

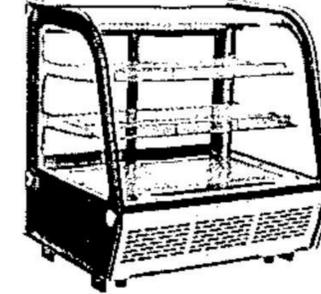
# Refrigerator

## Operation instructions

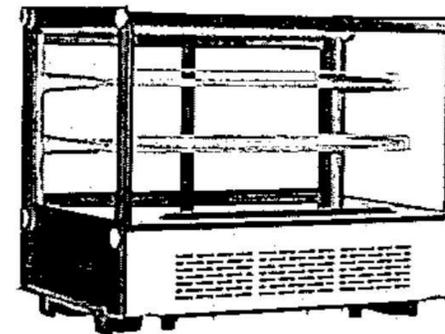
XCW-100L



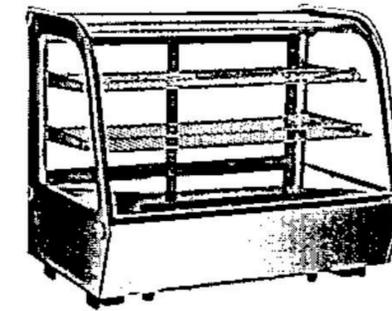
XCW-120L



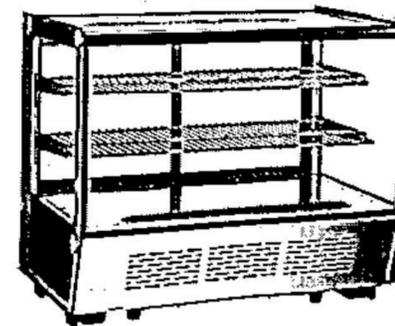
XCW-160F



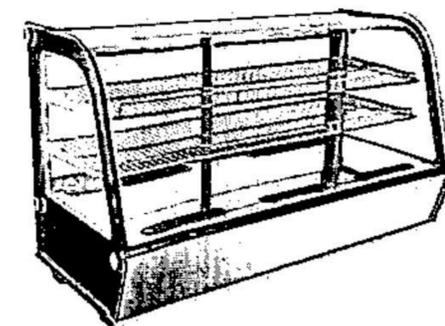
XCW-160LS



XCW-160Z



XCW-200LS



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
- Structure and Parts
- Handle and Placement
- Preparation and Power Supply
- Use and Caution
- Maintenance
- Trouble Shooting
- Principle of Refrigeration System
- Circuit Diagram
- Major Parameters

## General

1. Top brand fully enclosed compressor is used on the desk-top refrigerator. The refrigerant R600a or R290 is of an environmentally friendly agent. It features a rational configuration of refrigeration system with blower forced air cooling. The temperature is quite even inside the refrigerator.
2. Double hollow transparent glasses are used on door and body. It features an artistic and elegant appearance, perfect perspective and easy access.
3. Do not store explosive substances such as aerosol cans with a flammable propellant inside the appliance.
4. The max. load for shelf is 10 kg.
5. 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.

The climatic class is 4.

Testroom climate class	Drybulb temperature °C	Relative humidity %	Dewpoint °C	Waterweight in dry air g/kg
0	20	50	9.3	7.3
1	16	80	12.6	9.1
2	22	65	15.2	10.8
3	25	60	16.7	12
4	30	55	20.0	14.8
5	40	40	23.9	18.8
6	27	70	21	15.8
7	35	75	30	27.3

WARNING – Keep clear of obstruction all ventilation openings in the appliance enclosure or in the structure for building-in

WARNING -- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer

WARNING – Do not damage the refrigerant circuit

WARNING – Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer



Meaning of crossed out wheeled dustbin:

