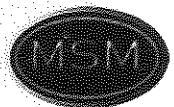


# OPERATION INSTRUCTION REFRIGERATOR COUNTER

Please read this user manual before using this product.

MSM EQUIPMENT MANUFACTURER SDN.BHD(287548-X)





Distinctive design & solid appearance



Energy efficient system & environmentally safe refrigerant



Quiet operating system & easy maintenance



Powerful & consistent cooling performance

## HIGHLIGHT AND FEATURES

### CREATION : QUALITY ASSURANCE

- High quality austenitic stainless steel
- Adjustable PVC coated steel shelves
- Solid magnetic gaskets for tight seal
- Environment safe HCFC refrigerant
- Optimum size for space constraints kitchen
- Complies to global safety standards and regulation

### ENERGY SAVING SYSTEM : ONE TIME INVESTMENT

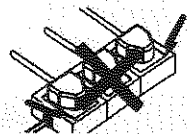
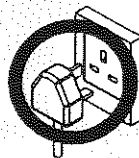
- Effective defrost system
- Excellent cooling performance that guarantees cost saving with long term usage
- Hi-low temperature and defrost alarm
- Easy to plug-in 13 amp power supply (240V/50Hz/1 phase)
- High density PU for the perfect insulation

### ASSURANCE : HYGIENE AND SAFETY

- Complies with global sanitary and food grade standards
- Ensure food freshness and avoid contamination

## Please check your local electric rating

- Plug into exclusive power socket
- Don't plug into a multi-socket



- Make sure to read and follow this manual before you use the product.

# CONTENTS

## Understanding And Preparation

- Part Identification .....
- How to ground .....
- General cautions for safety .....

## How To Use

- Installation Of Refrigerator .....
- Temperature Control .....

## References

- Storage of Food Stuff.....
- Precaution Measure For User .....
- Cleaning and Maintenance .....
- Troubleshooting Tips Before You Call For Service .....
- Size of product .....

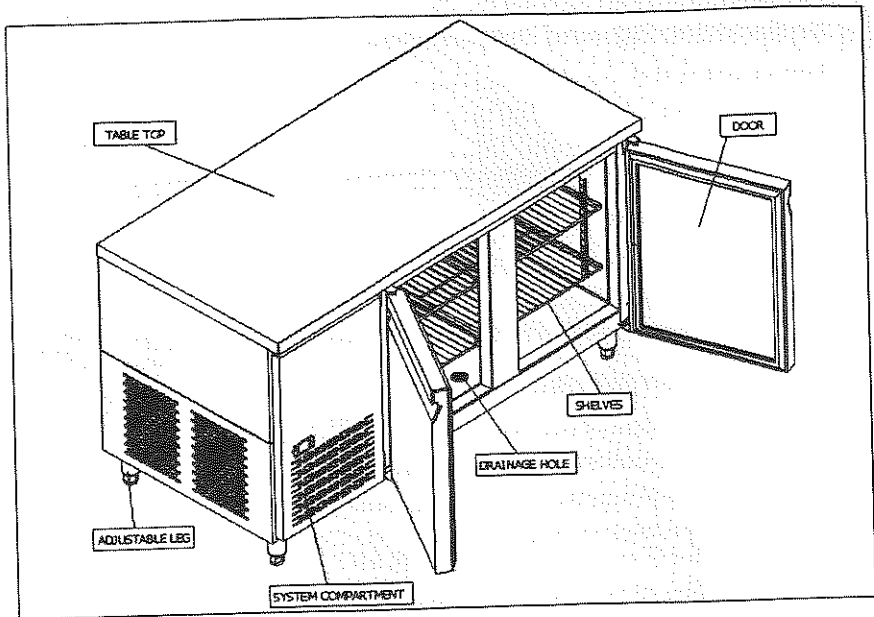
### IMPORTANT INFO

- The temperature inside the refrigerator depends on the frequency of door opening and closing, volume of food stored and the circumstance under which the product is installed.
- Set the temperature control at low if food in the refrigerator is a little.
- After a power outage or after the power cord is reconnected, the temperature previously selected will automatically be displayed.
- Don't cool or freeze water or meat stock in the product as it may change other sorts of food in it. Use a refrigerator for meat stock to cool or freeze it.

