



COUNTER SHOWCASE

INSTRUCTION MANUAL

HNC-120BE-L/R-BLH
HNC-150BE-L/R-BLH
HNC-180BE-L/R-BLH
HNC-210BE-L/R-BLH
HNC-120BE-L/R-BH
HNC-150BE-L/R-BH
HNC-180BE-L/R-BH
HNC-210BE-L/R-BH

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IMPORTANT SAFETY INFORMATION

Throughout this manual, notices appear to bring your attention to situations which could result in death, serious injury, or damage to the unit.

⚠WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates a hazardous situation which, if not avoided, could result in damage to the unit.
⚠HYGIENE	Indicates important precautions for hygiene and food safety.
IMPORTANT	Indicates important information about the use and care of the unit.

This counter showcase uses HFC-free refrigerant (isobutane) and HFC-free foam insulation that are non-ozone-depleting and environmentally sustainable materials having very low global warming potential.

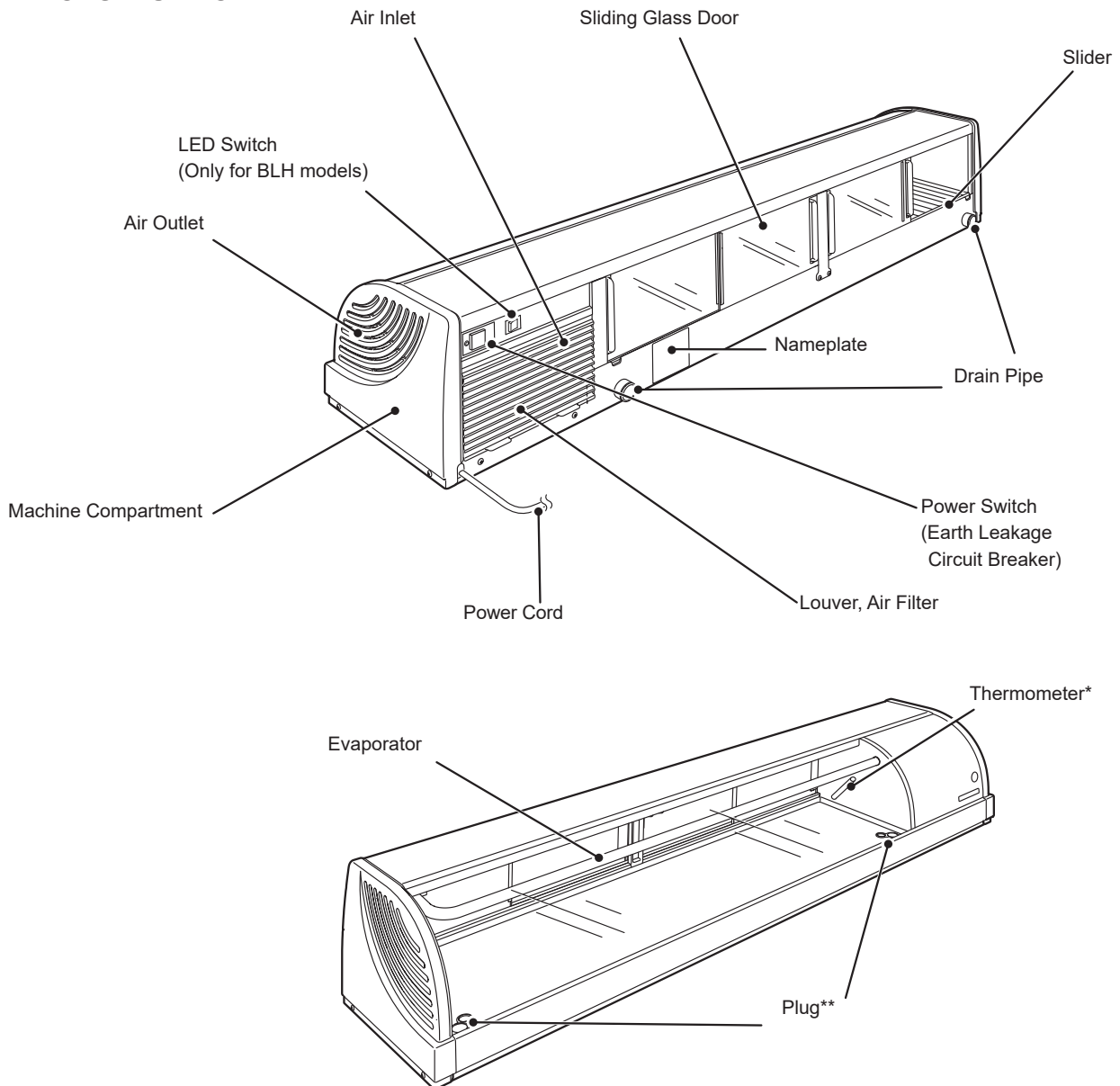
⚠WARNING
This counter showcase contains flammable refrigerant in its cooling unit; installation, handling, servicing and disposal must therefore only be carried out by authorized technicians.
The refrigerant contained in this counter showcase is flammable and sealed in the refrigeration system. Although the refrigerant does not leak out under normal usage, take utmost care when handling this counter showcase so as not to cause any damages to the system.
In the case of accidental damage to the refrigeration system causing refrigerant leak: * Do not create a source of ignition in the area. * Do not operate electrical switches or plugs in the area. * Do not use naked flame. * Immediately ventilate the area by opening doors and/or windows. * Call service engineer.