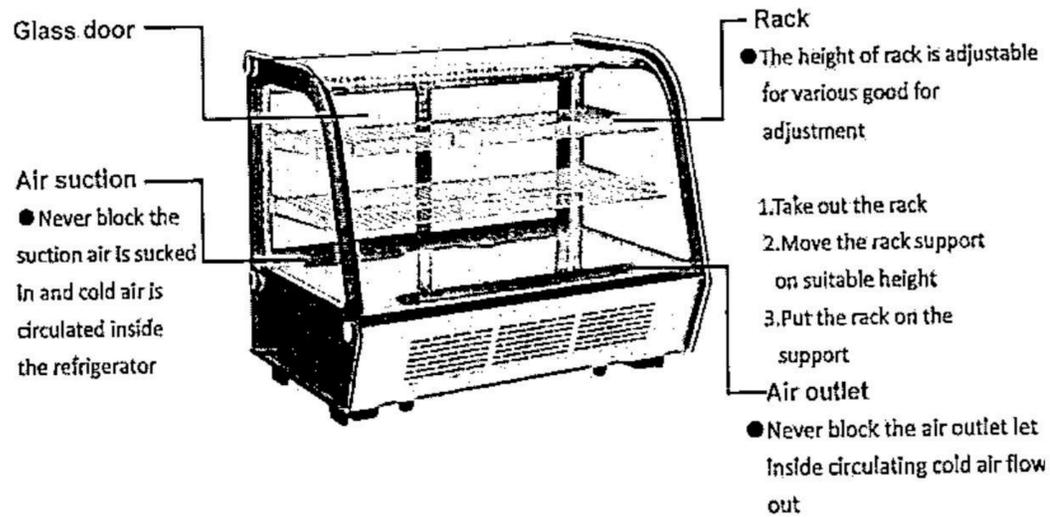
Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your 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 disposal at least free of charge.

**Structure and Parts**



**Handle and Placement**

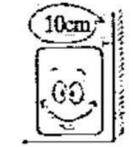
**Handle with care**  
 Unplug the wall socket first.  
 Never tilt it over 45 degree during handling



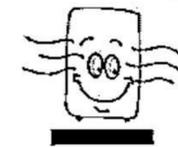
**Dry place**  
 Always locate the refrigerator at a dry place.



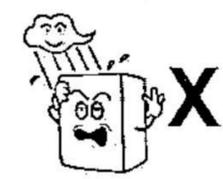
**Sufficient space**  
 The distance from both sides and back of refrigerator to wall or other substance must not less than 10cm. The refrigeration capability might be decreased if its surround space is too small to circulate air.



**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.

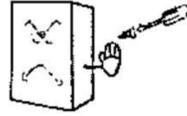


**No heavy load**  
 Never put any heavy load on the top of the refrigerator.



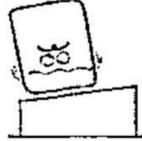
#### No hole making

Never make hole on the refrigerator. Never install other matter on the refrigerator.



#### Stable location

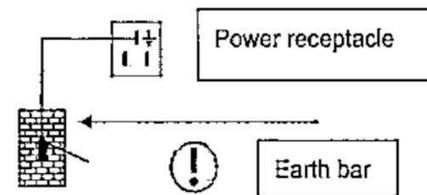
Unpacking and locate the refrigerator on a flat and solid place.



### Preparation and Power Supply

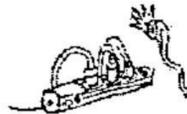
#### Exclusive power socket

Normally, the power supply should be 220-240V, single phase AC with exclusive single phase three pin receptacle (250V 10A) and fuse (6A). The power receptacle must have a reliable earth connection.



#### 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.



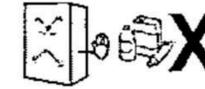
#### No water flushing

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



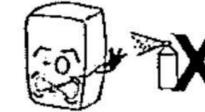
#### Prevent from flammables and explosive

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:

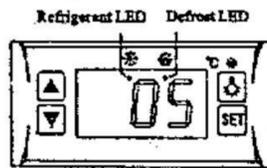
Plug the refrigerator on 220-240V~ exclusive socket.

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.

#### 2. Digital Temperature controller

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 bt 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  $\Delta$  or  $\nabla$  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  $\square$  button, it lights; Press again, it stops.  
 Manual start/stop defrost: Press  $\square$  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 is off; During the delay start, the LED flashes.
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.

**3. Cautions**

Shorten the door open time and reduce open frequency is good to keep a cold temperature inside the refrigerator.

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 reduce the open times and keep refrigerator inside cold in case the power is out off.

Only skilled service man is allowed to repair the damaged power cable with special tools.

Never touch compressor to avoid from scald.

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.

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.

1. Notice  
 Often keep the refrigerator clean and periodical maintenance is necessary.  
 Always unplug the socket before maintenance  
 Never use damaged plug or loose socket to prevent from electric shock or short circuit.  
 Never flush the refrigerator. Never use alkali detergent, soap, gasoline, acetone or brush.
2. Clean outside  
 Dip soft cloth in neutral detergent(tableware detergent) to clean the outside of the refrigerator and then wipe it with dry soft cloth.
3. Clean inside  
 Take rack out for cleaning with water
4. Shut down refrigerator for a long time  
 Take all food out and unplug the wall socket.  
 Clean both inside and outside of the refrigerator thoroughly and open the door for sufficient dry.  
 The glass breaks easily. Keep the glass far from children.
5. Replacement of lamp in the light box  
 If the LED is damaged, it must be replaced by the manufacturer, its service agent.