### NOTICE

- In case that ambient temperature of the product is below 10°C (50°F), food in refrigerator may be frozen.
- Set the temperature control according to the conditions of the ambient temperature.
- Don't touch the vessels or food in refrigerator with a wet hand. Your hand may be frost-bitten.
- Don't keep drugs, academic materials, herbal tonics or medicinal herbs in the product. The company will not be responsible for damages product stoned. This will be liable by the user.

## PART IDENTIFICATION

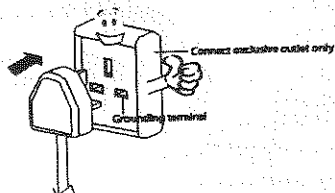


- The door quality depends on the model specification.

## HOW TO GROUND









Connect the ground wire to prevent problems such as power leakage or electric shock.

- Power outlet for the product must be grounded.
- Never use the product for other purposes except for storing food.
- Only product user are allowed to handle the product
- For safety measure, do not let children play with the product. If the door is closed and trapped, it may be hazardous and possible of suffocation.



# GENERAL CAUTIONS FOR SAFETY

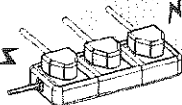
- Proper use of the product can prevent danger or physical loss, please observe general cautions to use it safely.

 <p>A person maybe seriously injured or fatal accident may happen.</p>	 <p>The sign represents NO</p>
 <p>A person may be wounded or suffer from physical loss.</p>	 <p>The sign represents NO DISSAEMBLING</p>
 <p>The sign represents the protective grounding to prevent any electric shock.</p>	 <p>The sign represents NO TOUCHING allowed</p>
	 <p>You must unplug the power cord from the outlet.</p>
	 <p>Please take note and observe</p>

## Warning

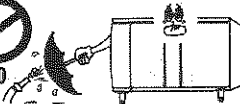
Don't overload an electrical outlet with several appliances or extension cords.

- Electrical overheating and fire may occur.



Don't spray water directly inside or outside of refrigerator

- Fire or electric shock may occur.



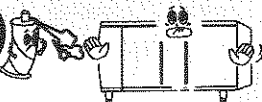
Don't touch an electric plug, electrical component and operating part located to the left side of the refrigerator with a wet hand

- You may suffer from electrical shock or your hand may be severely burnt.



Don't spray flammable and combustible materials around the product.

- An explosion or fire may occur.



Don't let children sit on or go in the product. Don't the shelves to reduce of the possibilities of this happening.

- Any accident happen may be fatal.





## Warning

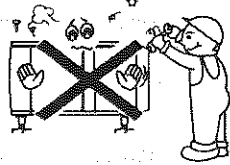
Don't keep volatile and flammable material in the product.

- If benzene, thinner, alcohol, ether, LP gas, and medicines may cause chemical reaction.



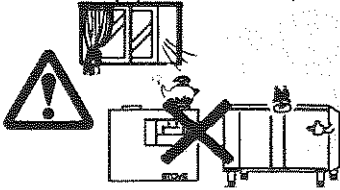
Never dismantle or fix any technical part without professional assistant. Especially, don't let children play, control or operate it.

- The wrong operation may cause fire, electric shock or damage.



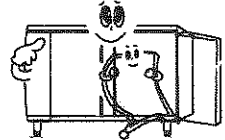
If gas leaks you should not touch the product and its plug, quickly ventilate the room where the product is located.

- There is a real fire risk and burn risk once tiny spark bursts into open flame.

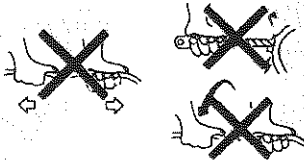


Remove the doors and gasket when discarding the product.

- Especially, don't let children play inside the product. If the door of the product closes they may suffocate.
- Please contact the place where you purchased the product or a consumer service center for additional information.

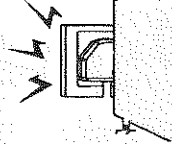


Don't break, modify, and bend with force, stretch or twist the electric cord: If the cord is damaged, fire or electric shock may occur.



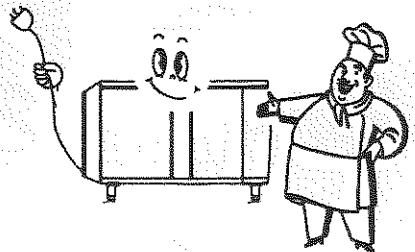
Make sure that an electric plug is not pressed by the rear side of the product. Put it where it is accessible to install and remove the plug.

- If the electric plug is damaged, a fire caused by overheating may occur.



