



HYCD-282

HYCD-282A

# Combined Refrigerator and Freezer

## Scope of Application

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

## Innovative Design

- Self-closing Design
- Intelligent Alarm
- Front USB Port
- Safe and Secure

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## Product Advantages



### Refrigerator & Freezer Combination

Independent control panel display for refrigerator section and freezer section



### Energy Conservation and Environmental Protection

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



### Multiple Alarms

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

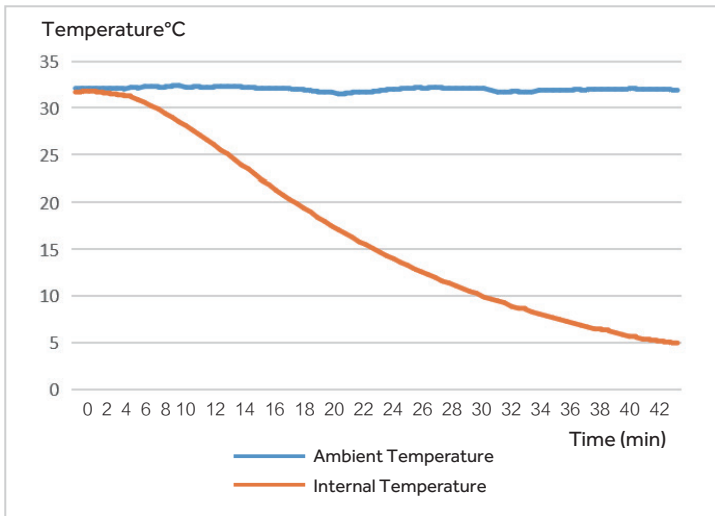


### High Display Precision

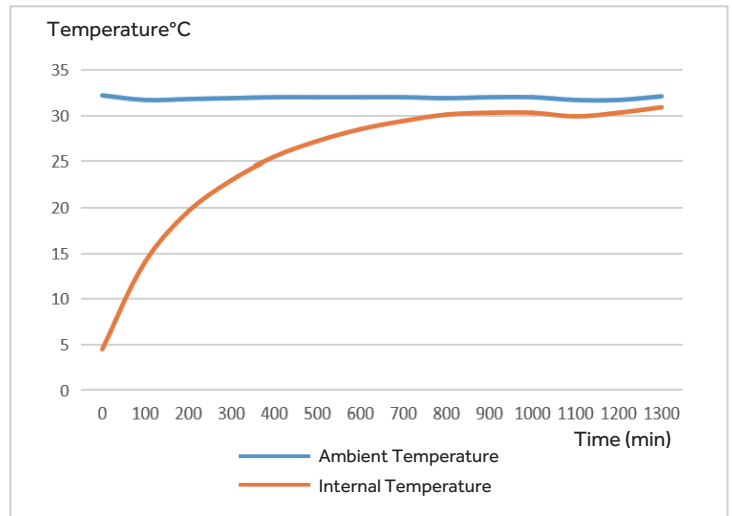
Refrigerator room display precision is 0.1°C