IMPORTANT
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 installer/user with essential information for the proper installation and the continued safe use and maintenance of the product.
Please preserve this booklet for any further consultation that may be necessary.

▲WARNING	
This is a counter showcase, 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.	
The installation, and relocation if necessary, must be carried out by qualified personnel, in accordance with current regulations, according to the manufacturer's instructions.	
Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.	
Do not damage the refrigerating circuit.	
The use of any electrical appliance involves the observance of some fundamental rules. In particular: * Instances of high humidity and moisture increase the risk of electrical short circuits and potential electrical shocks. If in doubt, disconnect the showcase. * Do not damage the power cord or pull it in order to disconnect the showcase from the electrical supply network. * If the supply cord and the plug should need to be replaced, it should only be done by a qualified service engineer in order to avoid a hazard. * Do not touch the electrical parts or operate the switches with damp hands. * This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, it can however 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 providing they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. * Children shall not play with the appliance. * Cleaning and user maintenance shall not be made by children without supervision. * Do not attempt to modify the showcase. Only qualified personnel may disassemble or repair the appliance. * Do not store any volatile or flammable substances such as benzine, ether, adhesives and LPG, or any explosive substances such as aerosol cans with a flammable propellant in the unit.	
	The meaning of this ISO 7010 W021 symbol is: Warning: Risk of fire

I. GENERAL INFORMATION

1. CONSTRUCTION



Note:

* The thermometer shows the maximum interior temperature.

** Always attach the plug(s) to the drain holes located in the showcase.

2. ACCESSORIES

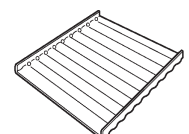
	HNC-120BE	HNC-150BE	HNC-180BE	HNC-210BE
Hose	1	1	1	1
Joint	1	2	2	2
Food Mount A (Large)	2	3	4	5
Food Mount B (Small)	1	1	1	1



Hose



Joint



Food Mount

II. INSTALLATION AND OPERATING INSTRUCTIONS

1. CHECKS BEFORE INSTALLATION

- * Visually inspect the exterior of the shipping container, and any severe damage noted should be reported to the carrier.

NOTICE
Remove shipping carton, evaporator spacer, tape(s) and packing. If packing material is left in the showcase, it will not work properly.
IMPORTANT
Remove shipping tape holding the door.

- * Remove the package containing accessories.
- * See the nameplate on the rear of the showcase, and check that your voltage supplied corresponds with the voltage specified on the nameplate.

2. LOCATION

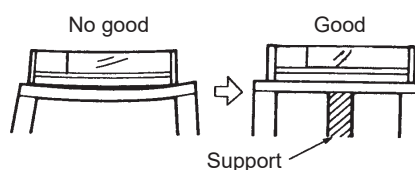
⚠ WARNING
This showcase is not intended for outdoor use.
IMPORTANT
Normal operating ambient temperature should be within 10°C to 30°C. Operation of the showcase, for extended periods, outside of these normal temperature range may affect cooling performance.

