



COMMERCIAL REFRIGERATOR/FREEZER
商用冷藏柜 / 冷冻柜

INSTRUCTION MANUAL 使用手册

FOR END USER
供最终用户使用

HRE B series
HRE B 系列
HFE B series
HFE B 系列

L1R003301 (100108)



WARNING

Do not wet this product or use it in potentially wet conditions. This may cause electric leakage, resulting in electric shock or fire.

IMPORTANT

1. This booklet is an integral and essential part of the product and should be kept and preserved by the user. Please read carefully the guidelines and warnings contained herein as they are intended to provide the user with essential information for the continued safe use and maintenance of the product. In addition, it provides GUIDANCE ONLY to the user on the correct services and site location of the icemaker. Please preserve this booklet for any further consultation that may be necessary.
2. This is a commercial refrigerator/freezer, and should be destined only to be used for the purpose for which it has been expressly designed. Any other use should be considered improper and therefore dangerous. The manufacturer will not be held liable or responsible for any damage caused by improper, incorrect and unreasonable use.

I. GENERAL INFORMATION

1. CONSTRUCTION (HRE-140B-CHD/SHD)

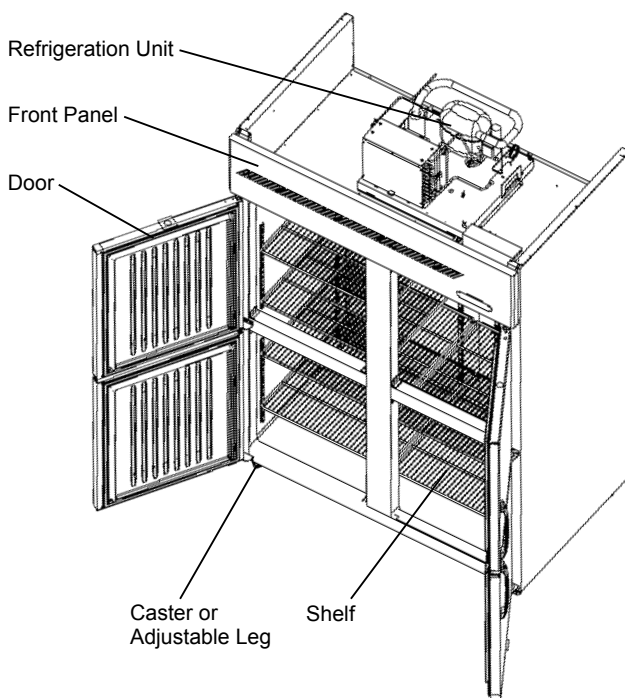


Fig. 1

2. ACCESSORIES

Width	700 mm	1400 mm
a) Shelf:	4	8
b) Shelf Clip:	16	32
c) Spanner:	1	
d) Spacer:	4	

II. INSTALLATION AND OPERATING INSTRUCTIONS

1. LOCATION

IMPORTANT

This refrigerator/freezer is not intended for outdoor use. Normal operating ambient temperature should be within 5°C to 43°C.

For best operating results:

- * The refrigerator/freezer should not be located next to ovens, grills or other high heat producing equipment.
- * The location should provide a firm foundation for the equipment.

[Caster Models]

- * To adjust the height of the unit, use the Spanner (accessory) to loosen the Casters and insert the Spacers (accessory). The unit should always be level from side to side and back to front.

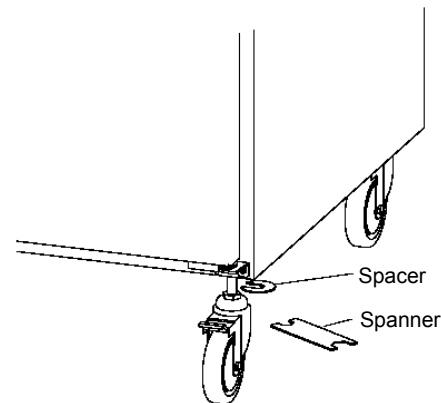


Fig. 2

- * All the four Casters are provided with stoppers. Always lock the stoppers of the front Casters when in use.
- * Unlock the Casters to move the unit for cleaning or other purposes.

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[Adjustable Leg Models]

- * To adjust the height of the unit, turn the Adjusters of the Adjustable Legs. The unit should always be level from side to side and back to front.