Remember to unplug the power cord when thunder and lightning occur and when you don't use for a long time.

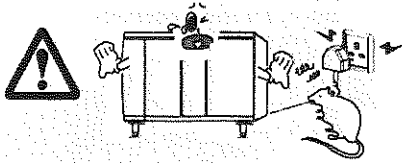
- Even though you don't use the product, it may be overheated if the power cords remains plugged. There is also a fire or electric risk.
- The appliance must be positioned where the plug is accessible.



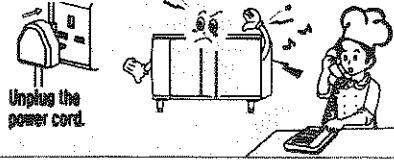


## Caution

Install the product where rodents and pest are not present: If they gnaw the wire, a fire may occur.

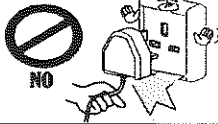


If you detect abnormal conditions (strange sound, smell and smoke) unplug the power cord immediately, and then contact the appointed consumer service center.



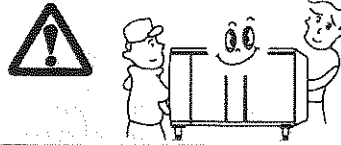
When disconnecting the power cord, hold and remove the plug, not the cord itself.

- Pulling on the cord can damage — the cord and may result in fire or electric shock.



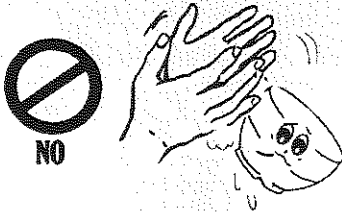
As the product is heavy, several people should move it together.

- Don't lay it while carrying.



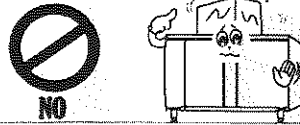
Don't touch food or containers in the refrigerator with wet hands

- Your hands may be frostbitten.



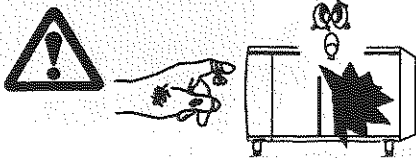
Don't put the bowl filled with water, drugs and material metal around the system compartment.

- There is an electric shock, fire and burst risk or you may be hurt. The lifespan of the product may be reduced. Its cooling functions may weaken. It may result in malfunction.



Use the knob/handle when closing the refrigerator door.

- If you close the door with other parts, your finger may be hurt



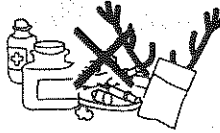
Don't pack the refrigerator with too much food

- If the food spills while opening the door, you may be scalded. Cooling efficiency would be decreased accordingly.

 **Caution**

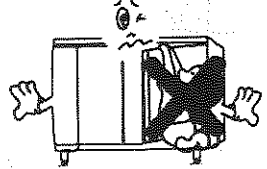
Keep drugs, reagents, academic materials, herbs tonics and medicinal herbs

- If things which require strict temperature control are put in the product, they may spoil or their unexpected reaction may result in a hazard.
- The company is not responsible for drugs, academic materials, reagents and herbal tonics spoiled for using the product.



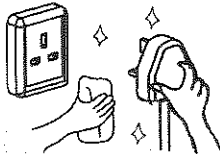
Don't cling to the door or climb to the upper part of the product. It is very dangerous:

- The product may fall down or you may be hurt.
- The company doesn't compensate according to the Consumer Protection Laws for the damages or losses which have occurred owing to unstable action



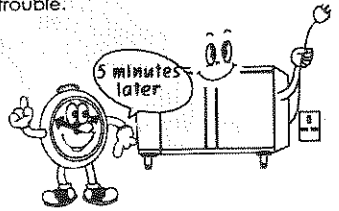
Make sure that plug pins are not wet with water or dirt stuck around the pins. Insert the plug fully into outlet not to be shaken

- If the dirt or foreign substances are stuck to the pins or the plug connected unstably, a fire may occur.

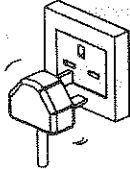


If you want to reconnect the power plug after have pulled it off, replug it at least in 5 minutes.

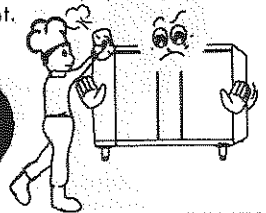
- If a cooler works too hard, it may result in a trouble.