For best operating results:

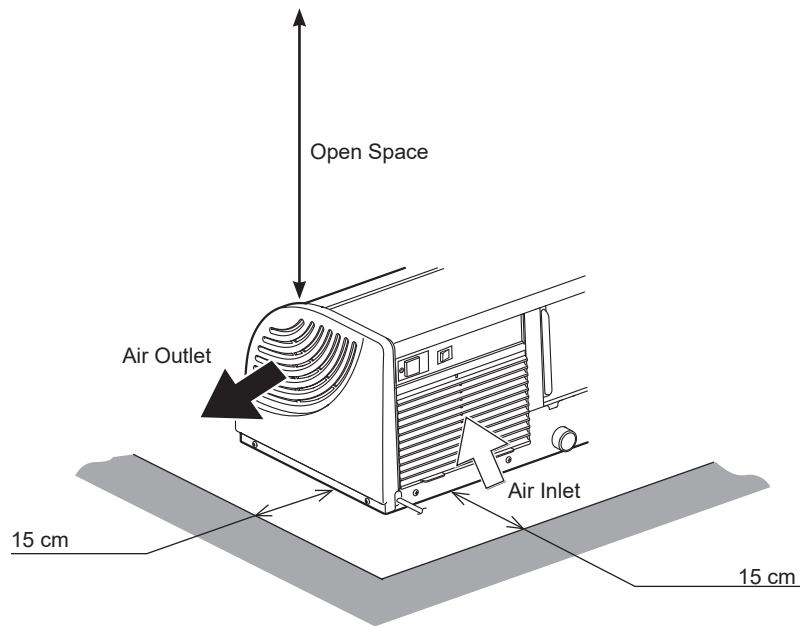
- * The showcase should not be located next to ovens, grills or other high heat producing equipment.
- * The location should provide a firm foundation for the equipment across its entire bottom surface. Any unevenness or the insertion of packing resulting in only partial contact could result in the case becoming damaged or deformed causing a failure. The showcase should always be level from side to side and back to front.



If the foundation is not firm enough, it may warp and cause some space between its center and the showcase bottom. In this case, provide a support to keep the foundation level.



- * Avoid a site where dripping is not allowed.
- * Do not expose the showcase to direct sunlight or higher temperatures to prevent damage to the plastic housing.
- * Allow at least 15 cm clearance between the condenser air inlet/outlet and the wall or other equipment for proper air circulation. The rear of the showcase should have enough space for smooth operation of the power switch and for easy access to the louver and air filter. Open space is required at the top of the showcase.



3. SET UP

⚠ CAUTION

Carry the showcase by holding its bottom.

When handling the carton or the unpacked unit, work in pairs to prevent injury.

Do not tilt the unit more than 45°.

Do not remove the tape(s) fixing the sliding glass doors until the showcase is installed.

NOTICE

Remove all the accessories inside before moving the unit.

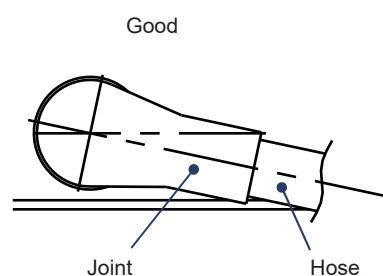
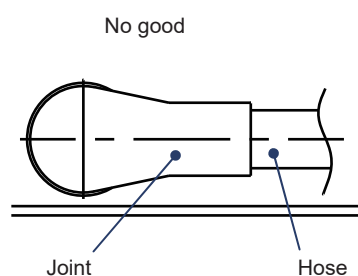
- 1) Unpack the showcase, and remove all shipping carton, evaporator spacer, tapes and packing BEFORE operating the unit. Be careful not to damage the exterior panels when handling the showcase.
- 2) Position the showcase in a selected site. Clean the interior with soap and water and rinse thoroughly.
- 3) Level the showcase in both the left-to-right and the front-to-rear directions.
- 4) The perimeter where the machine touches the counter should be sealed with silicone.