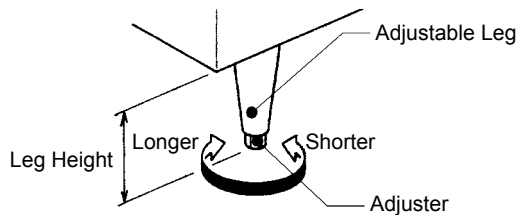


Fig. 3

CAUTION

The height of the Adjustable Legs must be within 9 - 12 cm. If extended too much, the Legs may become weak or the Adjusters can come off, causing unexpected injuries.

- * Avoid a site where dripping is not allowed. Especially, a side-by-side or back-to-back installation (possibly with other manufacturer's unit) may cause condensation between the two units, resulting in dripping onto the floor.
- * Do not expose the unit to direct sunlight or higher temperatures.
- * Allow at least 100 cm clearance at the front of the unit for smooth door operation. Also allow at least 30 cm clearance from the ceiling to the top of the unit for proper air circulation.

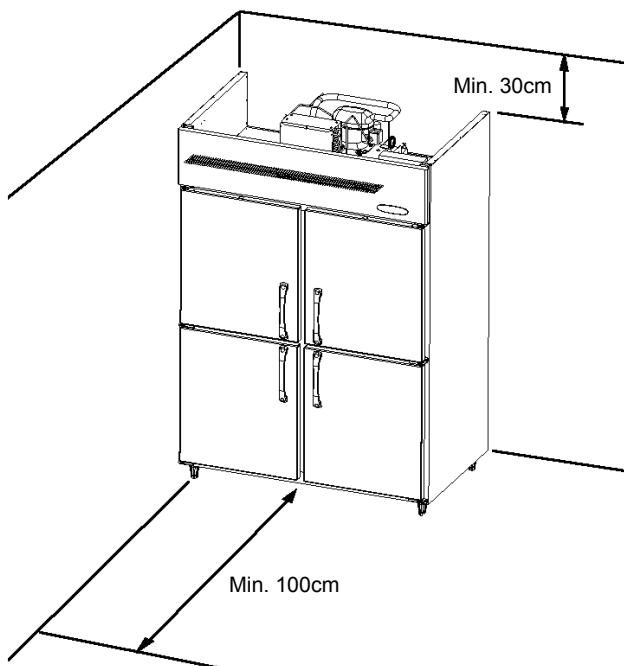


Fig. 4

2. SHELF AND SHELF CLIP

- * The Shelf is adjustable in 1" increments. Adjust the Shelf Clips according to the height of stored items.
- * To attach the Shelf Clip, insert the upper tab into an adjust hole in the Shelf Post to hook the Shelf Clip, and push the lower tab into another adjust hole until it locks in place. To detach the Shelf Clip, reverse the above procedure.

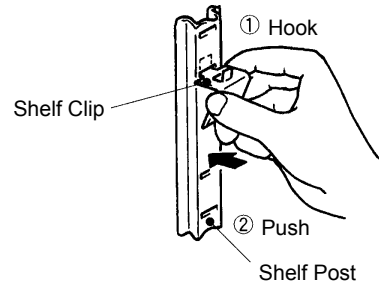


Fig. 5

CAUTION

Attach the Shelf Clips properly to make the Shelf level.

3. ELECTRICAL CONNECTIONS

- * This refrigerator/freezer must be plugged into the separated power receptacle which is readily accessible and has enough capacity. The maximum allowable voltage variation should not exceed ± 10 percent of the nameplate rating. See the Nameplate.
- * If the supply cord and the plug should need to be replaced, it should only be done by a qualified service engineer to avoid any danger.

4. OPERATION

IMPORTANT

1. Be careful not to wet the machine compartment. This might cause failure or electric shock hazard.
2. To prevent electric shock, do not touch the Attachment Plug with wet hands.
3. Do not store any volatile or flammable substances, such as benzene, ether, adhesives and LPG, in the unit.
4. This refrigerator/freezer is designed only for temporary storage of foods. Use for any other purposes (ex. storage of chemicals or

medical supplies such as vaccine and serum) could cause deterioration of stored items.

