

# Haier



## Pharmaceutical Refrigerator

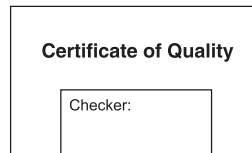
### Operation Manual

HYC-68

HYC-68A

HYC-118

HYC-118A



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- ◆ Read the Operation Manual carefully before using your appliance.
- ◆ Keep the Operation Manual in a safe place.
- ◆ Appearance, color and layout of the door may vary.
- ◆ The Scope of the Product Application: Pharmaceuticals, medicine and other related products which need a storage environment of 2°C-8°C.
- ◆ Translation of the original instruction.

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## Technical information

Product	Pharmaceutical Refrigerator			
Model	HYC-68	HYC-68A	HYC-118	HYC-118A
Volume	68L	68L	118L	118L
External panel	Sprayed steel sheet			
Door	Solid door	Glass door	Solid door	Glass door
Insulation	Rigid polyurethane foam (CFC-free)			
Shelves/Basket	2/1		3/1	
Cooling Type	Forced air cooling			
Compressor	Hermetically sealed compressor			
Refrigerant	R134a			
Over-temp warning	Audible and Visual			
Low-temp warning	Audible and Visual			
Door warning	Indicator flashes and audible alarm activated with 1 minute delay			
Net weight	38kg	38kg	41kg	46kg
Exterior Dimensions W×D×H	495×580×660mm		597×635×835mm	
Noise level(Lp)	35dB(A)		32dB(A)	
Electric Shock Prevention Type	I			
Foaming Agent	CP/IP			
Climate Type	4			
The connecting method of power wire	Y			

NOTE: Climate Type 4 means the temperature is +30℃, the relative humidity is 55%.

### Properties

Model	HYC-68	HYC-68A	HYC-118	HYC-118A
Power Supply(V/Hz)	115~/60	115~/60	115~/60	115~/60
Electrical Current(A)	1.1	1.1	1.11	1.46
Power(W)	72	72	75	140

### Accessories

Model	HYC-68	HYC-68A	HYC-118	HYC-118A
Key	2	2	2	2
Operation manual	1	1	1	1
Plastic bag	1	1	1	1

Note: Actual technical information may vary from published data due to continuous improvements. To obtain replacement keys, please contact your sales person.

## Maintenance and repair

 WARNING

Before starting any maintenance or repair work, please de-power the unit by unplugging the power cord from its electrical outlet. Technicians should take precaution to avoid inhaling harmful chemicals in the air.

### Cleaning

1. The unit should be cleaned once a month.
2. Use mild detergent water to wipe the external and internal surfaces of the refrigerator.
3. Use a soft cloth to clean and dry the surfaces after cleaning.
4. Do not use excessive water to clean the unit as water may damage the unit's insulation.
5. Do not use any lubricant for the cooling system as the compressor is hermetically sealed.

### Lighting Lamp Replacement

Please contact a professional at the after-sales center for any replacement of LED lamp.

- (1) Full or partial copying or reproduction of the contents in this Operation Manual is not permitted without written consent from Haier.
- (2) The edition of this manual for the appliance that you have just purchased may vary.

Your newly purchased refrigerator may somewhat differ from the description of this manual due to continuous improvement.

## Global Warming Potential

Model	Rated voltage ( VAC )	Rated frequency ( Hz )	CO <sub>2</sub> equivalent (Tonnes)
HYC-68	115	60	0.086
HYC-68A	115	60	0.086
HYC-118	115	60	0.114
HYC-118A	115	60	0.104

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do not vent into the atmosphere.

GWP=global warming potential

Refrigerant type	GWP
R134a	1430



 Meaning of crossed-out wheeled dustbin:

Don't dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.

## Safety precautions

Please read this Operation Manual carefully before using the appliance. Instructions in this manual must be strictly followed.

This manual contains significant information related to safety operation of your appliance.

Follow the instructions in this operation manual to safely operate your appliance and to avoid potential hazards.

**In this manual and on labels attached to this product, the words WARNING and CAUTION mean the following:**

**⚠ WARNING**  
A potentially hazardous situation, which, if not avoided, could result in serious injury or death.







This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

**⚠ CAUTION:**  
A potentially hazardous situation which, if not avoided, may result in minor or moderate injury or damage to the equipment.

