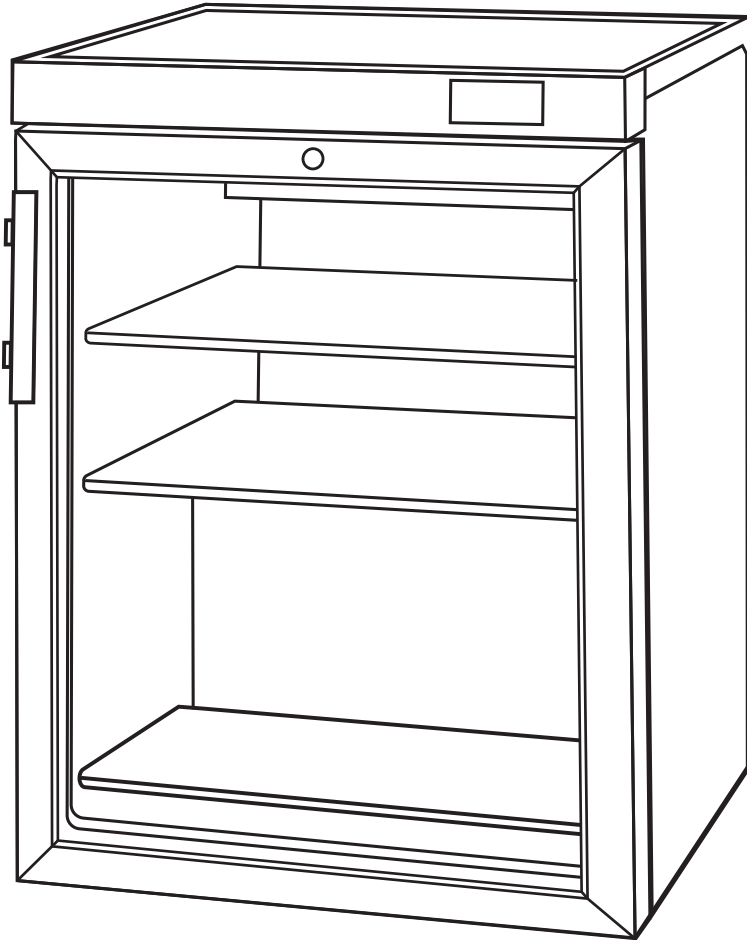




**USER MANUAL  
AND PRODUCT  
SPECIFICATIONS**

ICE COLD ANYWHERE



**SM-220**

**99L UNDER-COUNTER  
BEVERAGE COOLER**



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## THANK YOU FOR PURCHASING THE SNOMASTER SM-220, 99L UNDER-COUNTER BEVERAGE COOLER

### • WARRANTY, SERVICE AND SUPPORT •

This product is warranted for **5 years on the compressor, 3 years on the unit and 1 year on all parts not listed from the date of purchase**. Warranty does not cover products that have not been used in accordance with the user guide or are outside the warranty terms and conditions, which can be found at the following url:

**<https://snomaster.co.za/warranty/>**

#### WARRANTY REGISTRATION

Register your SnoMaster SM-220, 99L Under-Counter Beverage Cooler now for warranty, and allow us to provide you with the best possible after sales service:

- Please log onto our website at **[www.snomaster.co.za](http://www.snomaster.co.za)**
- Click on the 'Warranty' tab.
- Enter warranty information and upload proof of purchase at the bottom of the page.

#### SERVICE AND SUPPORT

Should an instance arrive where you require assistance, contact our service team:

- Please log onto our website at **[www.snomaster.co.za](http://www.snomaster.co.za)**
- Click on the 'Support' tab.
- Click 'Find a Repair Agent Near You' and enter your region.
- Alternatively contact us via email: **[info@snomaster.co.za](mailto:info@snomaster.co.za)** or contact us on **+27 11 392 5315**.