5. Do not throw anything onto the Shelves or load more than 60 kg on each of them. They may fall off and cause injury.
6. Do not store bottles or cans near the air outlet. They may freeze up and break, causing a risk of injury.
7. Do not use combustible spray or place volatile and flammable substances near the unit. They could catch fire from a spark of a switch or the like.
8. Do not put anything into the machine compartment or the air inlet/outlet. The Fan rotating rapidly inside may cause injury or heat.
9. Energise the refrigerator/freezer for 1 hour and check for proper temperature before putting foods in the cabinet.
10. Do not block the air inlet/outlet with foods.
11. Do not pack the cabinet with foods. Allow some space between them to ensure a good air flow.
12. Do not put in warm or hot foods. Let them cool first, or they will raise the cabinet temperature and could deteriorate other foods in the cabinet or overload the refrigerator/freezer.
13. Make sure all items are snug on each Shelf.
14. Moist or fresh foods and those with a strong smell like seafood should be wrapped up in a plastic film or packed in a container. Otherwise the foods may dry up or give their smells to other foods.
15. Foods containing acetic acid or yeast should be wrapped up in a plastic film. Otherwise they may accelerate corrosion of the Evaporator and Copper Tubes, resulting in failure.
16. Foods intended for direct human consumption should be stored on the Shelf in a proper container and protected from direct contact with the cabinet walls.
17. Do not use the freezer to freeze foods. It is designed only to store frozen foods. High

quality ice cream may melt during defrost cycle and should not be stored in the freezer.

18. The Doors may become difficult to open just after closed because of the negative pressure created inside the cabinet. Wait for about 30 seconds.

[a] START UP

- 1) Plug in the unit.
- 2) The Compressor and Condenser Fan Motor will start in 3 minutes.

[b] FRONT PANEL

To open and close the Front Panel:

Pull each side of the Front Panel toward you to release it from the Holder on each side of the bottom, and swing up the Front Panel as shown. To close the Front Panel, fit both sides of the bottom securely in the Holders.

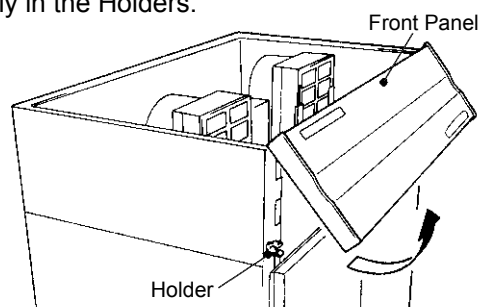


Fig. 6

To hold the Front Panel open:

Hook the Front Panel securely on both sides of the top as shown. It may be unhooked when pulled up in the direction of arrow 1.

To unhook the Front Panel, lift up both sides of the front (arrow 1) and push in the direction of arrow 2.

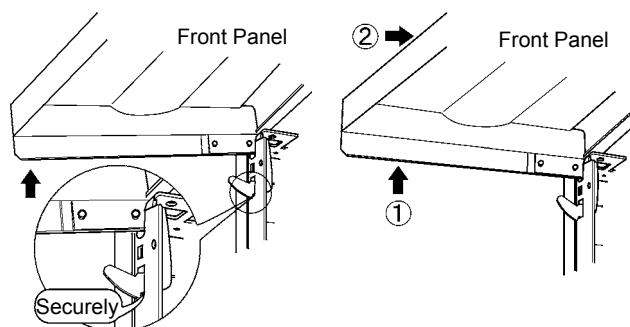


Fig. 7

ENGLISH

To remove the Front Panel:

Release both sides of the bottom from the Holders, and lift it off vertically.

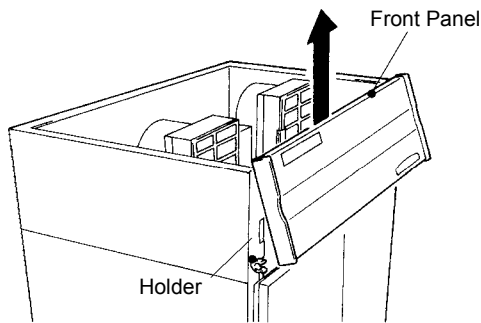


Fig. 8

[c] CABINET TEMPERATURE SETTING

The cabinet temperature is factory-adjusted to 3°C for the refrigerator and -18°C for the freezer. If necessary, readjust the temperature as follows:

- 1) Open the Front Panel.
- 2) Press the Set Point Button to display the current set point temperature.
- 3) Keep pressing the Set Point Button, and push the Temperature Control Button until the Temperature Display Window shows the desired temperature. The cabinet temperature is adjustable between -0°C and 16°C (or -6°C and 12°C) for the refrigerator and between -7°C and -25°C for the freezer.
- 4) The displayed cabinet temperature is adjusted to be almost equal to the temperature at the center of the cabinet without foods. But it can be different from the actual temperature depending on arrangement of stored foods, frequency of door opening or measuring points.

