



Vertical Refrigerator Instruction Manual

HPM365/600/850/1100/1350
HSS600HC/850HC/1100HC/1350HC
BMH20HC/30HC/36HC/45HC

Please read this booklet carefully and keep it in a safe place for
your future reference.

Thank you for selecting a Huxford product. This appliance has been designed using the latest techniques and incorporates the best components. We hope that you enjoy its use and benefit from its performance. Please read this manual carefully and keep it in a safe place for future reference

IMPORTANT

In the event of a breakdown, please consult the re-seller from whom you purchased this refrigerator or authorized service agent.



	<p>CAUTION: RISK OF FIRE</p> <p>This merchandiser contains flammable gas within the insulation foam and must be recycled by a specialist according to all applicable local laws and regulations. For further information, please consult your local Council.</p>	
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The information within this booklet was correct at the time of printing.

Specifications and information may alter without notice



1. INSTALLATION

1.1 Safety information

All electrical work must be carried out by suitably qualified persons

When using any electrical appliance, safety precautions should always be observed.

- This appliance is for indoor use only.
- Do NOT use this appliance for other than its intended use. This product is intended for use as a beverage cooler. It is not suitable for the storage of foodstuffs.
- When used by, or near, young children or infirm persons, close supervision is necessary. Young children should be supervised at all times to ensure that they do not play with this appliance.
- Do NOT cover the front grille or block the rear air entry by placing object up against the cabinet.
- Ensure adequate ventilation.
- Do NOT probe any openings.
- Be careful not to touch any moving parts or hot surfaces.
- Regulations require that all electrical work be carried out by authorized persons. For your own safety and that of others please ensure this is done.
- Do NOT overload the power supply. Always ensure that the power supply is adequate for the electrical requirements specified on the rating label. The rating label is located inside the merchandiser on the right hand side wall. If in doubt, please consult a qualified electrician. Caution: Never use extension leads or multiple adaptors.
- If the mains supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified and skilled persons in order to avoid hazard. A skilled person is a person having the appropriate technical training and experience necessary to be aware of hazards to which he or she is exposed in performing a task and of measures necessary to minimize the danger to his or herself or other persons.
- Disconnect the mains power supply before attempting any cleaning, removal of any covers, or maintenance work.
- Do NOT store explosive substances, such as aerosol cans with flammable propellant, in this merchandiser.
- **WARNING:** Do not use mechanical devices or other means to accelerate the defrosting process. Defrosting is performed automatically.


- **WARNING:**  Do not damage the refrigeration circuit.
- **WARNING:** Do not use electrical appliances inside the storage compartment of this appliance.
- **WARNING:**  This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

1.2 Assembly

- Remove the appliance from the packaging and peel off any protective film from all surfaces.
- If the front panel is fitted to the cabinet, proceed with fitting the shelves. If the front panel is inside the cabinet, carefully remove and unwrap it. Four locating lugs are provided to hold the front panel to the front of the cabinet.
- Carefully position the front panel so that its mounting slots are in line with the locating lugs, then slide the front panel down securely over the lugs.
- Fit the shelf support clips onto the shelf support strips, making sure that the clips for each shelf are of the same height and that they are securely engaged on the support strip.
- Unwrap each shelf carefully, to prevent damaging their protective coating or surface finish.
- Position the shelves onto the clips as shown in following PIC.
- Ensure the door gaskets form a good seal with the front surface of the cabinet



1.3 Positioning the refrigerator

WARNING
 Do NOT overload the power supply. Always ensure that the power supply is adequate for the electrical requirements specified on the rating label and never use extension leads or multiple adaptors.

- Please position the cabinet carefully being careful not to bump it.
- The power supply flex exits the refrigerator from the rear, at the bottom right hand side for the BMH20 and from the left hand side for the BMH30, BMH36 and BMH45, as viewed from the front. For ease of access, the flex should be retrieved prior to positioning the refrigerator in its final location.
- The maximum recommended ambient temperature for this refrigerator is 30°C.
- To reduce energy consumption, it is preferable to avoid positioning of the refrigerator in direct sunlight.
- Allow adequate space for the door(s) to fully open.
- Ensure that this refrigerator is positioned on a level surface, so as to allow the door(s) to shut and seal correctly, as well as to allow proper drainage from the evaporator tray, to prevent any overflow.
- Do NOT overload the power supply. Always ensure that the power supply is adequate for the electrical requirements specified on the rating label. The rating label is located inside the refrigerator, on the right hand side wall. If in doubt, please consult a qualified electrician. **Caution:** Never use extension leads or multiple adaptors.

