

Note

1. 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.

Refrigerator

OPERATION INSTRUCTIONS



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

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Model:	ARC-271Y/ ARC-271Z	ARC-371Y/ ARC-371Z	ARC-471Y/ ARC-471Z
Rated Input Power(W):	600	620	605
Rated Current(A):	7.1	7.4	7.1
Refrigerant&Injection(g):	R290(130)	R290(140)	R290(145)
Refrigeration Temperature(°C)(°F):	0-12(32-53.6)	0-12(32-53.6)	0-12(32-53.6)
Rated Frequency(Hz):	60	60	60
Type of Climate:	4	4	4
Protected Mode:	I	I	I
Lamp Power(W):	23(LED)	38(LED)	50(LED)
Rated Voltage(V~):	110-120	110-120	110-120
Foaming agent:	Cyclopentane	Cyclopentane	Cyclopentane
Storage Volume(L):	310/390	420/530	535/670
Net Weight(kg):	146/162	177/195	210/229
Overall Dimension (mm)(LxWxH):	925x680x1420/ 925x680x1410	1225x680x1420/ 1225x680x1410	1525x680x1420/ 1525x680x1410

Model:	ARC-570Y/ ARC-570Z	ARC-571Y/ ARC-571Z
Rated Input Power(W):	600/620	625
Rated Current(A):	7.5	7.7
Refrigerant&Injection(g):	R290(145)	R290(145)
Refrigeration Temperature(°C)(°F):	0-12(32-53.6)	0-12(32-53.6)
Rated Frequency(Hz):	60	60
Type of Climate:	4	4
Protected Mode:	I	I
Lamp Power(W):	52(LED)	60(LED)
Rated Voltage(V~):	110-120	110-120
Foaming agent:	Cyclopentane	Cyclopentane
Storage Volume(L):	600/610	650/810
Net Weight(kg):	220/225	235/245
Overall Dimension (mm)(LxWxH):	1815x675x1220/ 1815x675x1210	1825x680x1420/ 1825x680x1410

Major Parameters

Model:	ARC-300L	ARC-400L	ARC-500L
Rated Input Power(W):	355	400	425
Rated Current(A):	3.3	3.7	4.0
Refrigerant&Injection(g):	R290(130)	R290(140)	R290(140)
Refrigeration Temperature(°C)(°F):	0-12(32-53.6)	0-12(32-53.6)	0-12(32-53.6)
Rated Frequency(Hz):	60	60	60
Type of Climate:	4	4	4
Protected Mode:	I	I	I
Lamp Power(W):	7(LED)	10.2(LED)	14(LED)
Rated Voltage(V~):	110-120	110-120	110-120
Storage Volume(L):	350	500	500
Net Weight(kg):	135	160	190
Overall Dimension (mm)(LxWxH):	650x805x1445	900x805x1445	1200x805x1445

Model:	ARC-270Y/ ARC-270Z	ARC-370Y/ ARC-370Z	ARC-470Y/ ARC-470Z
Rated Input Power(W):	390	400	420
Rated Current(A):	3.7	3.7	4.0
Refrigerant&Injection(g):	R290(140)	R290(140)	R290(135)
Refrigeration Temperature(°C)(°F):	0-12(32-53.6)	0-12(32-53.6)	0-12(32-53.6)
Rated Frequency(Hz):	60	60	60
Type of Climate:	4	4	4
Protected Mode:	I	I	I
Lamp Power(W):	5(LED)	18(LED)	21(LED)
Rated Voltage(V~):	110-120	110-120	110-120
Foaming agent:	Cyclopentane	Cyclopentane	Cyclopentane
Storage Volume(L):	295	400	500/510
Net Weight(kg):	135	155	182
Overall Dimension (mm)(LxWxH):	915x675x1220/ 915x675x1210	1215x675x1220/ 1215x675x1210	1515x675x1220/ 1515x675x1210

General

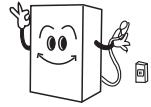
1. Top brand fully enclosed compressor is used on the standing refrigerator. The refrigerant R290 is of an environmentally friendly agent. It features a rational configuration of refrigeration system with blower forced air cooling. The temperature is quite even inside the refrigerator.
2. Triple hollow transparent glasses are used on door and body. It features an artistic and elegant appearance, perfect perspective and easy access.
3. It has a wide application in department store and house as well as the meeting room and sitting room.

Structure and Parts



Handle and Erection

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

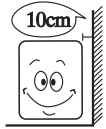


Dry place
Always locate the refrigerator at a dry place.



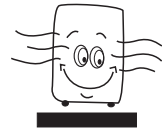
Sufficient space

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



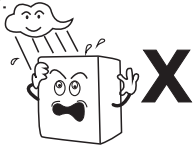
Well ventilation

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.

