

ROVSUN

Commercial Refrigeration-Upright Chiller & Freezer

OPERATION INSTRUCTIONS



Thank you for your purchase.Please read the operation instructions carefully before use.

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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



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.

General

- 1. Top brand fully enclosed compressorhas been used in our equipment.
- 2. Advanced refrigeration system with blower to ensure cold air circulation better inside.
- 3. High-density polyurethane overall foaming delivers engery -saving reslut.
- 4.Fluorine-free and enviromentally firendly refrigerant R290.
- 5.The appliance is intended for commercial use or similar use.

Structure and Parts

AB-49R/F

37	Junction box	2	
36	lamp	1	
35	Electrical lifted the lid	1	
34	Circuit board	1	
33	Electrical box	1	
32	Capacitance fixing box	1	
31	rack	8	
30	k-shape clip	32	
29	Jacob's ladder	8	
28	castor	4	
27	Door gasket	2	
26	The lock	2	
25	On the cover plate	2	
24	The thermostat	1	
23	bottom hinge	1	
22	upper hinge	1	
21	doors	2	
20	The decorative	1	
19	Wind shell	1	
18	Fan mounting plate	1	
17	Evaporation fan	2	
16	In a water container	1	
15	Frost tube	1	
14	The evaporator	1	
13	External water box	1	
12	After the retainer	1	
11	Water outlet fasteners	1	
10	Refrigerating compressor starting capacitance	1	
9	condensate fan	1	
8	The fan net	1	
7	The condenser	1	
6	Start capacitance of compressor	1	
5	compressor	1	
4	Unit mounting plate	1	
3	he unit guide	2	
2	Unit support plate	2	
1	cabinet	1	
serial number	name	number	material

Safety Information

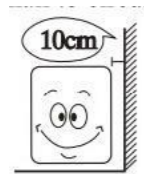
Handle with care
Unplug the wall socket first
Never tilt it over 45 degree during handling



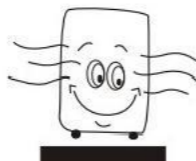
Dry place
Always locate the refrigerator at a dry place.



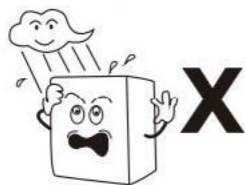
Sufficient space
The distance from both sides and back of refrigerator to wall or other substance must not less than 10cm.The refrigeration capability might be decreased if its surround space is too small to circulate air



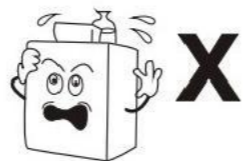
Well ventilation
Always locate the refrigerator at a place with fine ventilation.For the first time use,wait for 2 hours after handling and then plug the wall socket and start it.



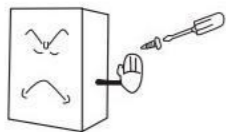
Far from heat source
Never place the refrigerator directly under the sunshine.Never locate it nearby any heat source or heater to prevent it from reducing refrigeration capability.



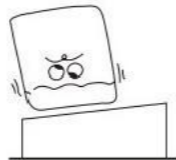
No heavy load
Never put any heavy load on the top of the refrigerator



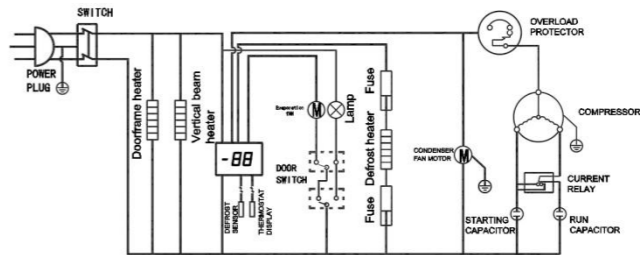
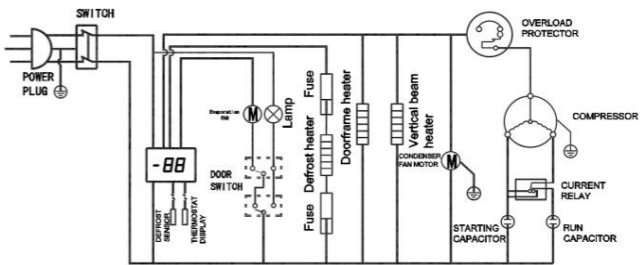
No hole making
Never make hole on the refrigerator.Never install other matter on the refrigerator.