# IMPORTANT SAFETY INFORMATION

## SM-220, 99L UNDER-COUNTER BEVERAGE COOLER

**This manual contains important information including safety, installation, maintenance and warranty instructions of the SnoMaster SM-220, 99L Under-Counter Beverage Cooler. Please read this manual carefully before use and follow all safety information and instructions. It is recommended to keep this manual for easy reference so that you are familiar with the operation and maintenance of your appliance.**

Before using this appliance, ensure it is correctly positioned and installed as outlined in this manual. Follow these basic precautions to prevent the risk of fire, electrical shock, or injury:

- This appliance is designed for domestic or commercial indoor use only and is exclusively intended for storing beverages and foodstuffs.
- Ensure the incline angle of the appliance is not more than 45° during transportation or operation.
- Before using your appliance for the first time, you should wait about 12 hours after positioning it in place.
- Ensure sufficient personnel are available to move and install the appliance to prevent damage or injuries.
- The appliance needs to be levelled for optimal operation. You can adjust the appliance feet to level it +/- 10mm.
- Ensure the power cord is easily accessible after positioning the appliance.
- Avoid connecting or disconnecting the electric plug with wet hands.
- To disconnect the appliance, grip the plug and pull it from the wall outlet. Never pull out the plug by the cord.
- It is advisable to use a dedicated power source and avoid using extension cords.
- Please unplug the appliance or disconnect the power before performing any cleaning, maintenance, or servicing.
- If the appliance power supply cord is damaged, it must be replaced by SnoMaster, its approved agent, or a similarly qualified person to prevent any hazard.

- It is recommended that the circuit breaker size should be no more than 20 amps.
  - This appliance operates on a single-phase voltage of 230V/50Hz, to avoid electrical surges, it is advised to use a surge protector plug.
  - Cleaning and maintenance should be supervised by adults, especially if children are involved.
  - The key to the appliance door should be kept out of the reach of children.
  - The appliance should be placed on a flat surface and should be completely unobstructed. Ensure to leave 150mm space around the appliance to ensure proper ventilation for the appliance. Place the appliance away from direct sunlight and heat sources (stove, heater, radiator, etc.).
  - Unless specifically recommended in this manual, do not attempt to repair or replace any part of the appliance. All other servicing should be referred to a qualified technician.
  - Never clean appliance parts with flammable fluids as they may create a fire hazard or explosion. Also, avoid storing or using petroleum or other flammable vapours and liquids near this appliance.
  - Avoid solvent-based cleaning detergents or abrasives on the interior or exterior as they may damage or discolour it.
- **This appliance contains CYCLOPENTANE and R600a gas, which is FLAMMABLE and may cause a fire or an explosion.**
- 



## WHEN DISPOSING THE APPLIANCE

### Please observe the following instructions:

- Always ensure the appliance is out of reach of children. Before disposing of it, damage the body and remove the door to prevent children from climbing inside.
- Follow the instructions of your local regulations when disposing.

# PRODUCT FEATURES

**WHITE CABINET WITH TEMPERED GLASS DOOR | REVERSIBLE DOOR | DOOR LOCK | DOOR OPEN ALARM | EXTERNAL DIGITAL THERMOSTAT | FAN ASSISTED COOLING | POWDER COATED SHELVES | AUTOMATIC DEFROSTING | 2 FRONT ADJUSTABLE FEET AND 2 REAR ROLLERS**

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## SPECIFICATIONS:

- **Dimensions (mm) Unit:** (H) 835 (W) 600 (D) 673
  - **Storage Volume:** 99L
  - **Temperature Zone:** 2°C to 8°C
  - **Net Weight:** 37Kg
  - **Voltage:** 220-240V/50HZ
  - **Dimensions (mm) Packaged:** (H) 880 (W) 640 (D) 675
  - **Rated Current:** 0.6A
  - **Suggested Applications:** Office, Apartment, Kitchen, B&B, Hotel, Restaurant, Home Bar, Pub
  - **Design Criteria:** Engineered for the African Climate
- 

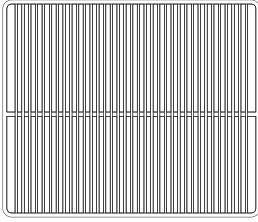
# INSTALLATION INSTRUCTIONS



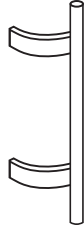
Before installing your new appliance, please read all safety instructions in this manual and follow the installation instructions below:

- Remove the appliance from the box, ensure all packaging materials, stickers and films are removed from the product. Clean the appliance's surfaces with a mild detergent and a damp cloth before initial use.
- Clean the inner liner, ice basket, water storage tank, water box ice pusher and evaporator with a mild detergent and damp cloth before initial use.
- Ensure the appliance is placed on a level, sturdy surface.
- Caution: Installing the appliance on carpeting may lead to discolouration due to heat emission from the compressor.
- Ensure adequate air circulation for the appliance by maintain a clearance of at least 150mm on all sides.

