

Horizontal Showcase Operation instructions

Thank you for purchasing this horizontal show case

Please read these instructions carefully to ensure you get the best results and longest life from your product.

Contents

- 2) General
- 2) Structure and Parts
- 3) Handling and Placement
- 4) Set up and Power
- 5) Usage instructions
- 6) Safety Warnings
- 7) Maintenance and Trouble Shooting
- 8) Refrigeration System and Circuit diagram
- 9) Technical Specifications

Note

- The electric circuit diagram and parameters on the product nameplate are final ones if they have been changed.
- 2. The design might be improved without notice.



WARNING:

Refrigerant is facility burning of R290, please protect against fire.



Meaning of crossed out wheeled dustbin:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact you local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being. When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.

Major Parameters

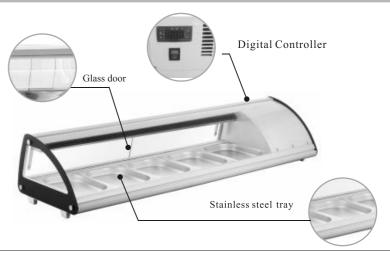
Parameter	RTS-43L	RTS-63L
Coolant and injection quantity(g)	R134a(60)/R290(30)	R134a(60)/R290(30)
General Rated input power(W)	180/160	180/160
Rated current(A)	2.3/1.4	2.3/1.4
Refrigeration temperature(°C)(°F)	0-12(32-53.6)	0-12(32-53.6)
Electric shock protection class	I	I
Type of climate	4	4
Lamp power(W)	6(LED)	6(LED)
Total effective volume(L)	4*1/3 GN	5*1/3 GN
Net weight(kg)	33	36
Rated voltage(V~)	110-120	110-120
Rated Frequency(Hz)	60	60
Overall dimension (mm) (LxWxH)	1131x450x330	1307x450x330
Foaming agent	Cyclopentane	Cyclopentane

Parameter	RTS-83L	RTS-103L
Coolant and injection quantity(g)	R134a(60)/R290(30)	R134a(80)/R290(30)
General Rated input power(W)	180/160	180/160
Rated current(A)	2.3/1.4	2.3/1.6
Refrigeration temperature(°C)(°F)	0-12(32-53.6)	0-12(32-53.6)
Electric shock protection class	I	I
Type of climate	4	4
Lamp power(W)	6(LED)	6(LED)
Total effective volume(L)	6*1/3 GN	5*1/2 GN
Net weight(kg)	39	44
Rated voltage(V~)	110-120	110-120
Rated Frequency(Hz)	60	60
Overall dimension (mm) (LxWxH)	1483x450x330	1754x450x330
Foaming agent	Cyclopentane	Cyclopentane

General

- 1. A high quality, fully enclosed compressor is used in this product and utilises the R134a or R290 refrigerant which is an environmentally friendly gas. Direct-cooled refrigeration system is used which ensures that the temperature is very even throughout the ease.
- 2. Glazing is used throughout the product for maximum visibility and two rear mounted sliding doors allow easy access.
- 3. The horizontal showcase has a wide range of uses including convenience stores, bakery outlets and other food service establishments as well as offices and even homes.
- 4. Always allow a time of around 2 hours between moving the unit and restarting it.

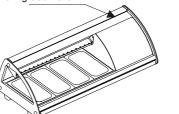
Structure and Parts



1. Open the front glass here.



3. Open the front glass for 60° degree to fix it, then you can do cleaning or change advertising paper.



4. Pay attention: for the sake of safety, don't pull the front glass with tension over 30N.

2. Open the front glass for 30° degree to pullit up.





Handle and Erection

Handle with care Unplug the wall socket first. Never tilt it over 45 degree during handling.



Dry place Always locate the refrigerator at a dry place.



Sufficient space

The distance from both sides and back of refrigerator to wall or other substance must be less than 10cm. The refrigeration capability might be decreased if its surround space is too small to circulate air.



Well ventilation

Always locate the refrigerator at a place with fine ventilation. For the first time use, wait for 2 hours after handling and then plug the wall socket and start it.