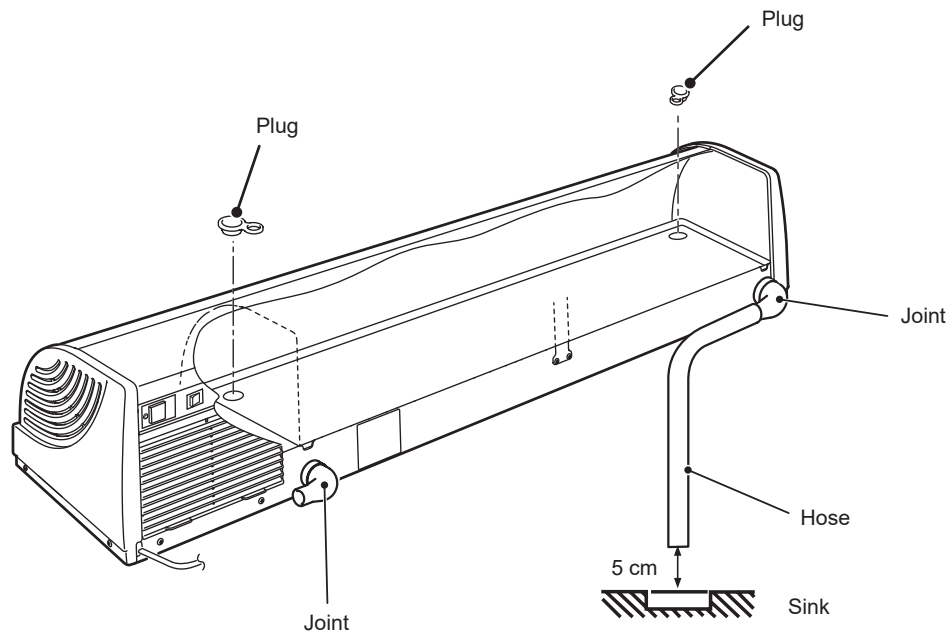
4. ELECTRICAL CONNECTIONS

This showcase must be plugged into the separated power receptacle which has enough capacity. The maximum allowable voltage variation should not exceed ± 6 percent of the nameplate rating. See the nameplate.

5. DRAIN CONNECTIONS

- * The hose may be connected to either right or left joint, whichever is convenient.
- * The joint must be tilted as shown below to turn the hose connection downward.
- * Keep more than 5 cm air gap between the vertical drain pipe end and the sink.

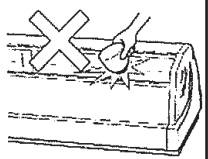




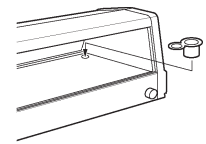
6. FINAL CHECK LIST

- 1) Is the showcase level?
- 2) Is the showcase in a site where the ambient temperature is within 10°C to 30°C all year around?
- 3) Have all shipping carton, evaporator spacer, tape(s) and packing been removed from the showcase?
- 4) Have all electrical and piping connections been made?
- 5) Has the power supply voltage been tested or checked against the nameplate rating?
- 6) Has the user been given the instruction manual and instructed on how to operate the showcase and the importance of periodic maintenance recommended?
- 7) Has the user been given the name and telephone number of the authorized service agency?

7. START UP

⚠ WARNING	
Be careful not to let water into the machine compartment and over the exterior. This might cause an electric shock hazard.	
To prevent damage to the glass parts, do not place or hit any tableware, bottles or edged tools directly on the glass surfaces. Even a tiny flaw may grow into a crack (a few days) later.	
⚠ HYGIENE	
Be sure to prechill the showcase before putting foods in. Store only pre-refrigerated items in the showcase. It takes longer for foods to cool in the showcase than in a refrigerator. After service hours, move foods into a refrigerator.	
Only open the doors when necessary and do not leave them open as the interior temperature may rise, resulting in food deterioration.	
Before unplugging the showcase for defrosting, first remove the items inside to protect them from drops of defrost water.	
The maximum safe height for displaying food products is 9 cm above the interior bottom. Food products should not be placed above this height as they may not remain cold enough to avoid spoilage.	
If the showcase is turned off, wait for at least 3 minutes before restarting the showcase. Otherwise the thermal motor protector may operate and allow defrost water to drip onto the items inside. The thermal motor protector will reset automatically in 90 minutes.	

To avoid entrance of vermin during operation, the drain outlet(s), on the right and left under the food mounts must always have the drain plug(s) fitted.

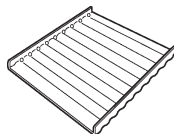


IMPORTANT

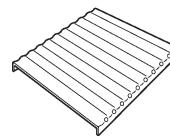
It is normal to find condensation on the showcase in humid or rainy weather. Simply wipe it off with a soft cloth from time to time.

Control the food temperature by placing the food mounts as follows:

Normal condition



When food freezes



- 1) Clean inside the showcase.
 - 2) Plug in the showcase, and turn on the circuit breaker.
- * When not in use, dry the showcase thoroughly and store it in a dry place.

III. MAINTENANCE AND CLEANING INSTRUCTIONS

⚠ WARNING

Before carrying out any cleaning or maintenance operations, unplug the showcase.

NOTICE

Do not disassemble the showcase further than illustrated in "I. 1. CONSTRUCTION".