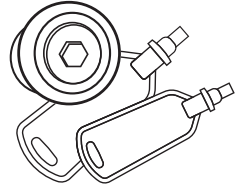
## ACCESSORIES INCLUDED



3 x DISPLAY  
SHELF



1 x DOOR  
HANDLE



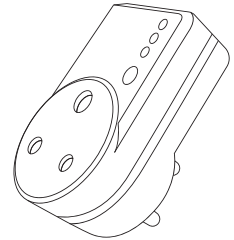
1 x DOOR  
LOCK & KEYS

---

## SURGE PROTECTOR PLUG

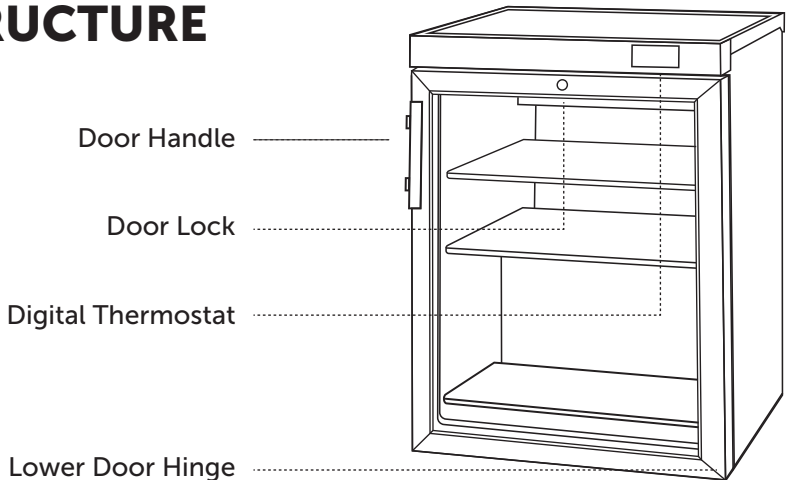
TO AVOID ELECTRICAL SURGES, IT IS ADVISED TO USE A SURGE PROTECTOR PLUG.

**Please note that this must be purchased separately and does not come with the unit**



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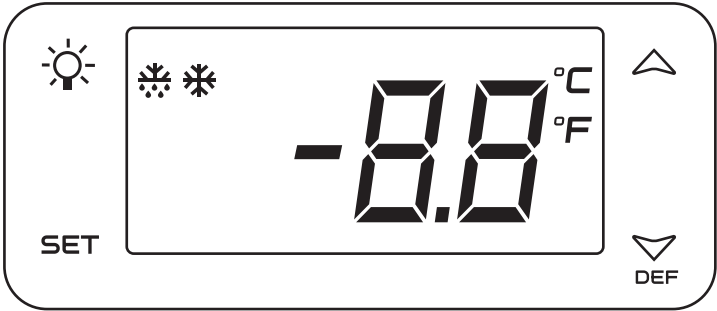
## STRUCTURE







# OPERATION PROCEDURE


## CONTROL PANEL




**SET** To display target set point, in programming mode it selects a parameter or confirms an operation.


 (UP) In programming mode it browses the parameter codes or increases the displayed value.


 (DOWN) In programming mode it browses the parameter codes or decreases the displayed value. Press this button for longer than 2 sec to start a manual defrost.

 (LIG) To activate the light output.

## KEY COMBINATIONS

 To lock or unlock the digital display panel.

**SET**  
+  To enter in programming mode.

**SET**  
+  To return to room temperature display.

# LED DISPLAY PANEL LEGEND

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**Mode: On** - Compressor Enabled  
**Mode: Flashing** - Anti-short Cycle Delay Enabled

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**Mode: On** - Defrost In Progress

---



**Mode: On** - Measurement Unit  
**Mode: Flashing** - Programming Mode

---



**Mode: On** - Measurement Unit  
**Mode: Flashing** - Programming Mode

---



## HOW TO SET THE SET POINT

- Short press the SET button and the set point will be displayed;
- Short press the SET button again or wait for 5 sec to return to current visualization

## HOW TO CHANGE THE SETTINGS

- Long press the SET button for more than 2 sec to change the Settings as follows:
- The value of the set point will be displayed and the “°C” or “°F” LED light will start blinking;
- To change the Set value press the UP or DOWN arrows.
- To memorise the new set point value press the SET button again or wait for 10 sec.