Note
 If the unit has not been stored or moved in an upright position, let it stand upright for approximately 12 hours before operation. If in doubt allow to stand.

CAUTION
 For your safety it is recommended that two people assist in the movement of this refrigerator.

IMPORTANT
 For your safety it is recommended that the front castors be locked at all times when this refrigerator is stationary, loaded with product and in operation.

2. Operation

Single-door and double-door refrigerators are designed to operate at a recommended ambient temperature of 42°C and as such, is categorized as a Climate Class 5 product. This information is recorded on the rating label, which can be found on the inside right hand wall of the cabinet.


Climate class	Temperature (°C)	Humidity (%RH)
5	40	40

Three-door refrigerator is designed to operate at a recommended ambient temperature of 30°C and as such, is categorized as a Climate Class 4 product. This information is recorded on the rating label, which can be found on the inside right hand wall of the cabinet.

Climate class	Temperature (°C)	Humidity (%RH)
4	30	55

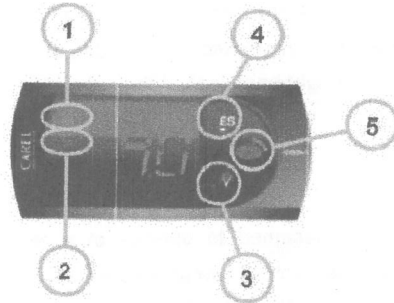
CAUTION
 Do NOT store any perishable food stuffs or dairy products inside a refrigerator set to "SAVING MODE" (non-dairy beverages only). To do so would break critical food safety laws and would be dangerous.

2.1 For HPM365/600/850/1100/1350
 HSS600HC/850HC/1100HC/1350HC

WARNING
 Once the mains flex is connected to a power supply, power will be delayed 3 minutes before the cabinet starts running!

Control Panel

The control panel is located below the door(s) on the front of the appliance.



1. Compressor Indicator; 2. Evaporator Fan Indicator; 3. Down/Light Button; 4. UP/ES Button; 5. Set Button

Switching on

- Close the door of the appliance.
- Connect the appliance to an appropriate mains power supply. Working mode

There are two different modes for the electronic thermostat, which are referred to as Standard Mode and Saving Mode.

- **Standard Mode:** the refrigerator is optimised for maximum performance and will maintain 2-5°C.
- **Saving Mode:** the refrigerator is optimised for energy saving. In Saving Mode the interior temperature is allowed to rise to maintain 7~11°C and the interior lights are switched off.

Switching Between Modes

When the appliance is powered up for the first time, the default mode is Standard Mode. To enter Saving Mode, simply press and hold the UP/ES keypad button for at least 3 seconds. The mode which is about to be entered is displayed as a preview. ES is displayed for Saving Mode and NOR is displayed for Standard Mode. Upon disconnection and subsequent re-connection to the mains power, the previously selected mode will be remembered and restored.

Switching the Interior Lights ON and OFF

As mentioned above, the lights are automatically turned off in "Saving Mode". To switch the interior lights on or off at any time in either Mode, simply press and hold the DOWN / LIGHT keypad button for at least 0.5 seconds. The light will be either powered on or off accordingly.

If the compressor light is flashing on the electronic display

The compressor is designed to have a minimum resting period of 6 minutes. If the electronics command the compressor to start, but it is in resting mode, then the compressor light will flash. This is normal and nothing to be concerned about.