## Product Performance

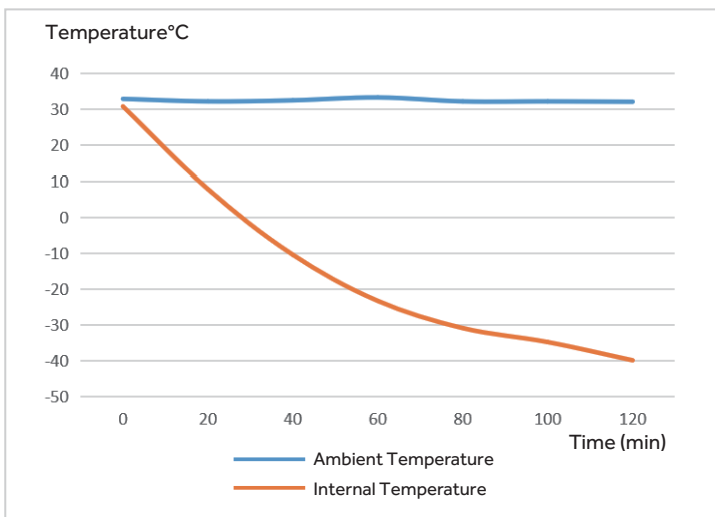
### Refrigerator Cool Down Curve



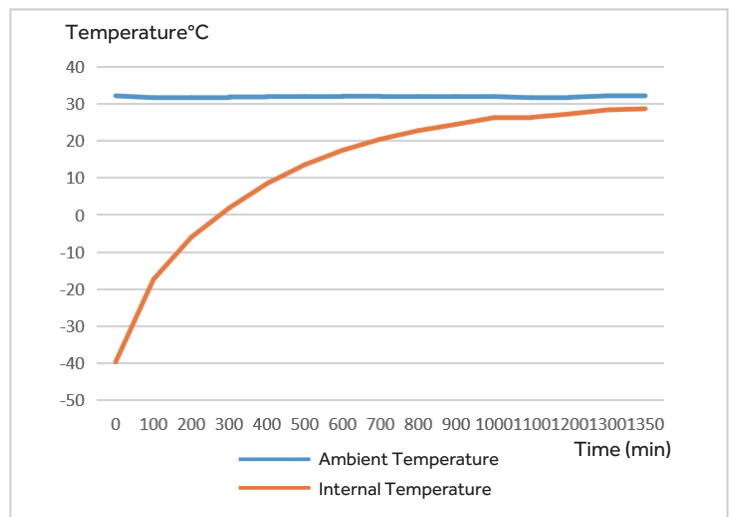
### Refrigerator Warm Up Curve



### Freezer Cool Down Curve



### Freezer Warm Up Curve



## Specifications



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

# Combined Refrigerator and Freezer Unit



HYCD-469A

HYCD-469

## Scope of Application

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

## Innovative Design

- ◎ Hydrocarbon Energy Saving
- ◎ Environmentally Friendly
- ◎ Safe, Secure and Reliable
- ◎ Intelligent Control

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## Product Advantages



### Frequency Conversion and Energy Saving

Frequency conversion high efficiency compressor, optimized refrigeration system, more energy saving.



### Green Environmental Protection

- Hydrocarbon compressor, hydrocarbon refrigerant, completely green refrigeration system.
- Cyclopentane foamed polyurethane insulation layer, the whole series conform to the european ROHS directive material, green environmental protection.



### Large Space, Good Uniformity, Accurate Temperature Control

- Built-in evaporator, large space in the box, shelf/partition adjustable.
- Temperature uniformity of refrigerator  $\pm 3^{\circ}\text{C}$ ; Control accuracy  $0.1^{\circ}\text{C}$ .
- Freezer temperature uniformity  $\pm 5^{\circ}\text{C}$ ; Control accuracy  $1^{\circ}\text{C}$ .



### Stainless Steel Inner for Easy Cleaning

Stainless steel inner tank is corrosion resistant and easy to clean.



### Microprocessor Control System

- Microprocessor temperature controller:  
Refrigerator adjustable temperature  $2\sim 8^{\circ}\text{C}$ , display accuracy at  $0.1^{\circ}\text{C}$ ;  
Freezer adjustable temperature  $-10\sim -40^{\circ}\text{C}$ , display accuracy at  $1^{\circ}\text{C}$ .
- Multiple alarm functions including high/low temperature alarm, sensor error alarm, power failure alarm, low battery alarm, door ajar alarm and high ambient temperature alarm.
- Two types of alarm indications: audible buzzer and visible flashing light. Alarm lasts for more than 48 hours after power failure.
- Standard USB & optional printer.

## Ergonomic Design



Equipped with padlocks in both refrigerator and freezer to ensure storage safety



- Equipped with electrically heated glass to prevent condensation effectively (HYCD-469A)
- Equipped with overcurrent protection to ensure usage safety



Two test holes for both refrigerator and freezer as standard, allow independent testing of cabinet temperature



Refrigerator and freezer are equipped with self-closing hinges to avoid door ajar (less than  $90^{\circ}$  self-closing)



# Combined Refrigerator and Freezer Unit

## Product Parts Diagram



- Microcomputer controller with dual display and separate control
- Microprocessor temperature control accuracy 0.1°C (refrigerator) and 1°C (freezer)

USB interface for easier data transfer

Dual fan system providing high refrigeration efficiency with a better temperature uniformity and stability

Equipped with LED lights in the refrigerator

Equipped with three adjustable dip plastic shelves in the refrigerator

Glass door (HYCD-469A)

Equipped with padlocks in both refrigerator and freezer to ensure storage safety

Stainless steel tank

Equipped with three adjustable stainless steel shelves in the freezer, with three optional plastic drawers for different needs

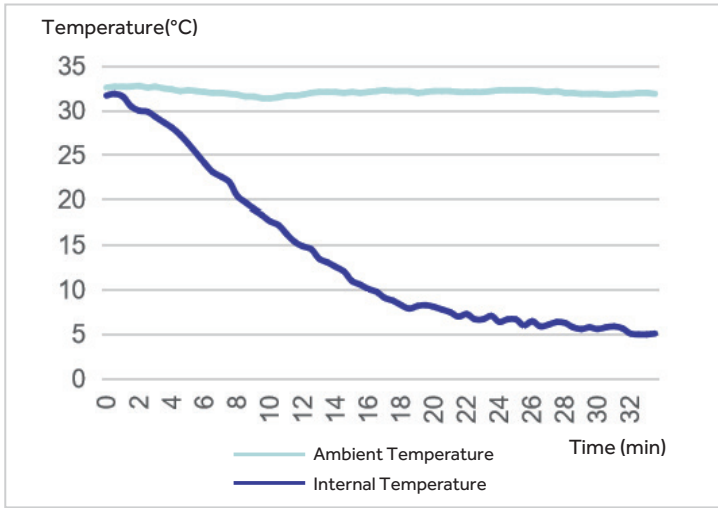
Four casters and two levelling legs for ease of maneuvering and positioning