Don't plug the power plug if the hole of outlet too big. It may result in an electric shock or fire.

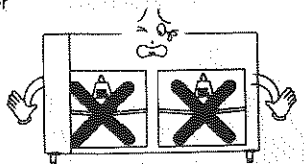


Don't put your hands into any opening of the system compartment.



Do not leave too much food on the shelf of the cool chamber

- Maximum carrying capacity of the shelf is below 30kg.
- The shelf might be bent is the load is over 30kg.

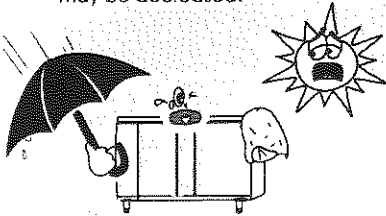




# Installation of Refrigerator

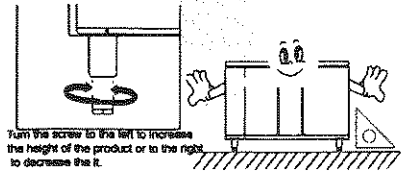
Install the product indoors

- It is indoor use only. If it is installed outdoors, the product may be damaged or its cooling efficiency may be decreased.



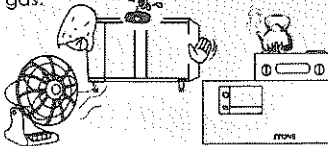
Install the product on firm and even floor surface.

- Unstable installation may result in vibration and noise of the product. If the floor where the product supposed to be install is not flat, please put as support.
- Fasten product by turning the height control screws of bullet feet to the left.

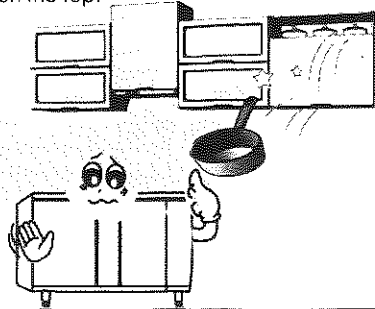


Avoid installing near the place where there is much corrosive gas.

- If the ambient temperature is high, cooling efficiency will be reduced and electric consumption will be increased
- The color of its appearance may be changed or its lifespan may be reduced by briquette or corrosive gas.

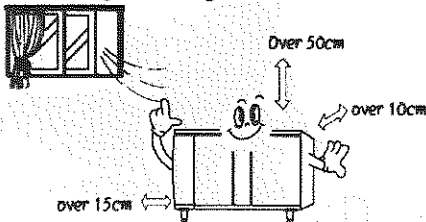


If you install the product under a shelf or where is a storage area above, ensure that nothing will fall down on the top.



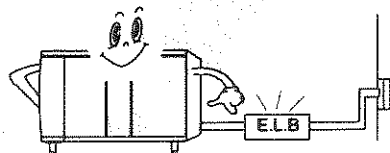
Install it in a well-ventilated area

- As cooling efficiency gets better in the well-ventilated area, allow adequate space around the refrigerator for good air circulation.



When the product is installed in a basement or at a wet or damp place.

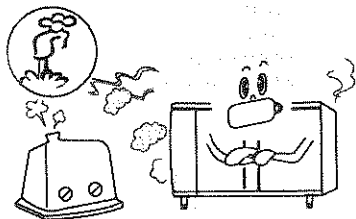
- Purchase and earth leakage circuit breaker from an agent or after-sales service center and then connect it to the outlet. Electric leakage breaker.



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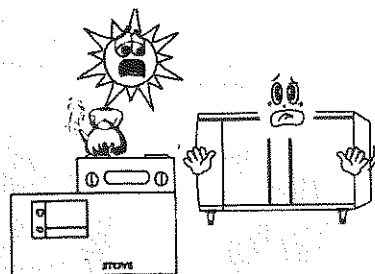
Avoid places that are damp, dusty or where water splashes

- If you install the product in a place which is, it may result in a power leakage. If dust piled up a lot in a system component cooling efficiency may be decreased.



Avoid places that are exposed direct to sunlight or excessive heat.

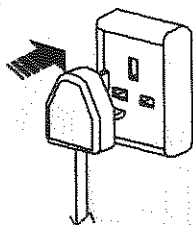
- Avoid places that are exposed to direct sunlight and excessive heat like electric or gas heater.