## HOW TO START A MANUAL DEFROST

- Long press the DEF key  for more than 2 sec and a manual defrost will start. The  LED indicator will continue flashing until the defrost cycle ends.

## HOW TO A PARAMETER VALUE

- To change any parameter value, operate as follows:
- Enter the Programming mode by pressing the **SET+DOWN** buttons for 3 sec (“° C” or “° F” LED starts blinking).
- Select the required parameter by pressing **UP or DOWN**. Press the **SET** button to display its value.
- Press the **UP or DOWN** button to change its value.
- Long Press the **SET** button for 2sec to store the new value and move to the following parameter.
- To exit: Press **SET+ UP** or wait for 10 sec without pressing any key.
- NOTE: The set value is stored immediately after setting. It will return to the normal temperature display after 10sec without pressing any buttons and exit the programming mode at the same time.

## TO LOCK THE KEYBOARD

- Long press both the **UP and DOWN** buttons simultaneously for more than 3 sec .
- The “OF” message will be displayed and the display will be locked

## TO UNLOCK THE KEYBOARD

- Long press both **UP and DOWN** buttons simultaneously for more than 3 sec until the “on” message is displayed and the display will be unlocked.

---

## ALARM SIGNALLING

MESSAGE	CAUSE	OUTPUT
P1	Room Probe Failure	Compressor Output According To Cy And Cn
HA	Maximum Temperature Alarm	Outputs Unchanged
LA	Minimum Temperature Alarm	Outputs Unchanged
dA	Door Open	Outputs Unchanged

## ALARM RECOVERY

Probe alarms "P1" start a few seconds after the fault in the related probe; they automatically stop a few seconds after the probe restarts normal operation. Check connections before replacing the probe. Temperature alarms "HA", "LA", automatically stop as soon as the temperature returns to normal values.

**NOTE: When any one of the alarm signaling occurs, press any button to cancel the alarm sound, the corresponding message of the alarm signaling will continue to display until the fault is removed.**

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## DEFAULT SETTING VALUES

NO.	CODE	CODE NAME	DESCRIPTION	RANGE	DEFAULT GLASS DOOR
1	SP	Set point	Cut-out temperature	-55 to 99 °C; -67 to 99 °F	2
2	dF	Differential	Differential for set point. Compressor is Cut in when the temperature reaches $\geq$ the set point (SP)+differential (dF). Compressor is Cut out when the temperature reaches $\leq$ the set point(SP).	0.1 to 25°C; 1 to 45°F	3
3	LL	Minimum set point	Set the minimum value for the set point.	-55°C to SP; -67°F to SP	2
4	UL	Maximum set point	Set the maximum value for the set point.	SP to 99°C; SP to 99°F	8
5	CA	Probe calibration	Allow to adjust possible offset of the probe.	-10 to 10°C; -17 to 17 °F	-2
6	d1	Outputs activation delay at start up	This function is enabled at the initial start up of the instrument and inhibits any output activation for the period of time set in the parameter.	0 to 99min	0

# DEFAULT SETTING VALUES

NO.	CODE	CODE NAME	DESCRIPTION	RANGE	DEFAULT GLASS DOOR
7	d2	Anti-short cycle delay	Minimum interval between the compressor stop and the following restart.	0 to 50min	10
8	Cy	Compressor ON time with faulty probe	Time during which the compressor is active in case of faulty thermostat probe.	0 to 99min	15
9	Cn	Compressor OFF time with faulty probe	Time during which the compressor is OFF in case of faulty thermostat probe.	0 to 99min	30
10	CF	Measurement unit	°C =Celsius; °F =Fahrenheit. WARNING: When the measurement unit is changed the SET point SP and the values of the parameters dF,LL,UL,AH,AL etc have to be checked and modified if necessary.	°C;°F	°C
11	rE	Resolution	Only for °C, dE= decimal between -9.9 and 9.9°C; in= integer	dE;in	dE
12	d3	Display delay	When the temperature increases, the display is updated of 1 °C/1°F after this time	0 to 15min	3
13	d4	Interval between defrost cycles	Determines the time interval between two consecutives defrost cycles.	0 to 99hours	6
14	d5	Maximum length for defrost	Set the maximum length for defrost, 0 means no defrost	0 to 99hours	20
15	dt	Display during defrost	rt= real temperature; it= start defrost temperature;SP= set point SP; dF= label dF.	rt;it;SP;dF	it
16	AH	Maximum temperature alarm	When this temperature is reached, the alarm is enabled after the "A1" delay time.	AL to 99°C; AL to 99 °F	15

