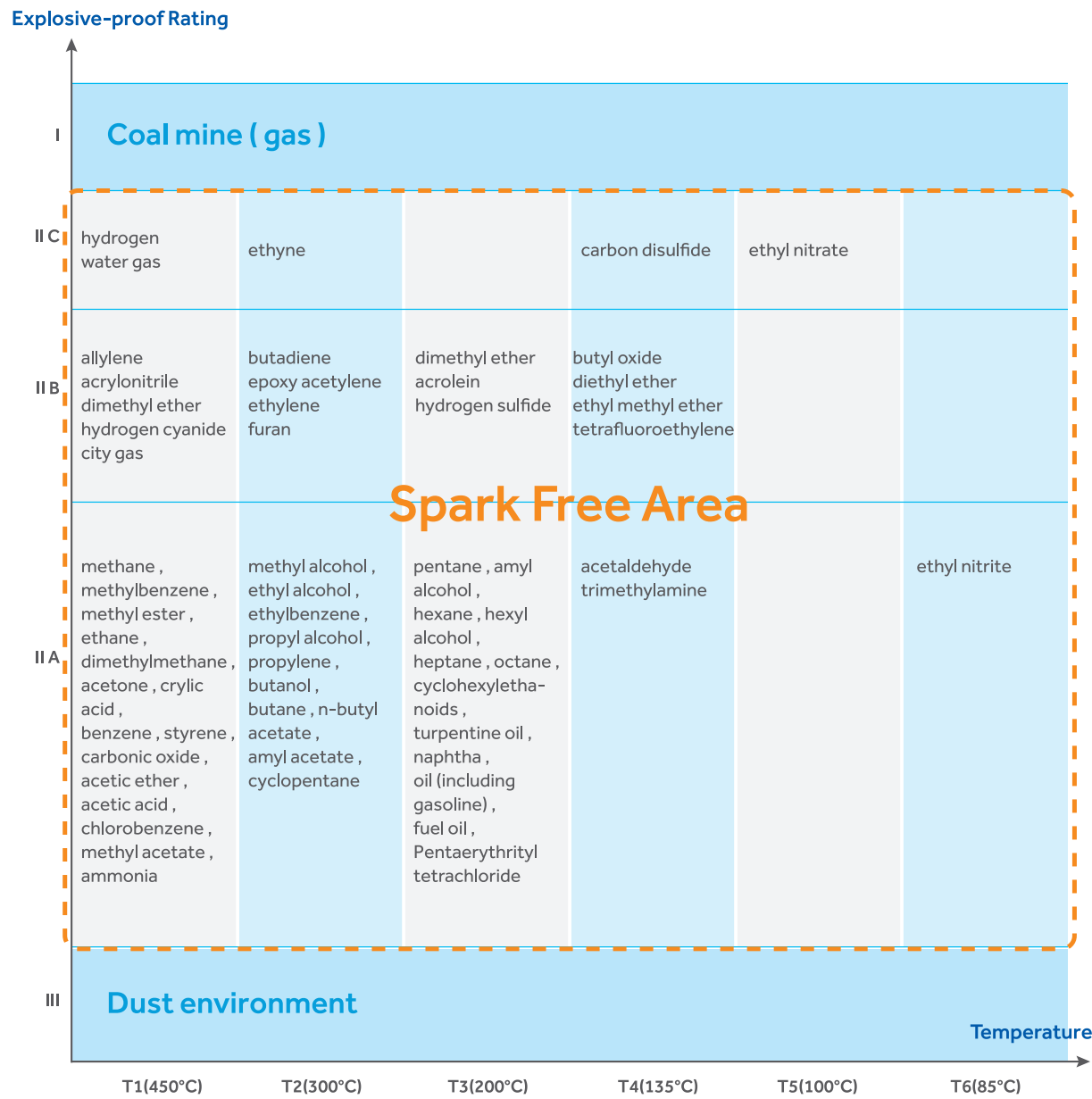|			
Cabinet Structure	Glass Shelve	ATEX Certification Label	Explosion Proof Cabinet/Fan

Spark Free Refrigerator

Application Range

Haier spark free refrigerators are ATEX certified in the application range Ⅱ 3G Ex ic nA Ⅱ T6,which means the appliances can be found in the whole Ⅱ zone environment (including Ⅱ A and Ⅱ B, Ⅱ C), a typical environment within many biochemistry laboratories.