**Trouble Shooting**

Trouble	Cause and Remedy
No refrigeration	Is the plug in socket well? Is the fuse broken? Is there no power?
Unsatisfactory refrigeration	Is it under the sunshine? Is there any heat source nearby? Is the surrounding ventilation bad? Does the door close well? Does door open for a long time? Is the door seal strip deformed or damaged? Is food congested or too much? Does food block the air suction or outlet? Regulate the temperature controller.
Much noise	The refrigerator does not level. The refrigerator contacts wall or other matter. There is loose part in refrigerator.
Contact local service agent for help if simple trouble shooting does not solve the problems.	

**Note:**

Following phenomena are not troubles

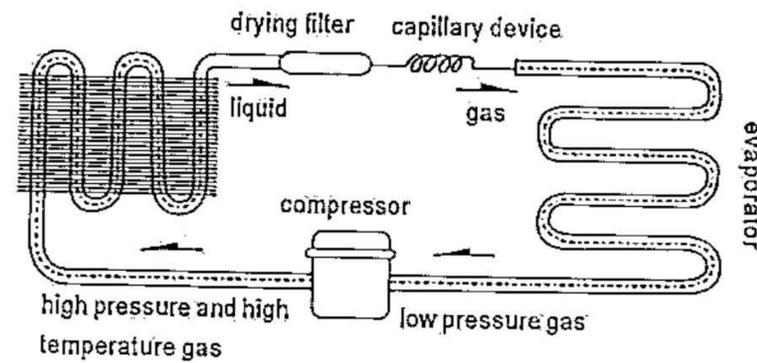
The murmur of water is heard when the refrigerator is working. It is a normal phenomenon as the coolant is circulating in the system.

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.

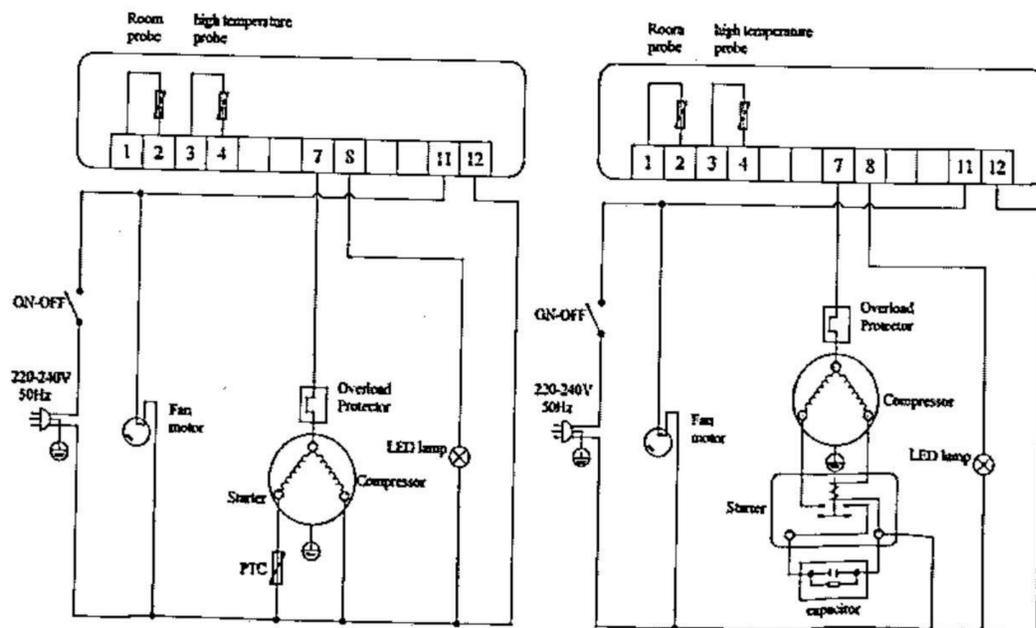
**Maintenance**

## 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 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



## Major Parameters

Model	XCW-100L	XCW-120L/LS/F/Z	XCW-160L/LS/F/Z	XCW-200L/LS/F/Z
Coolant and injection quantity	R600a(45)	R600a(65)	R600a(70)	R290(65)
Kind of weather	4			
Refrigeration temperature(°C)	0-12			
Electric shock protection class	I			
Rated Voltage(V)	220-240~			
Rated Frequency(Hz)	50			
Rated Current (A)	1.53	1.65	1.65	2.58
Lamp Power (W) :	2			
Total effective volume(L)	100	120	160	200
Net weight (kg)	39	57	66	100
Overall dimension(mm)	682x450x675	710x568x686	888x568x686	1227x568x686

### 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.

### ADDITIONAL WARNING:

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