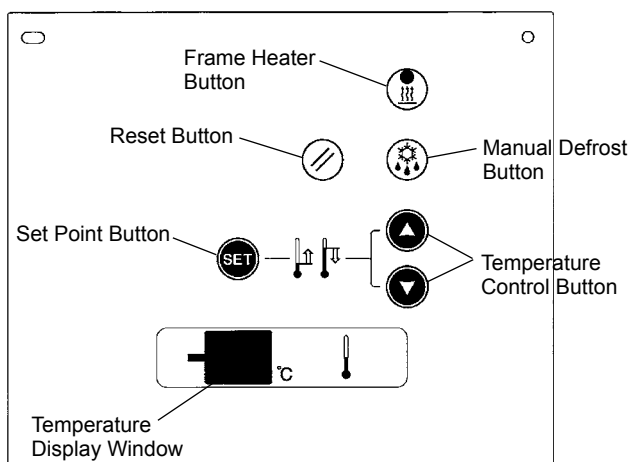


Fig. 9

[d] FRAME HEATER

The Front Frame is provided with a built-in heater to prevent condensation. It is factory-adjusted to "low". If condensation forms on the Front Frame, the Frame Heater can be adjusted to "high".

Press the Frame Heater Button on the Operation Panel for more than 3 seconds. The lamp will illuminate and the Frame Heater will be adjusted to "high".

To change the setting to "low", press the Frame Heater Button for more than 3 seconds. The lamp will go out and the Frame Heater will be set to "low".

[e] DEFROST

The refrigerator/freezer automatically defrosts the Evaporator every 6 hours. For the refrigerator, the Temperature Display Window shows the cabinet temperature and "dF" alternately during defrost cycle. For the freezer, the Temperature Display Window shows "dF" during defrost cycle.

To start a manual defrost cycle, press the Manual Defrost Button for more than 5 seconds. The next defrost cycle will begin in 6 hours.

[f] SHUT DOWN

- 1) Before shutting down the unit, move the stored foods into another refrigerator/freezer.
- 2) Unplug the unit or disconnect the main power supply.
- 3) When preparing the unit for long storage, clean the cabinet interior and Door Gaskets, dry them thoroughly and store the unit in a dry place.

III. MAINTENANCE AND CLEANING INSTRUCTIONS

IMPORTANT

1. Before carrying out any cleaning or maintenance operations, unplug the unit.
2. Do not touch or wet the machine compartment parts. This could result in failure or breakdown.

1. INTERIOR, EXTERIOR, SHELF

- * Clean the interior and exterior at least once a week for sanitary use. The unit can be moved by unlocking the Casters [caster models].
- * Clean off the interior and exterior with a soft cloth soaked in cold or warm water containing the proper amount of neutral cleaner and wrung dry. Do not use a water jet to clean the machine compartment.
- * Chemical agents other than neutral cleaner might cause damage to the interior and exterior surfaces.
- * The Door Gasket and its contact surface get soiled easily. Clean every surface of these parts thoroughly. Remnants of food will accelerate aging.
- * Use a cloth to wipe off any water staying inside the cabinet.

2. AIR FILTER

IMPORTANT

To prevent deformation, do not wash the Air Filter with hot water above 40°C.

A plastic mesh air filter removes dirt or dust from the air, and keeps the Condenser from getting clogged. As the filter gets clogged, the refrigerator/freezer's performance will be reduced. Check the filter at least twice a month. When clogged, use warm water and a neutral cleaner to wash the filter. Do not operate the unit with the Air Filter removed, or the Condenser will get clogged, resulting in failure.

- 1) Open the Front Panel and remove the Air Filter.
To prevent injury, do not touch the Condenser Fins directly.

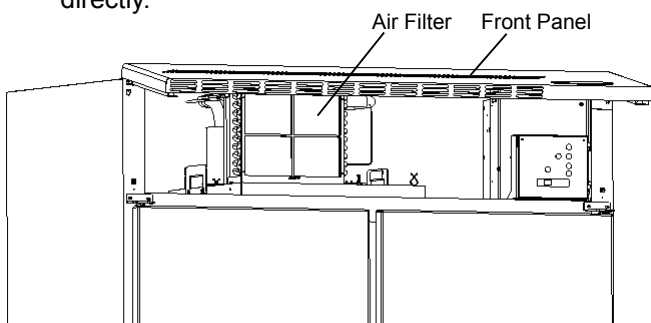


Fig. 10

- 2) Wash the Air Filter carefully with cold or warm water containing the proper amount of neutral cleaner. Rinse and dry the Air Filter thoroughly.

- 3) To refit the Air Filter, attach it to the Guide at the top of the Condenser and put the Tabs into the slots in the Refrigeration Unit Base.