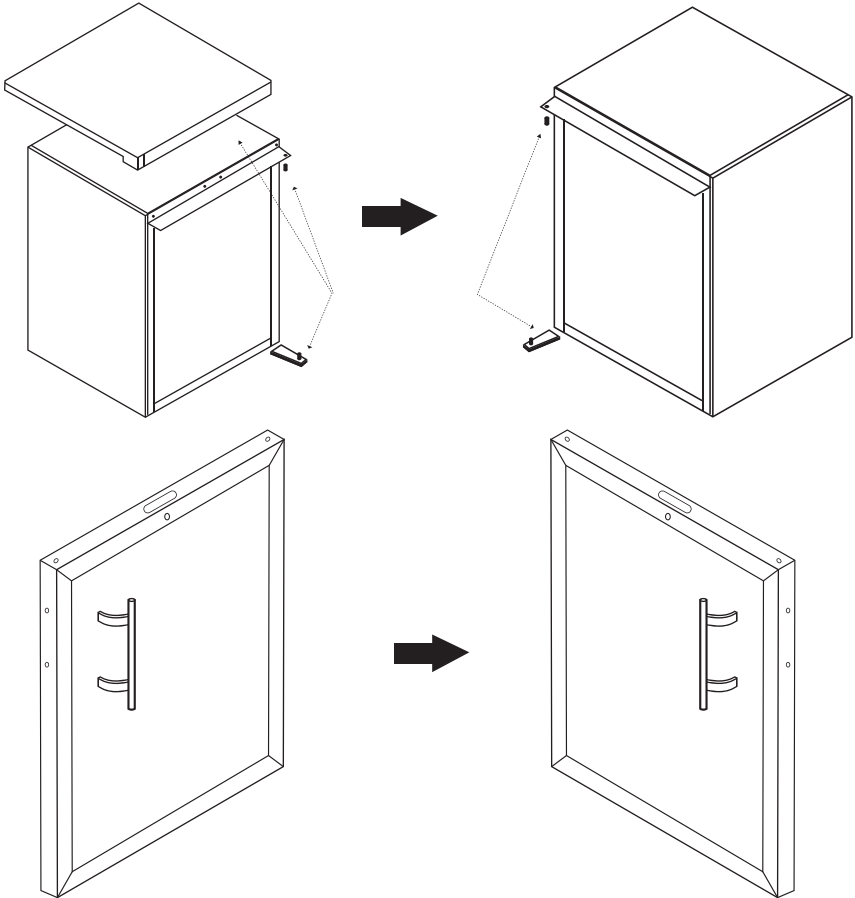
# DEFAULT SETTING VALUES

NO.	CODE	CODE NAME	DESCRIPTION	RANGE	DEFAULT GLASS DOOR
17	AL	Minimum temperature alarm	When this temperature is reached, the alarm is enabled after the "A1" delay time.	-55°C to AH; -67°F to AH	-2
18	A1	Temperature alarm delay	Time interval between the detection of an alarm condition and alarm signalling.	0 to 99min	30
19	A2	Exclusion of temperature alarm at startup	Time interval between the detection of the temperature alarm condition after instrument power on and alarm signalling.	0 to 99min	99
20	A3	Door open alarm	oP=activated by closing the contact; cL=activated by opening the contact.	oP;cL	CL
21	A4	Door open alarm delay	The delay to activate the door open alarm.	0 to 99min	1

# HOW TO REVERSE DOOR

The appliance door can be changed from right hinged to left hinged, or vica versa as follows:

- 1 Remove the top cover of the appliance and install the upper right hinge shaft and lower right hinge to the left position
  - 2 Move the door handle from the left side of the door frame to the right side of the door frame.
  - 3 Install the top cover in its original position.
- 



# MAINTENANCE

## INTERNAL CLEANING

- Remove accessories from the appliance. Accessories can be cleaned separately with soap and water. Do not put them in the dishwasher.
- Do not use any abrasive materials or detergents.
- After washing, rinse with clean water and dry carefully.
- When you are done cleaning the appliance, reconnect the plug with dry hands.
- For extended periods where the appliance will not be in use, ensure the interior is completely dry and all beverages or foodstuffs have been removed and leave the door open to avoid any odors or mildew.