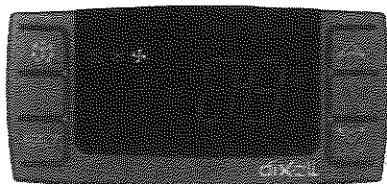
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Connect a power plug into an electric outlet 2-3 hours have passed after the installation.

- If the supply cord is damaged, it must be replaced by the manufacturer or its services agent or qualified person to avoid any hazard.



# TEMPERATURE CONTROL



**SET**



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

To start a manual defrost (Only XR02CX)

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

In programming mode it browses the parameter codes or decreases the displayed value.

## KEYS COMBINATION



To lock or unlock the keyboard

To enter in programming mode

To return to room temperature display

LED	MODE	MEANING
	On	Compressor enabled
	Flashing	Anti short cycle delay enabled (AC parameter)
	On	Defrost in progress
	Flashing	Dripping in progress
°C	On	Measurement unit
	Flashing	Programming mode
°F	On	Measurement unit
	Flashing	Programming mode

## HOW TO SEE THE SET POINT

1. Push and immediately release the SET key, the set point will be showed.
2. Push and immediately release the SET key or wait about 5 seconds to return to normal visual.

## HOW TO CHANGE THE SET POINT

1. Push the SET key for more than 2 seconds to change the Set point value;
2. The value of the set point will be displayed and the "°C" or "°F" LED starts blinking;
3. To change the Set value push the o or n arrows within 10s.
4. To memorize the new set point value push the SET key again or wait 10 second.

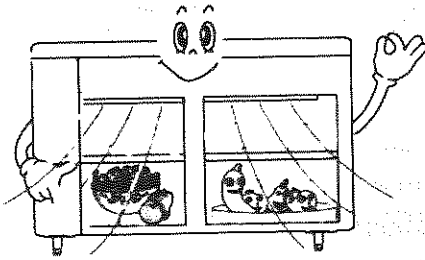
## HOW TO START A MANUAL DEFROST (ONLY XR02CX)

1. Push the DEF key for more than 2 seconds and a manual defrost will start.

# STORAGE OF FOOD STUFF

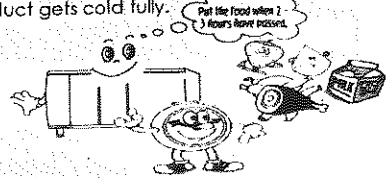
Don't pack the refrigerator with too much food.

- Cooling circulation gets worse owing to too much food, cooling time gets longer. Keep food at proper intervals. (If you put food at the bottom of product, cooling circulation become poor. Thus, keep food on the shelves.)



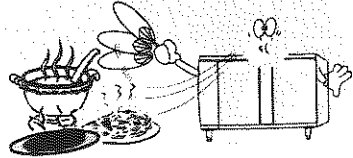
Keep food after 2-3 hours of the product installation.

- Put food into the refrigerator when 2-3 hours have passed since it starts working, that is, when the inside of product gets cold fully.



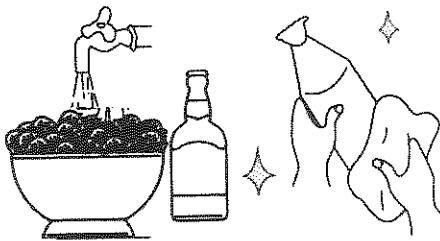
Wait until hot food is cooled down before storing it

- If you put hot food directly, it may spoil the food and electric consumption will increase.



Wash and keep vegetables or fruits

- Keep vegetable or fruits after washing and wiping them. Clean bottle or packed food so that not to soil other food and keep it.



Put food into plastic bag or container with a cover before keeping them in product.

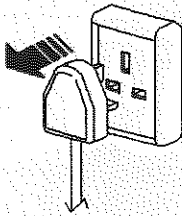
- Put juicy or smelly food into plastic bag container with a cover. They prevent food from becoming dry. Thus, food can be kept longer and the odor inside the refrigerator can be reduced.
- Take good food after expiration date out of the refrigerator.



# PRECAUTION MEASURES FOR USERS

When you don't use the product for a long time

- Take food out of the refrigerator and unplug the power cord.
- Clean and wipe the inside of the product and then dry it for 2-3 hours.