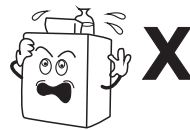


Handle and Erection

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.

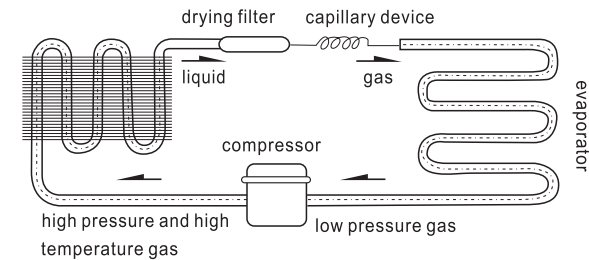


Stable location
Unpacking and locate the refrigerator on a flat and solid place.

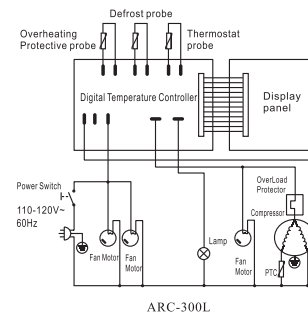


Principle of Refrigeration System and Electric Circuit Diagram

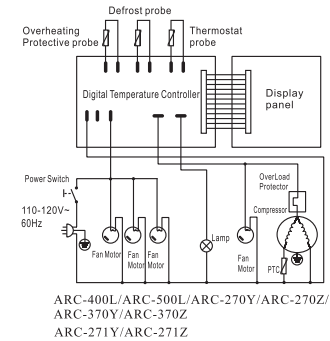
The principle of compression refrigeration consists of “compression”, “condensation”, “throttling” and “vaporization”. The compression is undertaken by compressor, the condensation is completed by condenser, the throttling valve is executed by capillary and the vaporization is implemented by evaporator. When the coolant is circulating in the closed refrigeration system, the compressor sucks coolant, which has absorbed 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.



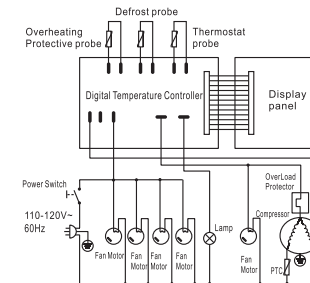
Circuit Diagram



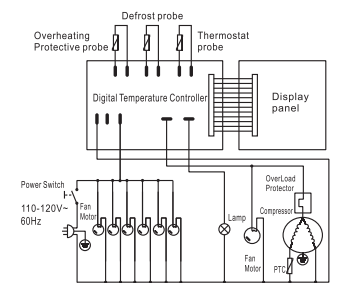
ARC-300L



ARC-400L/ARC-500L/ARC-270Y/ARC-270Z/
ARC-370Y/ARC-370Z
ARC-271Y/ARC-271Z



ARC-371Y/ARC-371Z/ARC-471Y/ARC-471Z
ARC-470Y/ARC-470Z



ARC-570Y/ARC-570Z/ARC-571Y/ARC-571Z

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 (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.

Use soft cloth to wipe the box.

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 lamp 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.

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 give the refrigerator surface a flush otherwise current leakage might be resulted.



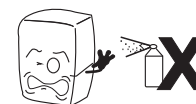
Preparation and Power Supply

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.



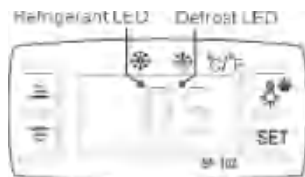
Use and Caution

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.

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 by turning off/illumination Control/Value Storing /Self Testing /Parameter Locking

Front panel operation

1、Set temperature

Press button, the set temperature is displayed.

Press or 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.

Troubleshooting of digital control

Fault code	Causes	Solutions
EE1	open circuit or short circuit of temperature probe	Check if the plug on mainboard is loosened or not, or change temp. probe;
EE2	open circuit or short circuit of defrosting probe	Check if the plug on mainboard is loosened or not, or change defrosting probe;
EE3	open circuit or short circuit of overheating probe	Check if the plug on mainboard is loosened or not, or change overheating probe;
EE4	overheating probe starts protecting program 58℃(136.4°F)	1. Too much dust on condenser(Clean the condenser) 2. Condenser motor stops working (Repair or change the motor) 3. The unit is too close to the wall. (Keep product away from the wall 50cm at least) 4. Ambient temp. is too high. (Make sure ambient temp. stays within the range as rating label specified.)

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.

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.

WARNING: Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.

WARNING: Do not use mechanical devices of 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.