Far from heat source

Never place the refrigerator directly under the sunshine. Never locate it nearby any heat source or heater to prevent it from reducing refrigeration capability.



No heavy load

Never put any heavy load on the top of the refrigerator.



No hole making Never make hole on the refrigerator. Never install other matter on the refrigerator.



Stable location

To avoid the unexpected noise and vibration, Unpacking and locate the refrigerator on a flat and solid place._



Note

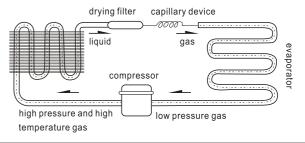
Following phenomena are not troubles

The murmur of water is heard when the refrigerator is working. It is a normal phenomenon as the coolant is circulating in the system.

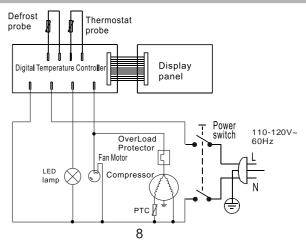
In wet season, condensation might be found on the outside of the refrigerator. It is not a trouble, which is caused by high humidity. Simply use cloth to wipe it.

Principle of Refrigeration System and Electric Circuit Diagram

The principle of compression refrigeration consists of "compression", "condensation", "throttling" and "vaporization". The compression is undertaken by compressor, the condensation is completed by condenser, the throttling valve is executed by capillary and the vaporization is implemented by evaporator. When the coolant is circulating in the closed refrigeration system, the compressor sucks coolant, which has absorbs heat in evaporator, the coolant becomes a high pressure and high temperature gas. In condenser, it dissipates heat in air, while the coolant is re-liquefied and throttled in capillary and then enters into evaporator with low pressure. The liquefied coolant quickly boils and vaporizes into gas when the pressure suddenly drops. Meanwhile, it absorbs heat inside the refrigerator. And the compressor sucks the low pressure and low temperature gaseous coolant,……...It is circulating in this way up to realization of intended refrigeration.



Circuit Diagram



Maintenance

1.Notice

Always unplug the unit before performing any form of maintenance

Clean the fridge regularly using a clean, damp cloth. Do not use cleaning detergents sucks as soap, acetone or gasoline

2.Clean Outside

Dip a soft cloth in a mild detergent (washing up liquid) to clean the outside, and then wipe off with a dry soft cloth.

3.Clean Inside

Remove the tray and clean with water

Use a soft, damn cloth to wipe the interior

4. Turning off for prolonged periods

Take out all food and unplug the unit from the wall.

Clean both the inside and outside of the fridge thoroughly and open the door to allow it to dry.

Be careful as the glass can easily be broken.

5.Replacement of the light

If the LED is damaged it must be replaced by the manufacturer or their service agent.

6. This product is a direct cooling refrigerator, also named as frost freezer. When the frost thickness in the refrigerator is more than 5mm, It will seriously affect the cooling effect, and the running time of the compressor will be prolonged accordingly. In the process of use, manual defrosting regularly were requested.

Defrosting method:

- a. Unplug the refrigerator or turn off the power switch. Please open the door of refrigerator if there is door.
- b. Take out all food from the refrigerator.
- c. According to ambient temperature, defrosting time is about 2-12 hours. Turn on the refrigerator until the frosting completely melts.
- d. When defrosting, do not use sharp tools to contact the cooling system or inner tank.

Trouble Shooting

Problem	Cause	Remedy		
No refrigeration	Is the plug in the socket correctly?	Check the plug		
	Is the fuse broken?	Check fuse and replace if needed		
	Is there no power from the socket?	Plug another unit into the socket to check if it works		
Unsatisfactory Refrigeration	Is it in direct sunlight or near a heat source?	Move away from the heat source		
	Is the surrounding area bad for ventilation?	move to an area with improved ventilation		
	Does the door close correctly? Is the door left open?	Check the door		
	Is the unit too full?	Remove some food		
	Is the temperature controller correct	Check the controller		
	The fridge is not sitting level	Move to a flat surface		
Unit is making irregular noise	The fridge is vibrating off something else	Move the unit so it is not touching anything		
	There is a loose part in the refrigerator	Check the interior for loose items		
Contact the manu	Contact the manufacturer for help if simple trouble shooting does not solve the problems			

Setup and Power

Exclusive power socket
Normally, the power supply
should be 110-120V,60Hz
single phase AC with exclusive
single phase three pin receptacle.