### Label indications: (for example)

-  indicates carefulness.
-  Unplug the power plug
-  indicates prohibition.
-  indicates provisions.
-  Do not disassemble
-  Keep ground wire connected

This operation manual should remain attached to this appliance.

Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.

Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

Do not damage the refrigerant circuit.

This warning is only applicable for appliances with refrigerating circuits which are accessible by the user.

Do not use electrical appliances inside the food storage compartments of the appliance unless they are of the type recommended by the manufacturer.

The appliance must be positioned so that the plug is accessible.

The appliance must be placed on a solid and flat surface, or excessive vibration and noise may be produced when the appliance in operation.

If your cabinet is to be discarded, you must remove the door and leave the shelves in place. This will reduce the possibility of danger to children. And the flammable foaming needs to be disposed by professional persons.

## Correct Operation

The following procedures should be followed to allow a proper operation of the equipment.

1. The refrigerator unit should be connected to a dedicated power supply socket.
2. The high temperature alarm signal is turned on when the unit is powered up initially. The audible alarm can be canceled by pressing the buzzer cancel button. The high temperature alarm indicator will remain active until the temperature sensor bottle reaches  $5^{\circ}\text{C} \pm 2^{\circ}\text{C}$ .
3. Make sure the two temperature bottles are filled with 10% glycol solution.
4. The unit is preset in the factory to operate between 2 and 8°C.
5. The unit will reach stable temperature after operating for a few hours. Check the temperature in the test box to make sure the temperature meets the required value.
6. Turn on the interior light; make sure they are working properly.
7. Do not load large amount of product into the refrigerator at one time.

## Operation instructions

- ① Staff should be designated for daily inspection and record of the operation status of the appliance. Items in storage should be moved to another appliance if temperature fluctuates abnormally.

## Troubleshooting

Problem	Possible cause
Unit does not operate	Check the fuse condition.
	The unit is not powered up properly.
	There are problems with the input and control cables.
	Voltage is too low.
Unit does not reach set temperature.	The unit is loaded with too much warm material.
	There is no space between the stored materials for ventilation.
	The unit is under direct sunlight or heat radiation.
	The door is opened too frequently.
	The ambient temperature is too high.
Unit's ventilation is blocked.	
Unit emits excessive noise	Unit does not sit on a firm, flat surface.
	Unit touches other objects.
Warning indicator blinks and audible buzzer sounds	Temperature is not within 2 °C to 8 °C after a load is placed into the refrigerator.
	Door is not closed properly.
	Ambient temperature exceeds design limit.

## Safety precautions



### Warning

- Do not install the unit outdoors. Direct exposure to rain or water may cause electric leakage or shock.
- The refrigerator should be installed by a professional to avoid leakage of gas, liquid, or electric current.
- The refrigerator should firmly be installed on a solid ground to prevent tipping over to cause personnel injury.
- The refrigerator should not be placed in areas that water can splash to. Water can cause damage to the insulation of the unit and electric shock.
- Please use a dedicated power outlet. Do not connect the unit to a branch circuit as it may overload the circuit to cause a fire.
- The power plug should be properly plugged into the power outlet. Make sure the outlet is free of dust as it can cause a fire.
- The power outlet must be a grounded outlet to connect with the power plug of the refrigerator. If the ground wire is not available, please have a professional install a proper ground wire before the unit is plugged in to operate.
- Never use a gas line, water lines, telephone lines or lightning rod for ground connection of the refrigerator. These devices may cause electric shock or damage to the unit.
- Never place an object such as a pin or wire into the air vents inside the refrigerator. Moving parts behind the grill may cause an electric shock or personnel injury. Do not store any explosive materials in this refrigerator.
- Please keep the article inside at least 20mm away from the cabinet back wall!
- Users must not dismantle, repair or modify the equipment. Such improper operations may result in fire or personal injury.
- Do not place volatile or flammable materials in the refrigerator. They may cause an explosion or fire.
- Unplug the refrigerator from the power source before any serving or maintenance work is performed.
- Do not directly spray water onto the refrigerator to avoid electric shock or personnel injury.
- Do not perform any unauthorized dismantling or reinstallation of the unit, as this type of work may lead to fire or electric shock.
- Should there be a failure of the refrigerator, unplug the power cord of the unit from the power outlet to prevent electric shock or fire.
- When poisonous, harmful, or radioactive materials are handled and stored in the refrigerator, follow proper safety protocol for selection of installation site to avoid negative impacts to operators and environment.
- The wastes of the refrigerator need to be disposed by specialized personnel, no arbitrary movement of it is allowed; or otherwise, events of kids being shut in it may occur.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- For temperature abnormalities or alarming, if any, no matter whatever reason, articles in the refrigerator shall be transferred as soon as possible so as to avoid your losses.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- CP/IP foaming materials are flammable, need professional processing.
- Do not attempt to use the handle to lift or move the unit to avoid damaging the freezer or injuring personnel.