Do not touch or wet the machine compartment parts. This could result in failure or breakdown.

To prevent possible damage, do not clean the plastic parts with water above 40°C or in a dishwasher.

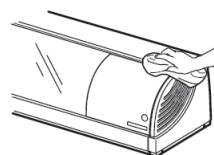
1. INTERIOR/EXTERIOR

- * Clean the interior and food mounts every day for sanitary use.
- * Clean off the exterior with a soft cloth soaked in warm water containing a neutral cleaner and wrung dry. Do not use a water jet to clean the exterior.
- * Use only a neutral cleaner. Other chemical agents might cause damage to the interior and exterior surfaces.

Note: To prevent damage to the part surfaces and the coating on the evaporator, do not use a scourer on the interior/ exterior surfaces.

2. GLASS

- * Clean periodically to keep the glass film effective.
- * Clean with a soft wet cloth. Do not wipe with a dry cloth.
- * Do not use a brush or abrasive cleaner.



3. DRAIN PIPE CLEANING

- 1) Either mix 1 liter of water with 3.7 ml of 5.25% sodium hypochlorite solution in a suitable container, or the recommended Hoshizaki sanitizer as directed.
- 2) Disconnect the hose from the joint(s).

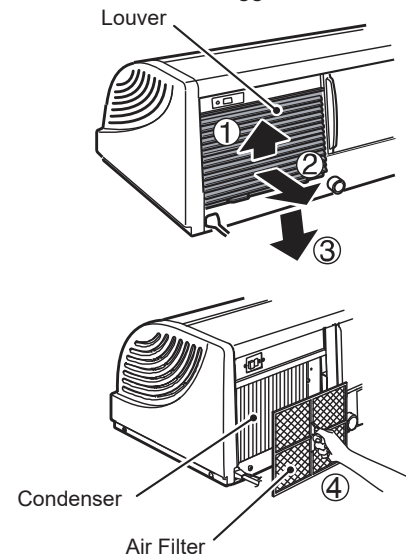
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- 3) Turn up the end of the joint(s).
- 4) Slowly pour the sanitizing solution into the drain water circuit from the joint(s).
- 5) Wait for 5 minutes, and turn down the end of the joint(s) to drain the solution.
- 6) Leave the drain water circuit to dry out.

4. AIR FILTER

A plastic mesh air filter removes dirt or dust from the air, and keeps the condenser from getting clogged. If the filter gets clogged, the showcase'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.

- 1) Hold the tabs located at the bottom of the louver, and lift them up to release the louver from the body.
- 2) Pull the louver toward you.
- 3) Pull out the louver downward.
- 4) Grasp the frame of the air filter, and pull it toward you.
- 5) Clean the air filter.
- 6) Refit the air filter and louver in the reverse order of the removal procedure.



5. CONDENSER

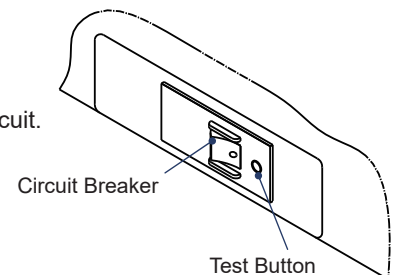
⚠ CAUTION

To prevent possible injury, do not touch the condenser fins with hands. Use a brush or vacuum cleaner to clean the condenser.

Check the condenser once a year, and clean if required by using a brush or vacuum cleaner. More frequent cleaning may be required depending on the location of the showcase.

6. CHECKING CIRCUIT BREAKER

Push the test button at least once a month to simulate an earth leakage on the load circuit.



IV. 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
 sales@hoshizaki.com.sg (Sales)
 serviceadmin@hoshizaki.com.sg (Technical support)

Hoshizaki Thailand
 TEL: +66 2 005 9980
 FAX: +66 2 516 2646
 info@hoshizaki.co.th
 Line: @hoshizakithailand
<https://www.facebook.com/HoshizakiThailand>

Hoshizaki Indonesia
 TEL: +62 21 2937 5551/2
 FAX: +62 21 2937 5553
 sales@hoshizaki.co.id (Sales)
 service@hoshizaki.co.id (Technical support)

Hoshizaki Vietnam
 TEL: +84 28 5417 3853
 sales@hoshizaki.com.vn (Sales)
 service@hoshizaki.com.vn (Technical support)

Hoshizaki Hong Kong
 TEL: +852 2866 2108
 FAX: +852 2866 2109

Hoshizaki Malaysia
 TEL: +603 5569 8023
 sales@hoshizaki.com.my

Western Refrigeration
 TEL: +91 22 69881200 (Sales enquiry)
 +91 7045017000 (Service toll free)
 sales@westernequipments.com

V. DISPOSAL

Comply with local regulations regarding disposal of this appliance and its refrigerant gas. When disposing of the showcase, contact an authorized Hoshizaki service company or a specialized waste disposal company.