Common Sockets Never use a multiple plug extension lead for this product



Protect the cables Never break, damage, cut or otherwise modify the power cables as this can lead to fire and electrocution



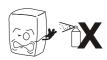
Keep away from Water Never flush the refrigerator with water, only use a clean, damp cloth to wipe it down.



Flammables and explosives Keep all flammable and explosive substances away from the fridge as the heat generated by the compressor could cause a fire.



Flammable Spray Never spray or clean the unit with a flammable spray.



Power Cut
After a power cut or unit shut down
please allow at least 4 minutes
before plugging in the unit and
re-starting it again.



Not Suitable for Medicine This refrigerator is not suitable for the storage of medicinal products.



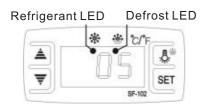
Usage Instructions

1. Before use:

Plug the fridge in to an exclusive 110-120V~ socket

Once the fridge has been running place your hand on the air extractor to confirm that it is sufficiently cold once you are happy then you may put food inside.

2. Digital temperature controller:



Featuers Of Function

- It is a mini-sized and integrated intelligent controller and applicable to the compressor of one Hp.
- The main functions are:Temperature Display/Temperature control/Manual, automatic defrost by burning off/Illumination Control/Value Storing/self Testing/parameter Locking.

Front Panel Operation

1. Set temperature

Press [SET] button, the set temperature is displayed.

Presslacklack or lacklack button to modify and store the displayed value,

Press button to exit the adjustment and display the cold-room temperature.

- 2. If no more button is pressed within 10 seconds, the cold-room temperature will be displayed.
- 3. Illumination:Press & button,it lights;Press again,it stops.

 Manual start/stop defrost:Press button and hold for 6 seconds to defrost or stop defrost.
- 4. The indicator light twinkles when the compressor stops working and the indicator light is on when the compressor is working.
- 5. Defrost LED:during defrosting, the LED is on; When is stops defrosting, the LED is off, During the delay display of defrost, the LED flashes.
- 6. Digital controller reset
 When display shows "Disorder", press "▼" button for 2s until buzzer rings, quickly
 press "▲" button for 6s until buzzer rings again, the display will flash for 3s and it
 restores factory setting.

Safety Warnings

When opening the door try to reduce the length of time that it is open for in order to keep the temperature inside cold.

Do not overload the unit with food as it will affect the cooling ability.

Always cool hot food down to room temperature before placing it in the fridge.

The unit should only be maintained by a professional engineer.

Never touch the compressor as it may be hot and burn you.

If the power cord is damaged it must be replaced by the manufacturer or a professional engineer.

Children should be supervised at all times to ensure they are not hurt by the unit.

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.

Children should be supervised to ensure that they do not play with the appliance The operation manual are not suitable for the persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.

Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

During normal operation, the emission noise level does not exceed 70dB(A). The maximum loading of the Shelf does not exceed 18kg.

The climatic class of the appliance is 3, the Units are suggested to be used at $16^{\circ}\text{C}-25^{\circ}\text{C}(60.8^{\circ}\text{F}-77^{\circ}\text{F})$ ambient temperature.

To avoid damages or other problems, this product can not be put or stored with any corrosive food.

WARNING! Keep ventilation openings clear of obstruction at all times.

WARNING! Do not use mechanical devices or any other means of accelerated defrosting unless recommended by the manufacturer.

 $WARNING!\ Do\ not\ damage\ or\ modify\ the\ refrigeration\ circuit.$

WARNING! Do not use electrical appliances inside the food storage areas unless they are recommended by the manufacturer.