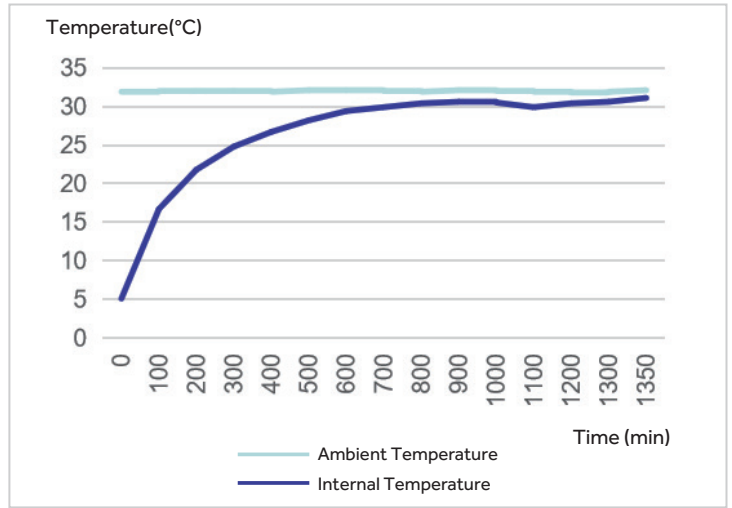
## 32°C Ambient Temperature Curve



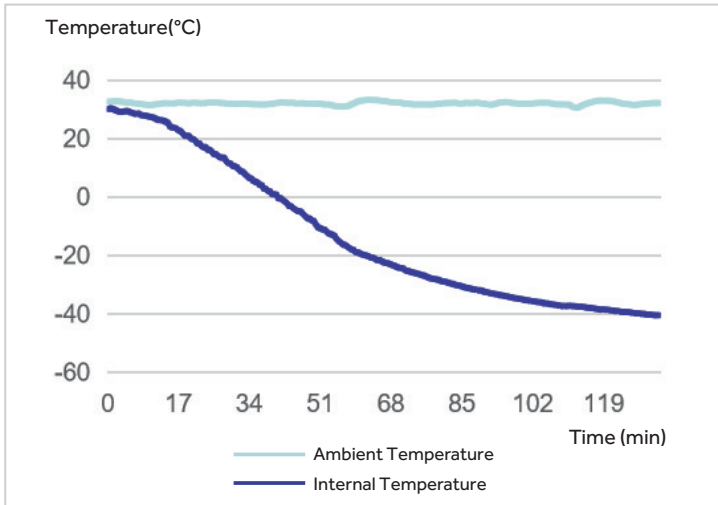
### Refrigerator Cool Down Curve



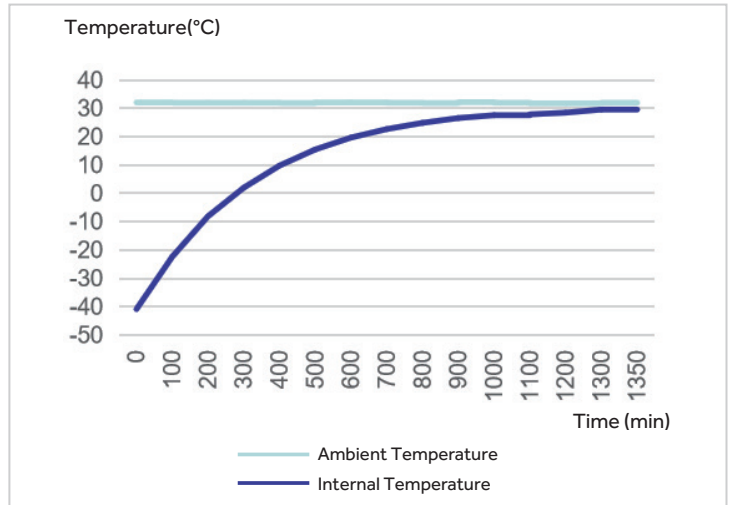
### Refrigerator Warm Up Curve



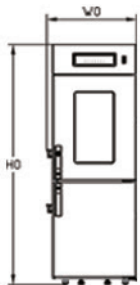
### Freezer Cool Down Curve



### Freezer Warm Up Curve



## Dimensions



W0-Total Width  
 W1-Refrigerator Width  
 W2-Freezer Width  
 D0-Total Depth  
 D1-Refrigerator Depth  
 D2-Freezer Depth  
 H0-Total Height  
 H1-Refrigerator Height  
 H2-Freezer Height

W0	W1	W2	D0	D1	D2	H0	H1	H2
738	593	553	834	585	545	1975	800	660

# Combined Refrigerator and Freezer Unit

## Specifications



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