## Names of components



Your newly purchased refrigerator may appear to be somewhat different due to continuous improvement.

### 7. Adjustment of alarm temperature range: See Figure 1

There are two methods to set the high temperature alarm “HA” and low temperature alarm “LA”. Press and hold “Alarm” button for 10 seconds. LED displays “HA”, then press “SET” button again quickly, code “HA” flashes. Adjust the set temperature by pressing “+” and “-” sign. The increment is 1 C. The recommended range should be within 6 C of the preset cabinet temperature. Press the “Alarm” button to return to the previous menu until the display returns to the temperature display. Select “LA” mode and press “SET” to show “HA” mode. Use the “+” or “-” sign to change the LA value. The low temperature alarm value should not be 6 C lower than the preset cabinet temperature.

### 8. Defect Display

When there is a sensor error, the display will indicate “EE” and alarm at the same time. The unit will continue to work at the failure mode. Take precaution to protect the stored products and contact the after sales department as soon as possible.

### 9. Interior Light

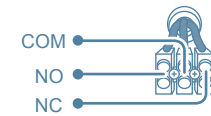
A LED is equipped in the cabinet for ease of viewing stored products. You can use the light switch to turn the light on and off. When the door is opened, the light is turned on. The light is turned off when the door is closed. Note: The unit should be located such that it is easy to reach the power plug in case of an emergency. The ventilation should never be blocked in all cases.

### 10. Power failure alarm function

When the power is down, power-off alarm function is activated, buzzer with 1 Hz frequency continuously beeps, at the same time alarm indicator light of the board flashes, if alarm equipment is connected to the remote alarm port, it will alarm synchronously and last at least 8 hours. Press the “ALARM” button to cancel the power off alarm, while the remote alarm function is cancelled.

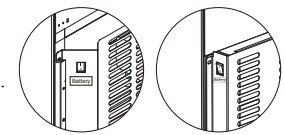
### 11. Remote alarm terminal

- Remote alarm terminals are installed on the refrigerator and the alarm signal behind the compartment is output by the terminals. The bearing capacity of the terminals is DC 30V, 2A.
- Terminal output:  
Remote alarm terminals include NO, NC and COM.  
The user can choose “NO” or “NC” if needed.



### 12. Battery Switch

- Before products go out, the battery switch is closed, the users must open it before using at the first time. Then when the power failure occurs, the products can realize the function of power failure alarm.
- Battery switch is installed on the back of the products, with “Battery” label;
- Battery switch “I” indicates that battery is on; “O” indicates that battery is off.



HYC-118/118A

HYC-68/68A

## Operation instructions

### 1. Microprocessor Temperature Controller

Adjust the cabinet temperature control via the controller mounted on the upper right corner of the refrigerator.

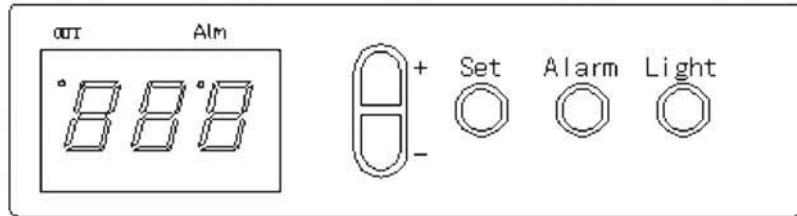


Fig 1

### 2. Unlock operation instructions

If there is no operation in 20s, the keys for temperature setting & parameter setting & high/low temperature setting will be locked, the keys for alarm & light & highest/lowest temperature checking & high/low temperature alarm checking will still be available. Unlock: press "+", the display screen blinking displays "01", then press "+" or "-" to choose the password, then press "Set" to unlock. Once unlock successfully, the buzzer beeps once and the display screen displays the temperature normally. If the password is wrong, the display screen will flicker and it will quit the system automatically if there is no operation in 5s.