Adjusting the temperature of Standard Mode

The appliance is set up to run without interference from the user. It is not recommended for the user to interfere with the complex electronic set up. However if the user wishes to change the temperature of the Standard Mode then it can be done by altering the ST parameter. ST is the lowest temperature that the user wishes the appliance to run at. The appliance will run at ST plus 2 degrees. For example if you wish to have an average temperature of 6 degrees inside the cabinet then you would select ST at a value of 4:

1. Press the SET keypad button for at least 3 seconds until "0" is displayed.
2. Press the UP / ES keypad button 22 times until "22" is displayed.
3. Press the SET keypad button and the display will change to "PS" 4. Press the UP / ES keypad button 7 times until "ST" is displayed.
5. "0" will appear on the display
6. Using the "Down/Light" or "Up / ES" button, select the ST minimum temperature value you prefer.
7. Press the "SET" keypad button once again will lock in the parameter change.

2.2 For BMH20HC/30HC/36HC/45HC Lighting

The cabinet interior lighting and illuminated advertising sign are factory set to operate automatically by the Energy Management System for maximum automated energy saving.

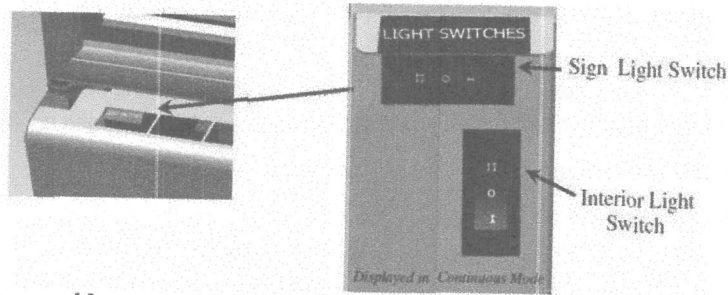
Manual Light Switches are also provided to change the lighting operation to suit special circumstances.

There are two switches, one for interior lighting and another for the sign giving separate. Switch Operation:

The cabinet interior lighting and illuminated advertising sign are factory set to operate automatically by the Energy Management System for maximum automated energy saving. I = Automatic (EMS controlled) (Factory Setting)

0 = Off

II = On continuously (Uses more energy/ higher running costs)



Energy Management System (CMS100)

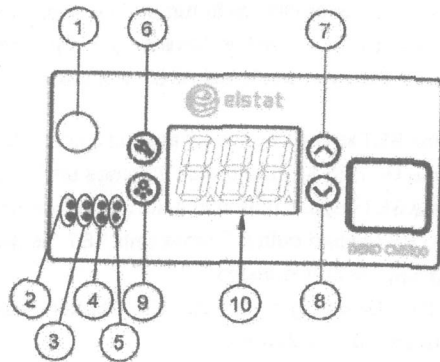


Figure 5

CMS100 Controller Front Facia			
1		Motion Sensor	Senses traffic motion in front of the refrigerator.
2		Compressor Indicator	The indicator is lit while the compressor is operational.
3		Evaporator Fan Indicator	While the evaporator fan is running at full speed the indicator is lit.
4		Perishable Mode Indicator	Indicates that the refrigerator is operating in Commissioning Code 1 (Perishable Mode).
5		Motion Detector Indicator	The indicator light will flash on detecting motion.
6		Set Button	Sets the current parameter.
7		Up Button	Selects the next parameter.

8		Down Button	Selects the previous parameter. Also used to cancel the 'Ht' and 'rSF' alarms.
9		Defrost Button	
10		3 Digit LED Display	Displays operation and error messages.

NOTE: Buttons 5, 6, 7/8 are used to cancel alarms and for technicians to set the CMS controller parameters to meet your operational requirements.

Temperature Adjustment

Energy Management System (EMS)

During normal operation of this merchandiser, the digital display of the EMS controller shows various information. The most common of which are shown below.

- Operating Mode:** The current internal temperature of the merchandiser is indicated (°C).
- Defrost Mode:** Indicates that the EMS controller has initiated the defrost mode to remove ice from the evaporator.
- Saving Mode:** Outside normal store opening hours. Lighting will be off.
- Frost Protection Mode:** The controller has entered the 'Frost Protection' mode due to the ambient temperature being too low (eg: below ~0°C) All cooling by the refrigeration system stops, but will resume with warmer ambient temperature. (eg: above ~0°C)
- Door(s) Open:** Displays that one or more doors are currently open.