Explosive-proof Rating

I	Coal mine (gas)				
Ⅱ C	hydrogen water gas	ethyne		carbon disulfide	ethyl nitrate
Ⅱ B	allylene acrylonitrile dimethyl ether hydrogen cyanide city gas	butadiene epoxy acetylene ethylene furan	dimethyl ether acrolein hydrogen sulfide	butyl oxide diethyl ether ethyl methyl ether tetrafluoroethylene	
Ⅱ A	methane , methylbenzene , methyl ester , ethane , dimethylmethane , acetone , crylic acid , benzene , styrene , carbonic oxide , acetic ether , acetic acid , chlorobenzene , methyl acetate , ammonia	methyl alcohol , ethyl alcohol , ethylbenzene , propyl alcohol , propylene , butanol , butane , n-butyl acetate , amyl acetate , cyclopentane	pentane , amyl alcohol , hexane , hexyl alcohol , heptane , octane , cyclohexyletha-noids , turpentine oil , naphtha , oil (including gasoline) , fuel oil , Pentaerythrityl tetrachloride	acetaldehyde trimethylamine	ethyl nitrite
III	Dust environment				

Spark Free Area

Temperature

| T1(450℃) | T2(300℃) | T3(200℃) | T4(135℃) | T5(100℃) | T6(85℃) |

Warning: Do not store open containers of volatile substances in this refrigerator.

Specifications

	Model		HLR-118SF	HLR-310SF	HLR-310FL(115V)	HLR-310FL(220V)
Technical Data	Type		Under-Counter	Upright	Upright	Upright
	Climate Class		N	N	N	N
	Cooling Type		Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling
	Defrost Mode		Auto	Auto	Auto	Auto
	Refrigerant		R600a	R600a	R600a	R600a
	GWP (global warming potential)		20	20	20	20
	Sound Level (dB(A))		40	40	43	40
Performance	Temperature Range (℃)		3~16 Adjustable	3~16 Adjustable	3~16 Adjustable	3~16 Adjustable
	Ambient Temperature (℃)		16~32	16~32	16~32	16~32
Control	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		LED	LED	LED	LED
Electrical Data	Power Supply (V/Hz)		220~240/50	220~240/50	115/60	220~240/50
	Power (W)		55	210	210	210
	Electrical Current (A)		1.2	1.26	2.5	1.26
	Power Consumption (kWh/24h)		0.56	1.05	1.05	1.05
Dimensions	Capacity (L/Cu.Ft)		118/4.2	310/10.9	310/10.9	310/10.9
	Net/Gross Weight (approx)	kg	44/49	72/83	72/83	72/83
		lbs	97/108	158.7/183	158.7/183	158.7/183
	Interior Dimensions (W*D*H)	mm	515*415*630	560*500*1290	560*500*1290	560*500*1290
		in	20.3*16.3*24.8	22.0*19.7*50.8	22.0*19.7*50.8	22.0*19.7*50.8
	Exterior Dimensions (W*D*H)	mm	597*635*810	605*598*1840	605*598*1840	605*598*1840
		in	23.5*25*31.9	23.8*23.6*73.6	23.8*23.6*73.6	23.8*23.6*73.6
	Packing Dimensions (W*D*H)	mm	700*710*930	680*690*1940	680*690*1940	680*690*1940
		in	27.6*28.0*36.6	26.8*27.1*74.4	26.8*27.1*74.4	26.8*27.1*74.4
	Container Load (20'/40'/40'H)		48/96/96	24/51/51	24/51/51	24/51/51
Alarms	High/Low Temperature		Y	Y	Y	Y
	Sensor Error		Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y
Accessories	Caster		2	4	4	4
	Foot		2	2	2	2
	Shelves/Baskets		2/1	4/0	4/0	4/0
	Water Tray		1	1	1	1
	Padlock Adapter Kit/Quantity		/	1	1	1
	Built-in Key Door Lock/Quantity		1	1	1	1
Certification	CE		Y	Y	Y	Y
	ATEX		Y	Y	Y	Y