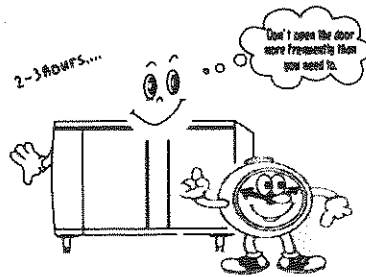


When power is off

- Don't open the door frequently unless needed.

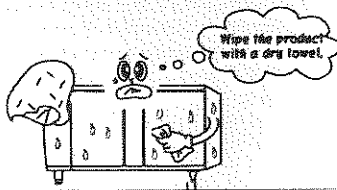
When power is supposed to be off

- Avoid keeping new food because it increases the temperature internally.



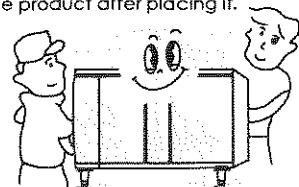
When tiny water droplets are formed

- Tiny water droplets may form when humidity around the product is high or it rains. If condensation happens, wipe the product with the dry towel.



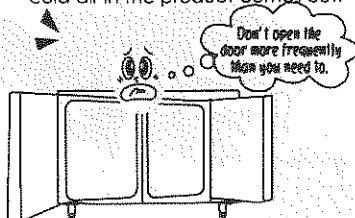
When you carry or move the product

- Be sure to unplug the power cord when you carry or move the product
- Be sure to carry the product with the several people as it is very heavy.
- Refer to the manual when you operate it again the product after placing it.



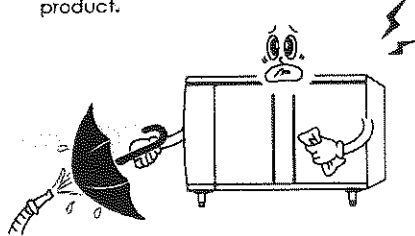
Don't open the door frequently unless needed.

- The frequent door opening may reduce the cooling efficiency as the cold air in the product comes out.



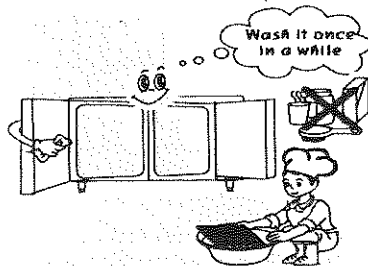
# CLEANING AND MAINTENANCE

- Clean the product once a month. If you clean it frequently, you can keep it clean and increase its lifespan.
- Unplug the power cord
- Don't sprinkle water directly on the top of system compartment to clean the product. It may cause power leakage and it may have the product damaged.
- Don't sprinkle water directly to clean the product.



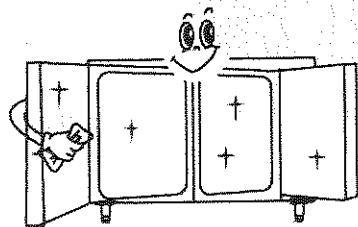
Internal and external care instructions.

- Wash it with cloth soaked in warm water.
- Wash in neutral detergent, be sure to wash it with clean water and to wipe completely the dampness with dry cloth.
- You can detach and wash shelves separately.
- Don't use thinner, benzene, oil, hot water, a rough brush, abrasive and hydrochloric acid which can change the color and form of the product.



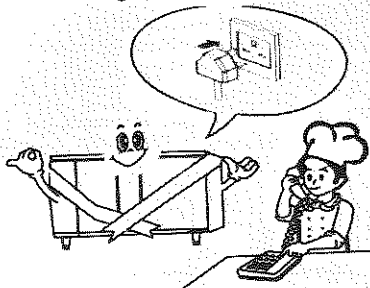
## Cleaning the door gasket

If you stain the gasket without cleaning, will damages the gasket in long term. Thus, wash it with a soft cloth soaked in a neutral detergent and wipe it with a clean cloth.

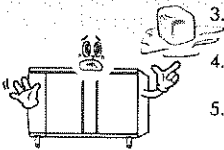
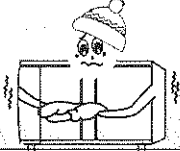
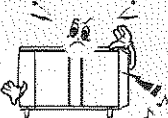
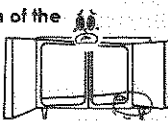
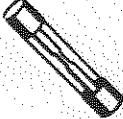


## After cleaning

- After cleaning, close the door lightly as food or other things may be prevent the gasket from being adhered to the body of the product. Make sure that it is adhered to the body completely.
- Make sure that the power cord is not damaged.
- Make sure that electrical overheating is not found from the power plug.
- Make sure that the power plug is connected to the outlet completely.
- Please read the user's manual thoroughly before you use this product.