Alarm displays

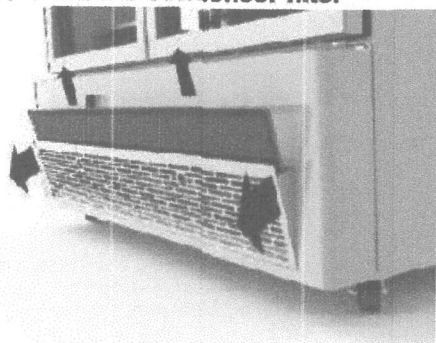
- High Temperature (condenser):** The temperature of the condenser is too high. - The condenser filter, or coil, may be blocked and requires cleaning.
- Door(s) Open:** Displays that one or more doors have been open for an extended period, an alarm will also sound. - Ensure the door(s) are properly closed.
- Refrigeration System Failure:** Excessive time has been required for the refrigeration system to reach the set temperature. - Press the 'Down' button to cancel the alarm and reset the refrigeration system.
- Probe Failure1:** The refrigerated compartment sensor probe has failed. - A service technician must be called to replace the sensor probe.
- Probe Failure2:** The condenser coil sensor probe has failed. - A service technician must be called to replace the sensor probe.

3. Cleaning, care and maintenance (For BMH20HC/30HC/36HC/45HC)

CAUTION: Isolate power before performing any maintenance or cleaning. Check that all vents are clean and clear of dust, dirt, lint, paper, plastic etc. that may cause an obstruction to proper ventilation.

It is of the utmost importance that the refrigeration unit condenser filter be kept clean of dust, dirt and lint. The refrigeration unit fan will continually draw dust and lint on to the condenser filter and collect to form a "blanket". This seriously restricts the passing of air for adequate ventilation and cooling of the refrigeration unit.

To clean the condenser filter



- a. Pull grill forward using the finger holes provided;
- b. Lift filter of the grill
- c. Brush or vacuum dust and dirt off the filter;
- d. Wash the filter with clean water.

Detergent and warm water may be required to clean grease build up from cooking oil etc.

- e. Shake and wipe filter so it is drip dry;
- f. Refit filter. (Reverse to steps a & b)

We can not recommend how often the condenser should be cleaned as this is dependent upon particular location and surrounding conditions. Clean the condenser as often as necessary to keep the air passage clear.

Door gaskets will remain in best condition if washed weekly with mild soap and water followed by a fresh water rinse.

Keep inside of the cabinet clean by washing weekly. Do not use abrasive pads to clean cabinet finish inside or out.

If the appliance is to be left inactive for long period, unplug the appliance, empty the shelves, clean thoroughly and prop the door open to prevent odours

4. Technical specifications

Body Construction	
Exterior&Interior	Epoxy coated galvanized steel
Insulation	50mm thick, injected, polyurethane foam
Foaming agent	Cyclopentane

Refrigeration System	
Type	Removable System
Airflow	Induced airflow condenser and evaporator coils
Refrigerant	R290

Electrical	
Supply	For HPM600/850/1100/1350, HSS600HC/850HC/1100HC/1350HC 155~275 Volt ac.(47~53Hz.) Single phase Once the mains flex is connected to a power supply, power will be delayed 3 minutes before the cabinet starts running! For other cabinets (Item No.) 220~240 Volt ac.(50Hz.) Single phase