SPECIFICATIONS

Model	HNC-120BE-L/R-BLH	HNC-120BE-L/R-BH
Power Supply	1 Phase 220-240V 50Hz 0.39kVA (1.63A)	1 Phase 220-240V 50Hz 0.39kVA (1.63A)
Electric Consumption	140 W	140 W
Pull Down Time (10°C) *	Approx. 30 min.	Approx. 30 min.
Saturation Temp *	Approx. 5°C	Approx. 5°C
Effective Capacity	42 L	42 L
Dimensions	1200mm(W) x 345mm(D) x 270mm(H)	1200mm(W) x 345mm(D) x 270mm(H)
Refrigerant	R600a	R600a
Weight	32kg (Gross: 44kg)	32kg (Gross: 44kg)
Ambient Temp	10 - 30°C	10 - 30°C
Voltage Range	Rated Voltage $\pm$ 6%	Rated Voltage $\pm$ 6%
A-weighted Sound Pressure Level	Below 70 dB	Below 70 dB

Model	HNC-150BE-L/R-BLH	HNC-150BE-L/R-BH
Power Supply	1 Phase 220-240V 50Hz 0.39kVA (1.63A)	1 Phase 220-240V 50Hz 0.39kVA (1.63A)
Electric Consumption	145 W	145 W
Pull Down Time (10°C) *	Approx. 30 min.	Approx. 30 min.
Saturation Temp *	Approx. 5°C	Approx. 5°C
Effective Capacity	57 L	57 L
Dimensions	1500mm(W) x 345mm(D) x 270mm(H)	1500mm(W) x 345mm(D) x 270mm(H)
Refrigerant	R600a	R600a
Weight	37kg (Gross: 52kg)	37kg (Gross: 52kg)
Ambient Temp	10 - 30°C	10 - 30°C
Voltage Range	Rated Voltage $\pm$ 6%	Rated Voltage $\pm$ 6%
A-weighted Sound Pressure Level	Below 70 dB	Below 70 dB

ENGLISH

Model	HNC-180BE-L/R-BLH	HNC-180BE-L/R-BH
Power Supply	1 Phase 220-240V 50Hz 0.39kVA (1.63A)	1 Phase 220-240V 50Hz 0.39kVA (1.63A)
Electric Consumption	150 W	150 W
Pull Down Time (10°C) *	Approx. 30 min.	Approx. 30 min.
Saturation Temp *	Approx. 5°C	Approx. 5°C
Effective Capacity	72 L	72 L
Dimensions	1800mm(W) x 345mm(D) x 270mm(H)	1800mm(W) x 345mm(D) x 270mm(H)
Refrigerant	R600a	R600a
Weight	42kg (Gross: 60kg)	42kg (Gross: 60kg)
Ambient Temp	10 - 30°C	10 - 30°C
Voltage Range	Rated Voltage $\pm$ 6%	Rated Voltage $\pm$ 6%
A-weighted Sound Pressure Level	Below 70 dB	Below 70 dB

Model	HNC-210BE-L/R-BLH	HNC-210BE-L/R-BH
Power Supply	1 Phase 220-240V 50Hz 0.39kVA (1.63A)	1 Phase 220-240V 50Hz 0.39kVA (1.63A)
Electric Consumption	155 W	155 W
Pull Down Time (10°C) *	Approx. 30 min.	Approx. 30 min.
Saturation Temp *	Approx. 5°C	Approx. 5°C
Effective Capacity	87 L	87 L
Dimensions	2100mm(W) x 345mm(D) x 270mm(H)	2100mm(W) x 345mm(D) x 270mm(H)
Refrigerant	R600a	R600a
Weight	47kg (Gross: 68kg)	47kg (Gross: 68kg)
Ambient Temp	10 - 30°C	10 - 30°C
Voltage Range	Rated Voltage $\pm$ 6%	Rated Voltage $\pm$ 6%
A-weighted Sound Pressure Level	Below 70 dB	Below 70 dB

* Measured 20 mm above the food mount (normal position) located at the interior bottom center