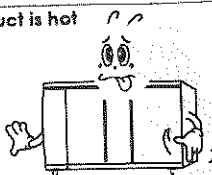
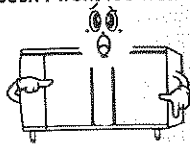
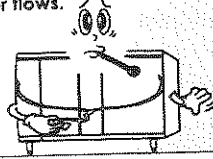
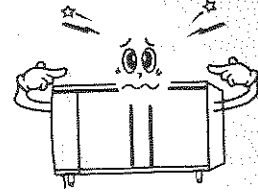
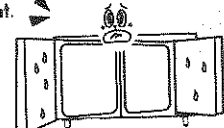
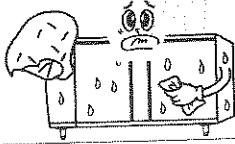


# TROUBLESHOOTING

Diagnosis	Checking	Arrangement
<p><b>Cooling system doesn't work. Cooling function is weak.</b></p> 	<ol style="list-style-type: none"> <li>1. Is the power plug connected properly?</li> <li>2. Is the temperature control set at low?</li> <li>3. Is the product exposed to direct sunlight and heater?</li> <li>4. Is the rear side of refrigerator too close to the wall?</li> <li>5. Did you open the door frequently than you need to? Is the door closed tightly?</li> <li>6. Did you put anything that blocks the ventilation of the system compartment?</li> </ol>	<p>Connect the power plug Press the temperature button to set at "high" Avoid placed that exposed to the sunlight or heaters. Allow the space above 10cm from the back and the side of the product Close tightly and don't open it too frequently. Don't put anything on the left side of machine room for the free air circulation. Otherwise, cooling efficiency may be decreased.</p>
<p><b>Food in refrigerator compartment is frozen.</b></p> 	<ol style="list-style-type: none"> <li>1. Is the temperature control set at "high"?</li> <li>2. Is the surrounding temperature placed below 10°C (50°F)?</li> <li>3. Is the juicy food put where cold air comes out?</li> </ol>	<p>Press the temperature control to set at "low" In the case of surrounding temperature below 10°C (50°F), move the product to a place whose surrounding temperature is in range of 10°C-35°C (50°F-95°F). Put juicy food at the front side of shelves.</p>
<p><b>You hear abnormal noise.</b></p> 	<ol style="list-style-type: none"> <li>1. Is the floor slanted to install the product?</li> <li>2. Is the back side of the product to close to the wall?</li> <li>3. Is there anything at the back and side of the product?</li> </ol>	<p>Install the product where the floor is even and firm. Allow the space over 10cm from the back and the side of the product. Don't keep anything at the back and the side of the product.</p>
<p><b>Water drops come down at the bottom of the refrigerator.</b></p> 	<ol style="list-style-type: none"> <li>1. Please check if there one insects or foreign substances block the drainage at the rear side of the product?</li> </ol>	<p>Seal the juicy food before putting it in the refrigerator. Detach and wash the drainage from the right back inside the refrigerator.</p>
<p><b>A fuse has a short circuit.</b></p> 	<ol style="list-style-type: none"> <li>1. Did you use a fuse which capacity is different or other substitutes?</li> <li>2. Is the fuse broken?</li> </ol>	<p>Never use fuse which capacity is different or other substitutes. Take the fuse out of a fuse holder and see if it is broken. If so, change the fuse with the same capacity fuse supplied to you after checking its rated voltage and electric current. Put the fuse into the fuse holder in the same way.</p>

