COLD-ZONE

OPEN DISPLAY

OPERATION INSTRUCTIONS

220

250

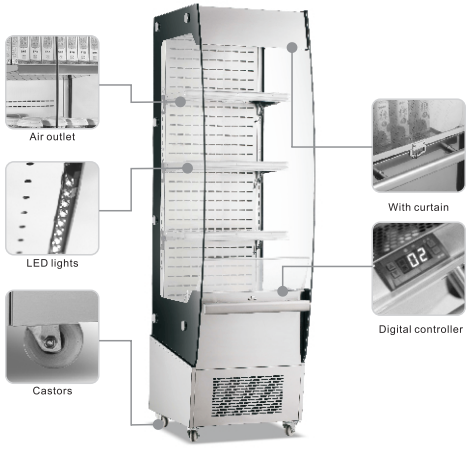
Thank you for choosing and purchasing our product.Please carefully read the operation instructions before use for a correct application and satisfactory effect.

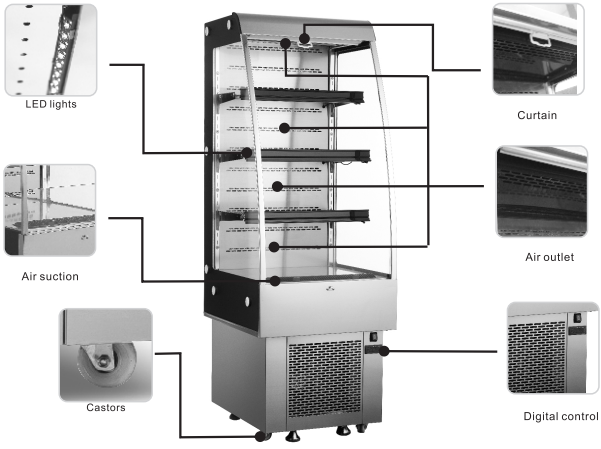
Contents

General

This product is a type of chilling cabinet, which is our new development of refrigeration combining the advanced technologies from both and abroad on the basis of food cabinet standards and corporate criteria. Its main kits and key components are all good brands, either and streamlined design, the product integrates the actual market demand in structural design, which better cater to the ergonomics requirements of consumers. This series applies mainly to displaying and selling of drinks, dairy products, vegetables and fruits.

Structure and Parts





Handle and Erection

Handle with care

Unplug the wall socket first.

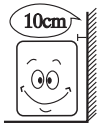
Never tilt it over 45 degree during handling.

Dry place

Always locate the refrigerator at a dry place.

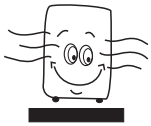
Sufficient space

The distance from both sides and back of refrigerator to wall or other substance must not less than 10cm. The refrigeration capability might be decreased if its surround space is too small to circulate air.



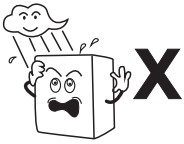
Well ventilation

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.



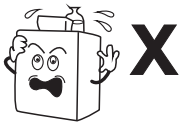
Far from heat source

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



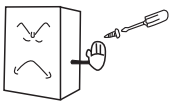
No heavy load

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



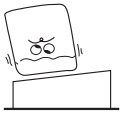
No hole making

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.



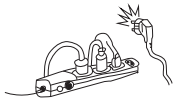
Preparation and Power Supply

Exclusive power socket

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

No share on socket

Never let the refrigerator share the common socket with other appliance, otherwise the cable becomes hot and fire might be resulted



Protect cables

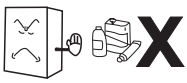
Never break or damage the cables otherwise current leakage and fire might be resulted.

No water flushing

Never giver the refrigerator surface a flush otherwise current leakage might be resulted.

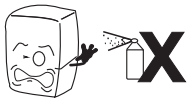
Prevent from flammables and explosive

Never put any flammable or explosive inside the refrigerator such as ether, gasoline,alcohol, adhesive and explosive. Never put dangerous product nearby the refrigerator.



No spray

To spray the flammables such as paint or coating nearby the refrigerator is not allowed, otherwise fire might be resulted.



After power break

After power break or unplugging the refrigerator, always wait at least 5 minutes and then you may plug the refrigerator and start it again.

No medicine

No medicine is allowed to keep inside the refrigerator.

Use and Caution

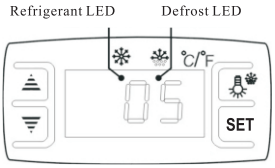
1. Before use:

Plug the refrigerator on 110-120V~ exclusive socket.

After the refrigerator running,put hand on the air suction to confirm it is sufficient cold. Then you may put food inside the cold box.

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.

2. Digital Temperature controller:



Features 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.
   Press ▲ or ▼ button to modify and store the displayed value,
   Press SET 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. Refrigerant LED: During refrigeration,the LED is on; When the cold room temp.is constant, the LED flashes.
5. Defrost LED: during defrosting, the LED is on; When is stops defrosting, the LED is off.
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.