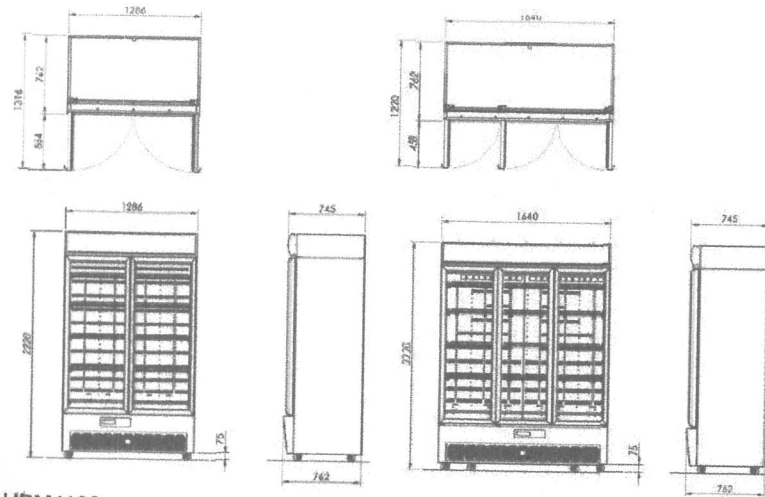
Lighting	Internal LED(s)	Sign LED
HPM365	1X9 Watt(900mm)	1 X 7Watt(670mm)
HPM600 BMH20HC HSS600HC	1 X 24Watt(1350mm)	1 X 7Watt(670mm)
HPM850 BMH30HC HSS850HC		1 X 12Watt(900mm)
HPM1100 BMH36HC HSS1100HC		1 X 13Watt(1200mm)
HPM1350 BMH45HC HSS1350HC	18 Watt +13Watt (1350mm)	1 X 17Watt(1500mm)

Door(s)
Self-closing, silver anodized aluminium frame glass door(s) with black painted.
Double Low-E coated panes, argon filled, toughened safety glass.
Replaceable, magnetic rubber gasket.

Product dimensions.

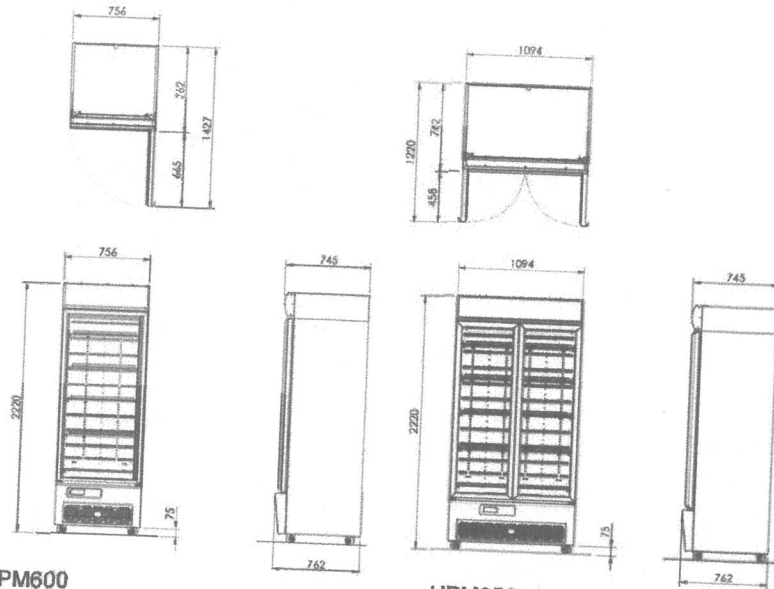
Models	Width	Height	Depth	Weight	Gross volume
HPM365	756mm	1700mm	740mm	~135Kg	336L
HPM600 BMH20HC HSS600HC	756mm	2220mm	740mm 762mm	~164Kg	594L
HPM850 BMH30HC HSS850HC	1094mm	2220mm	740mm 762mm	~214Kg	894L
HPM1100 BMH36HC HSS1100HC	1286mm	2220mm	740mm 762mm	~234Kg	1070L
HPM1350 BMH45HC HSS1350HC	1640mm	2220mm	740mm 762mm	~254Kg	1383L

Shelves
Adjust height, white plastic coated, steel wire shelves. 10mm shelf wire spacings.



HPM1100
BMH36HC
HSS1100HC

HPM1350
BMH45HC
HSS1350HC



HPM600
BMH20HC
HSS600HC

HPM850
BMH30HC
HSS850HC

5. Disposal

This appliance contains flammable and explosive gas within its sealed system and its insulation foam. This product must ONLY be disposed of and recycled by a professional waste handling organisation that is qualified and registered to recycle refrigeration appliances.

If in any doubt, please consult your Local Authority, contact authorized service agent or contact the reseller from whom you purchased the appliance.



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