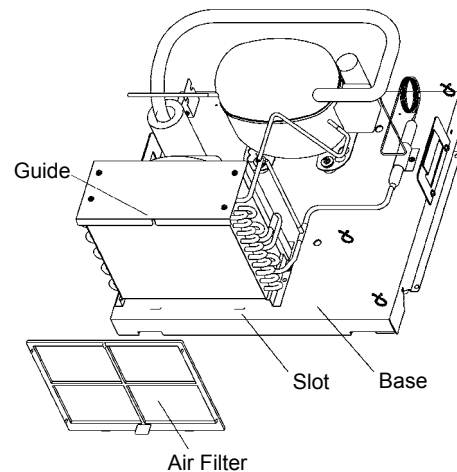


Fig. 11

IV. BEFORE CALLING A SERVICE AGENT

IMPORTANT

1. If the Temperature Display Window on the Operation Panel indicates an error code or something seems wrong with the unit, check for possible causes according to the following instructions. If the problem still exists, immediately contact an authorized Hoshizaki service company.
2. When contacting a service company, let them know the model name, serial number, date of installation (see Warranty Card) and state of the trouble.
3. Do not attempt to repair the unit yourself.

1. TROUBLES WITH ERROR CODE INDICATION

Code	Problem and Possible Cause
E1	Cabinet temperature too high. (1) Ambient temperature too high (above 43°C). (2) Warm or hot foods inside. (3) Door(s) left open.
E2	Cabinet temperature too low. (1) Ambient temperature too low (below 5°C). (2) Frozen foods being defrosted.
E3	Defrost error. Immediately contact an authorized Hoshizaki service company.

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Code	Problem and Possible Cause
E4, E7	Air Filter clogged. (1) Ambient temperature too high (above 43°C). (2) Air Filter not clean.
E5, E8, E9	Thermistor defective. Immediately contact an authorized Hoshizaki service company.
EA, Eb, Ed	Controller Board defective. Immediately contact an authorized Hoshizaki service company.
EE	Compressor related error. Immediately contact an authorized Hoshizaki service company.

* To cancel the error code indication:

If only one code is flashing, open the Front Panel and press the Reset Button on the Operation Panel. (The codes “E7”, “E8”, “E9”, “EA”, “Eb” and “Ed” cannot be canceled.)

If more than one code is flashing, press the Reset Button to cancel the first code in the highest priority and press it again to cancel the other code(s).

The error codes are indicated in the following order of priority:

EA > Ed > EE > E5 > E8 > E9 > E4 > E7 > E3 > E1 > E2

* The code “dF” is not an error code but indicates the unit is in defrost cycle.

2. TROUBLES WITHOUT ERROR CODE INDICATION

1) Unit fails to operate:

- (1) Unplugged.
- (2) Power failure.
- (3) Main power supply disconnected.

2) Poor cooling performance:

- (1) Ambient temperature too high (above 43°C).
- (2) Door(s) opened too often.
- (3) Cabinet temperature setting too high.
- (4) Too packed with foods.
- (5) Air filter not clean.
- (6) Door(s) left open.

3) Condensation around Door(s):

- (1) Ambient humidity too high.
- (2) Frame Heater Button set to “low” (lamp off).
- (3) Door(s) not closed tightly.

4) Noise:

- (1) Normal operating sounds of Compressor or Condenser Fan.

5) Frosting inside compartment:

- (1) Ambient humidity too high.
- (2) Door(s) opened too often.
- (3) Too packed with foods beyond load line.

V. DISPOSAL

When disposing of the refrigerator/freezer, contact an authorized Hoshizaki service company or a specialized waste disposal company.

VI. WARRANTY

Hoshizaki warrants to the original owner/user that all Hoshizaki branded products shall be free of defects in material and/or workmanship for the duration of the “warranty period”. The warranty shall be effective for one year from the date of installation. Hoshizaki’s liability under the terms of the warranty are limited and shall exclude routine servicing, cleaning, essential maintenance and/or repairs occasioned by misuse and installations not in accordance with Hoshizaki guidelines.

Warranty repairs should be completed by an approved Hoshizaki dealer or service agency using genuine Hoshizaki components.

To obtain full details of your warranty and approved service agency, please contact your dealer/supplier, or the nearest Hoshizaki Service office:

Hoshizaki Singapore

TEL : +65 6225 2612

FAX : +65 6225 3219

Hoshizaki Lancer Pacific

TEL : +61 8 8268 1388

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