3. Cautions

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons itn order to avoid a hazard.
Never block the air suction and outlet. Keep air circulation and refrigeration capability.
Do not make food congested as it will influence the cooling effect. Adjust the rack height for proper food storage.
Cool the hot food down to room temperature before you put it into the refrigerator.
Try to pull down the curtain and keep refrigerator inside cold in case the power is cut off.
Never touch compressor to avoid from scald.
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 6, the Units are suggested to be used at 16℃-27℃ (60.8℉-80.6℉) ambient temperature.
To avoid damages or other problems, this product can not be put or stored with any corrosive food .

Maintenance

1. Cabinet cleaning. The product should be cleaned once a week with power supply disconnected. In cleaning please use mild rinsing water or non-corrosive cleanser essence. Do not wash it directly with water faucet.
2. Leaking check. Observe all connectors and welding joints for oil stain, which indicates a must for patching measures or call for professionals.
3. Frequently observe the operation of the product. Lu case of any abnormal noise, smell or smog, cut off the power supply immediately and call for professionals for help. Do not restart the product before trouble is cleared.
4. We will not be responsible for any accident incurred by failures of following the notices.

Trouble Shooting

Number	Troubles	Causes	Solutions
1	Strange noise under the bottom shelf	Fan blade broken.	Power off and fix the blade.
2	Non-refrigerating in spite of normal operation	1.Unit off. 2.Melting process 3.Refrigerant leaking 4.Unit failure.	1.Power on. 2.Stop melting. 3.Patch the leak and refill refrigerant 4.Call for professionals.
3	Weak air from air curtain, and higher cabinet temperature	1.Evaporator blocked by frost.. 2.Inside fan damaged. 3.Too low set point of temperature controller. 4.Vent blocked by storage	1.Increase melting frequency. 2.Replace the fan. 3.Adjust the set point. 4.Remove the storage.
4	Normal air curtain, but higher cabinet temperture	1.Insufficient refrigerant. 2.Too high set point of temperature controllers. 3.The wind curtain disturbed by strong air flow. 4.Ambient temperature or humidity beyond standards.	1.Refill the refrigerant. 2.Adjust the set point for the temperature controller. 3.Removing the disturbing factors. 4.Improve the conditions.
5	Melting water overflown	1.Heating pipe for melting water damaged 2.Water-level controller failure. 3.Ambient temperature or humidity beyond standards.	1.Replace the heating pipe. 2.Replace the water-level controller. 3.Improve the conditions.
6	Normal air curtain,but Periodical fluctuation of cabinet temperature	1.Condenser contaminated. 2.Poor venting of the unit. 3.Heat protection of compressor failure 4.Capillary is blocked by ice 5.Temperature controller failure.	1.Clean the condenser. 2.Improve the venting conditions. 3.Replace the heat protection. 4.Replace the drying filter. 5.Replace the temperature controller

Note

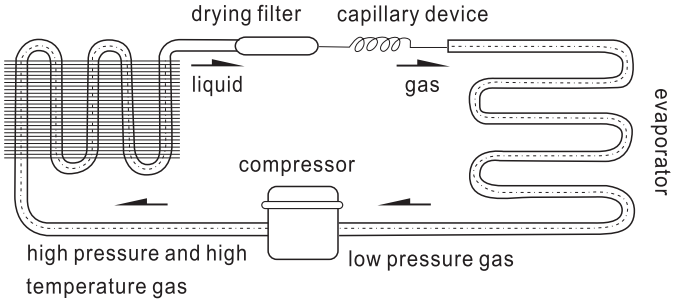
Following phenomena are not troubles:

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

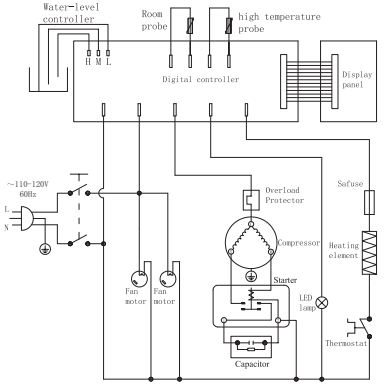
In wet season, condensation might be found on the outside of the refrigerator. It is not a trouble, which is caused by high humidity. Simply use cloth to wipe it.

Principle of Refrigeration System

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 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



Major Parameters

Parameter \ Model	CF-220	CF-250
Coolant and injection quantity(g)	R290(143)	R290(148)
General Rated input power(W)	1135	1220
Power running of electrical heating element(W)	450	450
Max.ambienttemp./RH	<80. 6℉/70%	<80. 6℉/70%
Refrigeration temperature(℉)	35. 6-50	35. 6-50
Rated voltage(V)	110-120~	110-120~
Rated Frequency(Hz)	60	60
Rated Current(A)	11.8	11.8
Type of Climate	6	6
Net weight(kg)	95	100
Total effective volume(L)	220	250
Overall dimension (mm) (LxWxH)	495x680x1745	610x754x1704

Note

1. The electric circuit diagram and parameters on the product name plate are final ones if they have been changed.
2. The design might be improved without notice.
3. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

ADDITIONAL WARNING:

Caution: risk of fire. The height of the triangle in the symbol shall be at least 15mm.

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.