## EXTERNAL CLEANING

- DO NOT POUR WATER OVER THE APPLIANCE.
- Wash the exterior of the unit with warm soapy water.
- PLEASE DO NOT use abrasive materials or detergents.
- Be careful of sharp edges under the appliance.
- Once or twice a year, dust the compressor at the back with a brush or a vacuum cleaner, as over time it accumulates dust and that may affect the performance of the appliance and cause increased energy consumption.
- Do not use any sharp objects for cleaning.
- Do not wash the appliance with direct or high-pressure water jets.

## FOOD STORAGE

- The appliance compartment is suitable for short-term storage of fresh food. The temperature inside varies depending on the amount of food stored.
- To maintain cooling efficiency and save energy, we recommend less frequent opening and closing of the appliance door.
- Wrap or cover food where possible.
- Do NOT overload the appliance and ensure to keep enough space around items for cold air flow.
- Do not block any ventilation openings.
- The maximum recommended load per shelf is 25kg.
- Foodstuffs should be put into containers before placing inside the appliance or on the shelves.
- Bottles that contain a high percentage of alcohol must be sealed and placed vertically in the appliance.



# DEFROSTING PROCEDURE

- Automatic Defrosting using the automatic water evaporation.
- Automatic Defrost: The appliance will automatically run defrost cycles.
- Note: The cycle starts from the time the appliance is initially powered on.

## To manually defrost the appliance:

- Press and hold the DEFROST button for 5 seconds.
- The defrost cycle will start immediately and the Defrost LED illuminates.

**Note: Starting a manual defrost also resets the automatic defrost timer. The next automatic defrost will start according to the set parameter after the manual defrost has finished.**

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## ENERGY SAVING TIPS

- Place the fridge in the coolest area of the room, away from any heat-producing appliances and out of direct sunlight.
- Do NOT overload the fridges as it forces the compressor to run longer.
- Do not set the thermostat on excessive cold temperatures.

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## TROUBLESHOOTING

Should you experience any issues with your appliance and the below troubleshooting tips do not resolve the fault experienced, kindly contact SnoMaster Service Department or your nearest accredited Service Agent:

PROBLEM	PROBLEM POSSIBLE CAUSE / MEASURE
The appliance is not working	<ul style="list-style-type: none"><li>• Check the appliance is plugged in correctly and switched on.</li><li>• Check that the plug or lead is not damaged.</li><li>• Check the power supply.</li><li>• Internal wiring fault and needs to be repaired.</li></ul>
The appliance turns on, however, the temperature is too high/low	<ul style="list-style-type: none"><li>• Ice might have formed on the evaporator. Remove all items from the appliance and then defrost the appliance.</li><li>• Condenser is blocked with dust. Clean the condenser thoroughly using a soft brush or vacuum cleaner.</li><li>• Check that the door is closing properly and that the seals or gaskets are not damaged</li></ul>

# TROUBLESHOOTING

<b>PROBLEM</b>	<b>PROBLEM POSSIBLE CAUSE / MEASURE</b>
The appliance turns on, however, the temperature is too high/low	<ul style="list-style-type: none"><li>• The ambient temperature might be too high, try moving the appliance to a cooler part of the room away from any heat sources, ensuring there is sufficient airflow to the condenser.</li><li>• Overstocking the appliance may cause stifling, remove excessive beverages or foodstuffs to allow for adequate airflow.</li></ul>
The appliance is leaking water	<ul style="list-style-type: none"><li>• Ensure that the appliance is level (you can adjust the feet the at the front of the appliance).</li><li>• Ensure that the discharge outlet is not blocked.</li><li>• Check the water container at the back of the appliance and ensure it is not damaged.</li></ul>



**ICE COLD ANYWHERE**

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