### 3. Password setting

The default unlock password is "06". After unlock, press "Set" and "Alarm" at the same time for 5s, the display screen displays "06", then press "+" and "-" to set the password. Press "Set" to save the setting. If there is no operation in 5s, password setting will be saved automatically. The password could be selected from 05, 06, 07, ..., 29, 30.

When setting the parameters and high/low temperature alarm value, it will quit the system automatically if there is no operation in 10s and display the inner temperature again.

### 4. Temperature Adjustment

Please refer to Figure 1. Factory sets the unit to operate at 5 °C.

To change the set temperature, press the "Set" button and the display shows the pre-set temperature and flashes. Adjust the cabinet temperature with the buttons "+" and "-" by 1 °C increment when the temperature flashes. The control automatically returns to the temperature mode 10 seconds if there is no change of operation on the control panel. The cabinet will operate to the new temperature setting.

#### High and Low Temperature Alarm:

The control system will be in the alarm mode if the temperature is warmer than the high alarm temperature setting or lower than the low alarm. Press "Alarm" button to end the buzzer. The flashing light will stay on until the cabinet temperature returns to the alarm range.

### 5. Check alarm temperature: See figure 1

Press "Alarm" and "+" together to check the high temperature alarm setting.

Press "Alarm" and "-" together to access the low temperature alarm setting.

### 6. Check recent highest and lowest cabinet temperature: See figure 1

Press "Set" and "+" together to review the recent highest cabinet temperature.

Press "set" and "-" together to review the recent lowest cabinet temperature.

### 1. Control Panel

Operational status and temperature are displayed on the control panel. Press the button the control panel will show the current temperature and alarm data.

### 2. Shelf

Products can be stored on the shelves.

### 3. Door Handle

Door handle is elegant and unique.

### 4. Leveling leg

The height of the unit can be adjusted easily to secure the unit onto the floor.

### 5. Interior Lights

LED

### 6. Door Support

The door support is to provide an extra support for the glass to prevent the door from sagging during transportation.

## Location

This refrigerator should be installed in a place which satisfies the following requirement:

### 1. Solid and flat surface

The unit should be placed on a solid and flat surface to avoid excessive vibration and abnormal noise while the unit is in operation.

### 2. Away from heat source

The refrigerator should not be placed near heat sources such as radiator, gas and/or coal stove. If so, the cooling efficiency will be impacted.

### 3. Away from sunlight

The refrigerator may not operate properly if it is directly under sunshine. Extended exposure of sunlight will shorten the service life of the refrigerator.

### 4. Dry

The appliance should not be placed in a damp area.

### CAUTION!

Circuit breaker

If the appliance has to be used in a damp area, a circuit breaker must be installed and the appliance must be grounded. The circuit breaker is installed in the power circuit. Contact authorized retailer or technician of the manufacturer for further information.

### 5. Clean and tidy

The refrigerator should be operated in an area free from chemicals and dust which might generate gas and flammable materials.

### 6. Ventilation

The refrigerator should be placed in a well ventilated area. Poor ventilation may reduce the cooling efficiency of the unit.

### 7. Grounding

Appliance must be grounded to prevent electrical hazards.

### Warning

Power plug with a ground connection should be used on the refrigerator to prevent electric shock.

Do not use water pipes as the grounding source.

Do not ground the unit to gas lines.

Do not ground the unit to telephone lines and lightning rod which may pose a dangerous condition.

### 8. Ensure that no article can fall on the top of the appliance.

## Installation

1) Remove all package assembly including foam pedestal and adhesive tape used to fix accessories.

2) Inspect the standard accessories that are part of the shipment against the packing list. Should there be any discrepancy, please consult with your sales person.

3) Place the unit following instruction mentioned above under Section "Location"

4) Clean the refrigerator before power up according to instruction in section "Cleaning"

5) After placing the unit on a firm and flat location, and completing the cleaning process, let the unit stand still for 30 minutes before powering up to ensure a smooth operation.

Transportation and relocation requirement: clamp truck or forklift truck.

Note: Please keep the unit away from any crash, being excessive slant, exposure to solarization,

Please place the unit in the dry and well ventilated room.



ATTENTION

To facilitate the inquiry, please copy the refrigerator model and factory number onto the warranty.