Pharmacy Refrigerator Solutions

Combined Refrigerator and Freezer with Spark-free Interior

Cabinet Temperature

765
695
1860

660
630
1860

1320
825

This application is suitable for storing highly inflammable products such as research samples, reagents, and other laboratory inventories within specific temperature ranges. The refrigerator chamber maintains temperatures between 3~16°C, while the freezer chamber can reach temperatures of -10~-30°C. This setup provides a controlled environment for storing sensitive materials safely.

Product Advantages

USB module, printer and RS485 are all available for easy data acquisition and external connection

Eco-friendly hydrocarbon refrigerant and CFC-free polyurethane insulation for reduced GWP (global warming potential)

Both refrigerator chamber and freezer chamber have an independent cooling circuit

Effortless Mobility and Stability with 4 Swivel Casters and 2 Levelling Feet

ATEX Certified with spark-free interior

Multiple alarm functions for safer monitoring, audible/visual alert with mute function; remote alarm contact is equipped as standard

Stainless steel Interior and stainless shelves (adjustable for refrigerator chamber and removable for freezer chamber)

Hermetically sealed compressor, optimized cooling system to ensure high performance and energy saving

Heavy duty dandles with unique-key lock and hasp for padlock

Microprocessor controller with digital display
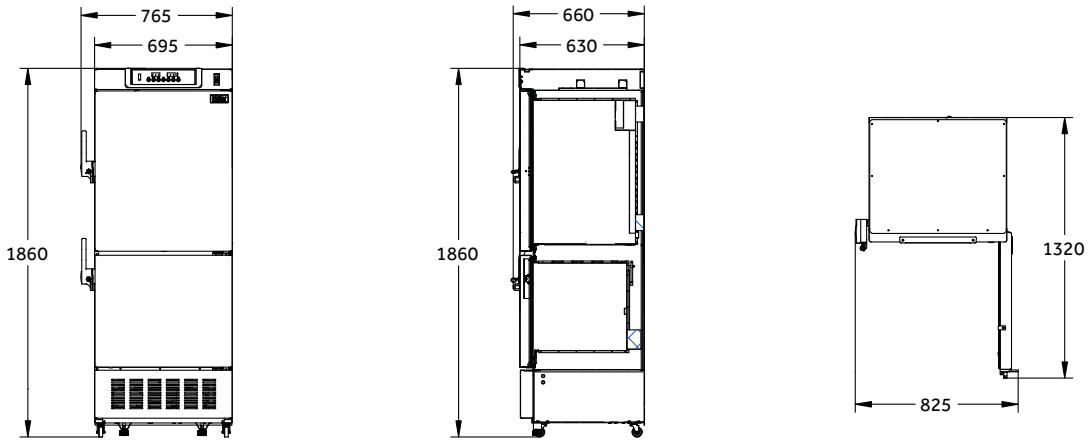
Specifications