# BEFORE YOU CALL FOR SERVICE

## Please check below FAQs

Cases	No troubles
<p>The front side of product is hot</p> 	<ul style="list-style-type: none"><li>❖ Hot wire has been installed to prevent tiny water droplets from being formed. You may feel that the product is hot but it is not out of order.</li></ul>
<p>The refrigerator door doesn't work too well.</p> 	<ul style="list-style-type: none"><li>❖ In the case open the door within 5-10 seconds after opening and closing the door, the door may not open very well owing to the difference of the internal pressure.</li><li>❖ Wait for 30 seconds and then open it, and it will open easily.</li></ul>
<p>You hear sound of water flows.</p> 	<ul style="list-style-type: none"><li>❖ It is the sound refrigerator flowing to cool the inside of product.</li></ul>
<p>You hear sound from the inside of the product.</p> 	<ul style="list-style-type: none"><li>❖ It is the sound occurred when the product starts operating at first and the sound occurred when the compressor and motor work. You may feel the sound is loud at first, but if the product works normally, the sound will be decreased after a while.</li><li>❖ When the refrigerator temperature goes back to its "normal" temperature, the compressor stops operating and then sound may occur. However, it is not out of order.</li></ul>
<p>Tiny water droplets are formed in the refrigerator compartment.</p> 	<ul style="list-style-type: none"><li>❖ In case the surrounding temperature and humidity are high, the refrigerator doors remains open for a while or juicy food is kept without cover, water droplets may formed inside.</li></ul>
<p>Tiny water droplets are formed on the outside of product.</p> 	<ul style="list-style-type: none"><li>❖ In case the surrounding humidity of the product is high or that it rains during the rainy seasons, water droplets may be formed in the outside of product. This condensation. Then, wipe them with dry towel.</li></ul>



# SPECIFICATION

## CHILLER

Model 760	MDRT-1D7-750	MDRT-1D7-900	MDRT-2D7-1200	MDRT-2D7-1350	MDRT-2D7-1500	MDRT-3D7-1650	MDRT-3D7-1800
Net storage capacity	127L	181L	290L	344L	399L	453L	508L
Size(mm)	W-750	W-900	W-1200	W-1350	W-1500	W-1650	W-1800
	D-760						
	H-850						
Weight	69KG	78KG	90KG	95KG	105KG	111KG	121KG
Range of temperature	[ 0°C ~ + 10°C ]						
Method of defrosting	CYCLE DEFROSTING						
No. shelves	2PCS	2PCS	4PCS	4PCS	4PCS	6PCS	6PCS

Model 600	MDRT-1D6-750	MDRT-1D6-900	MDRT-2D6-1200	MDRT-2D6-1350	MDRT-2D6-1500	MDRT-3D6-1650	MDRT-3D6-1800
Net storage capacity	92L	132L	210L	250L	290L	329L	369L
Size(mm)	W-750	W-900	W-1200	W-1350	W-1500	W-1650	W-1800
	D-600						
	H-850						
Weight	63KG	73KG	84KG	88KG	95KG	100KG	108KG
Range of temperature	[ 0°C ~ + 7°C ]						
Method of defrosting	CYCLE DEFROSTING						
No. shelves	2PCS	2PCS	4PCS	4PCS	4PCS	6PCS	6PCS

**FREEZER**

Model 750	MDFT-1D7-750	MDFT-1D7-900	MDFT-2D7-1200	MDFT-2D7-1350	MDFT-2D7-1500	MDFT-3D7-1650	MDFT-3D7-1800
Net storage capacity	127L	181L	290L	344L	399L	453L	508L
Size(mm)	W-750	W-900	W-1200	W-1350	W-1500	W-1650	W-1800
	D-760						
	H-850						
Weight	71KG	79KG	93KG	102KG	109KG	113KG	124KG
Range of temperature	[-15°C ~ -20°C]						
Method of defrosting	CYCLE DEFROSTING						
No. shelves	2PCS	2PCS	4PCS	4PCS	4PCS	6PCS	6PCS

Model 600	MDFT-1D6-750	MDFT-1D6-900	MDFT-2D6-1200	MDFT-2D6-1350	MDFT-2D6-1500	MDFT-3D6-1650	MDFT-3D6-1800
Net storage capacity	92L	132L	210L	250L	290L	329L	369L
Size(mm)	W-750	W-900	W-1200	W-1350	W-1500	W-1650	W-1800
	D-600						
	H-850						
Weight	65KG	74KG	85KG	96KG	99KG	102KG	111KG
Range of temperature	[-15°C ~ -20°C]						
Method of defrosting	CYCLE DEFROSTING						
No. shelves	2PCS	2PCS	4PCS	4PCS	4PCS	6PCS	6PCS

**MSM EQUIPMENT MANUFACTURER SDN.BHD (287568-X)**



Lot 1801, Jalan KP8 1, Kawasan Perindustrian Kg. Baru Balakong,  
43300 Seri Kembangan, Selangor,  
Malaysia  
Tel : +60 3 8961 2181 Fax : +60 3 8961 0257  
Email : [msmequip@msmmgroup.com](mailto:msmequip@msmmgroup.com)