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



Circuit Diagram



Parameters

Model	AB-49R	AB-49F
Parameter		
Coolant and injection quantity(g)	R290, 110	R290, 95
Type of climate	4	4
Refrigeration temperature(F)	28-50	-4-0
Electric shock protection class	I	I
Rated Current(A) :	3.8	7.0
Rated Frequency(Hz)	60	60
Rated voltage(V~)	115	115
Total effective volume(L)	1130	1130
Net weight(kg)	190	195
Overall dimension (mm) (LxWxH)	1372x758x2126	1372x758x2126

Note

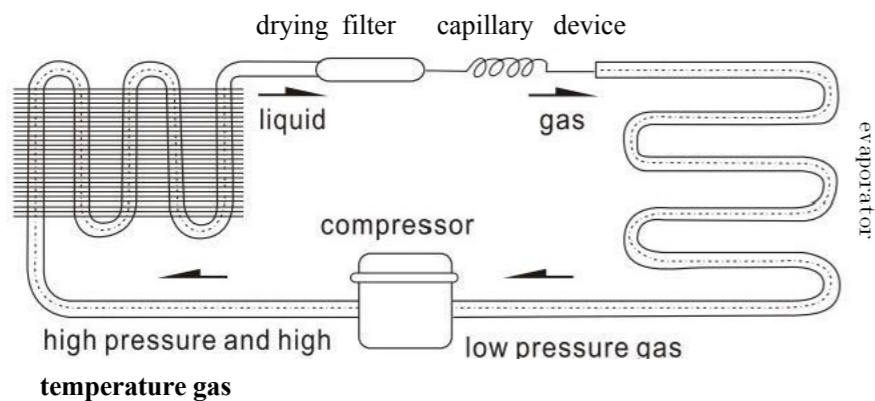
Following phenomena are not troubles:

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


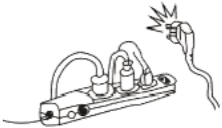


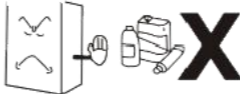
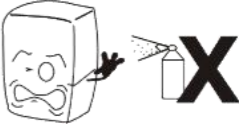


In wet season,condensation might be found on the outside of the refrigerator.It is not a trouble,which is caused by high humidity.Simply use cloth to wipe it.

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.



Preparation and Power Supply

<p>Exclusive power socket Normally,the power supply should be 110-120V,60Hz single phase AC with exclusive single phase three pin receptacle</p> 	<p>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</p> 
<p>Protect cables Never break or damage the cables otherwise current leakage and fire might be resulted</p> 	<p>No water flushing Never giver the refrigerator surface a flush otherwise current leakage might be resulted</p> 
<p>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</p> 	<p>No spray To spray the flammables such as paint or coating nearby the refrigerator is no allowed,otherwise fire might be resulted</p> 
<p>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.</p> 	<p>No medicine No medicine is allowed to keep inside the refrigerator</p> 

Opeartion and Caution (part1)

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.

2.Digital Temperature controller:



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 5s to return to normal visualisation.

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 “°F” LED starts blinking;
- 3. To change the Set value push the ▲ or ▼ arrows.
- 4. To memorise the new set point value push the SET key again or wait 10s.

HOW TOSTART A MANUAL DEFROST

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

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 cut off.

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

Never touch compressor to avoid from scald.

Opeartion and Caution (part2)

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 is 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 30kg.

The climatic class of the appliance is 4,the Units are suggested to be used at 16°C-32°C(60.8F-89.6°F) ambient temperature

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

Maintenance

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(table ware 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.

Clean the condensate tray and wipe it dry.

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.	