Model			HLRF-319SF	
Technical Data	Cabinet Type		Refrigertor	Freezer
			Upright	
	Climate Class		N, 16~32°C	
	Cooling Type		Forced Air Cooling	Direct Cooling
	Defrost Mode		Auto	Manual
	Refrigerant		R600a	R290
	GWP (global warming potential)		R600a:20	R290:3
	Sound Level (dB(A))		43	
Performance	Temperature Range (°C)		2~8	-10~-40
Control	Controller		Microprocessor	
	Display		LED	
Electrical Data	Power Supply (V/Hz)		220-240/50	
	Power (W)		230	
	Electrical Current (A)		1.5	
	Power Consumption (kWh/day)		1.5	
Dimensions	Capacity (L/Cu.Ft)		219/7.7	100/3.5
	Net/Gross Weight (approx)	kg	130/140	
		lbs	320/353	
	Interior Dimensions (W*D*H)	mm	605*510*720	515*465*440
		in	23.8*20*28.3	20.2*18.3*17.3
	Exterior Dimensions (W*D*H)	mm	735*660*1810	
		in	28.9*26.0*71.3	
	Packing Dimensions (W*D*H)	mm	795*740*2010	
		in	31.3*29.1*79.1	
	Container load (20'/40'/40'H)		21/43/43	
Alarms	High/Low Temperature		Y	
	Sensor Error		Y	
	Power Failure		Y	
	Door Ajar		Y	
	Low Battery		Y	
	Remote Alarm		Y	
Accessories	Caster		Y/4	
	Foot		Y/2	
	Porthole		N/A	
	Shelves		3 Adjustabe	2 Removeable
	Stylus Printer		Optional (Printer or RS485, Either-or)	
	RS485		Optional (Printer or RS485, Either-or)	
	USB Interface		Optional	
Others	Certification		CE, ATEX	

Microprocessor controller
Explosion-proof fan
Stainless shelves
Stainless steel Interior
Stainless steel water tray
Stainless shelves
2 adjustable levelling leg

Optional USB
Handle with key lock
Magnetic door seal
Hasp for padlock
Antistatic door lining
4 casters

HLRF-319SF

Fluid Warming Cabinet

Application

Heating applications include warming of liquid medicine, nutrient solution, rinsing liquid and physiological saline. Installations can be found in operating rooms, ICU, emergency rooms, wards and other related areas.

UV Sterilization Lamp

Product Features

- Fast heating speed: variable power PTC heating module with fast heating speed and energy saving.
- UV sterilization: UV light sterilization in the cabinet with a variety of optional sterilization methods for effective prevention of possible contamination.
- Multiple overheat protections: electronic control + mechanical temperature control + overheat protection, multiple temperature control to ensure heating safety.
- Environmentally friendly: no compressor or external fan, extremely quiet with no disturbance to the airflow in the operating room and no effect on temperature, reduces risks of cross-contamination.

Product Advantages

- Fast and efficient heating.
- Standard UV sterilization for effective sterilization and other sterilization options available.
- Multiple over heating protections to ensure product viability.
- Two-sensor.

7 Inch LCD Screen

Ergonomic Design

- Large and clear 7-inch LCD touch screen.
- Easy to clean stainless steel interior and flat external surfaces.
- Multiple alarms for over-heating protection.

Specifications

	Model		HYR-111
Technical Data	Cabinet Type		Upright, One Glass Door
	Climate Class		SN
	WarmingType		Forced Air Warming
	Sound Level (dB(A))		42
Performance	Temperature Range (℃)		26℃~50℃, Above Ambient Temperature
Control	Controller		Microprocessor
	Display		LCD Touch Screen
Electrical Data	Power Supply (V/Hz)		220-240/50/60
	Power(W)		130
	Power Consumption (kWh/24h)		0.59
Dimensions	Capacity (L/Cu.Ft)		111/3.9
	Net/Gross Weight (approx)	kg	58/68
		lbs	127.6/149.6
	Interior Dimensions (W*D*H)	mm	477*528*462
		in	18.67*20.67*18.1
	Exterior Dimensions (W*D*H)	mm	597*682*833
		in	23.37*26.7*32.61
	Packing Dimensions (W*D*H)	mm	700*775*960
		in	27.6*30.5*37.8
	Container load (20'/40'/40'H)		46/94/94
Alarms	High/Low Temperature		Y
	Sensor Error		Y
	Door Ajar		Y
Accessories	Caster		Y
	Foot		Y
	Porthole		Y
	Shelves		Y