

J Series Refrigerators & Freezers Installation and Operation Manual

Please read this manual completely before attempting to install or operate this equipment.

BUFFET DISPLAY TABLES

JBT-36-N

JBT-48-N

JBT-60-N

JBT-72-N

SANDWICH/SALAD UNITS

JST-36-N

JST-48-N

JST-60-N

JST-72-N

UNDERCOUNTER REFRIGERATORS

JUR-36-N6 JUR-36S-N6 JUR-48-G-N

JUR-48-N6 JUR-48S-N6 JUR-60-G-N JUR-60-N6 JUR-60S-N6 JUR-72-G-N

JUR-72-N6 JUR-72S-N6

UNDERCOUNTER FREEZERS

JUF-36-N JUF-36S-N

JUF-48-N JUF-48S-N

JUF-60-N JUF-60S-N

DUAL TEMP. UNDERCOUNTERS

JURF-48-N

JURF-60-N

JURF-72-N



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SPECIFICATIONS

Dual Temp. Undercounters

MODEL	COM H.P.	V/Hz	REFRIGERANT	AMPS	WEIGHT
JURF-48-N	1/3	115V/60Hz	R-290	2.5	200 lbs.
JURF-60-N	1/4	115V/60Hz	R-290	2.8	220 lbs.
JURF-72-N	1/3	115V/60Hz	R-290	3.5	275 lbs.

Buffet Display Tables

MODEL	COM H.P.	V/Hz	REFRIGERANT	AMPS	WEIGHT
JBT-36-N	1/3	115V/60Hz	R-290	3.66	152 lbs.
JBT-48-N	1/3	115V/60Hz	R-290	3.76	179 lbs.
JBT-60-N	3/8	115V/60Hz	R-290	5.46	200 lbs.
JBT-72-N	3/8	115V/60Hz	R-290	5.65	234 lbs.

Sandwich / Salad Units

MODEL	COM H.P.	V/Hz	REFRIGERANT	AMPS	WEIGHT
JST-36-N	1/4	115V/60Hz	R-290	2.4	157 lbs.
JST-48-N	1/4	115V/60Hz	R-290	3.2	191 lbs.
JST-60-N	1/3	115V/60Hz	R-290	3.45	213 lbs.
JST-72-N	1/3	115V/60Hz	R-290	3.2	254 lbs.

SPECIFICATIONS

Undercounter Refrigerators

MODEL	COM H.P.	V/Hz	REFRIGERANT	AMPS	WEIGHT
JUR-36-N6	1/6	115V/60Hz	R-600a	1.7	157 lbs.
JUR-48-N6	1/5	115V/60Hz	R-600a	1.7	184 lbs.
JUR-60-N6	1/5	115V/60Hz	R-600a	2	205 lbs.
JUR-72-N6	1/5	115V/60Hz	R-600a	2	239 lbs.

Undercounter Refrigerators - Narrow

MODEL	COM H.P.	V/Hz	REFRIGERANT	AMPS	WEIGHT
JUR-36S-N6	1/6	115V/60Hz	R-600a	1.7	145 lbs.
JUR-48S-N6	1/6	115V/60Hz	R-600a	1.7	160 lbs.
JUR-60S-N6	1/5	115V/60Hz	R-600a	2	180 lbs.
JUR-72S-N6	1/5	115V/60Hz	R-600a	2	205 lbs.

Undercounter Refrigerators - Glass Door

MODEL	COM H.P.	V/Hz	REFRIGERANT	AMPS	WEIGHT
JUR-48-G-N	1/4	115V/60Hz	R-290	2.3	184 lbs.
JUR-60-G-N	1/4	115V/60Hz	R-290	2.3	205 lbs.
JUR-72-G-N	1/4	115V/60Hz	R-290	2.3	239 lbs.

Undercounter Freezers

MODEL	COM H.P.	V/Hz	REFRIGERANT	AMPS	WEIGHT
JUF-36-N	1/3	115V/60Hz	R-290	3	157 lbs.
JUF-48-N	1/3	115V/60Hz	R-290	2.6	184 lbs.
JUF-60-N	3/8	115V/60Hz	R-290	4.4	205 lbs.

Undercounter Freezers - Narrow

MODEL	COM H.P.	V/Hz	REFRIGERANT	AMPS	WEIGHT
JUF-36S-N	1/3	115V/60Hz	R-290	2.8	145 lbs.
JUF-48S-N	3/8	115V/60Hz	R-290	3.8	160 lbs.
JUF-60S-N	3/8	115V/60Hz	R-290	3.8	180 lbs.

SERIAL NUMBER

The serial number is on the rating label located on the left interior wall. Please retain the unit's serial number for service purpose.

NOTICE

- This equipment 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 instructions concerning the use of this equipment and the hazards involved by a person responsible for their safety.
- The special instructions for those persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge are not included in this manual and are not required to be included.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.

This manual uses the following safety symbols. These safety symbols with the words of **DANGER**, **WARNING** or **CAUTION** alert users of the potential hazards that could cause injury or even death.

≜ DANGER	Indicates hazards of death or serious injury, if the instructions are not followed.
≜WARNING	Indicates dangers of death or serious injury, if the instructions are not followed.
∆ CAUTION	Indicates risks of personal injury or material damage, if the instructions are not followed.

FOR HYDROCARBON REFRIGERATION UNITS

MARNING

This unit uses R-290 (propane), or R-600a (isobutane) as a refrigerant. These hydrocarbon refrigerants are highly environmentally compatible but also are flammable and combustible. Please read this manual thoroughly before installing and operating the unit. Please take cautious measures to avoid risk of fire or explosion.

PLEASE REFER TO THE LABEL INSIDE THE CABINET TO CHECK REFRIGERATION TYPE AND VOLUME.



DANGER - Risk of fire or explosion. Flammable refrigerant used. Do not use mechanical devices to defrost refrigerator. Do not puncture refrigerant tubing.



DANGER - Risk of fire or explosion. Flammable refrigerant used. To be repaired only by trained service personnel. Do not puncture refrigerant tubing.



CAUTION - Risk of fire or explosion. Dispose of properly in accordance with federal or local regulations. Flammable refrigerant used.



CAUTION - Risk of fire or explosion. Flammable refrigerant used. Consult repair manual/owner's guide before attempting to service this product. All safety precautions must be followed



CAUTION - Risk of fire or explosion due to puncture of refrigerant tubing; follow handling instructions carefully. Flammable refrigerant used.

WARNING



- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- Do not damage the refrigerant circuit.
- Do not use electrical appliances inside the food storage compartments of the appliance unless they are of a type recommended by the manufacturer.

FOR HYDROCARBON REFRIGERATION UNITS

↑ WARNING

- Handle the unit with care in order to avoid any serious damage to the refrigeration system.
- The refrigerant tubing, condenser, and evaporator coils are prone to damage while handling, moving, installing, and cleaning the unit, which may lead to fire or even explosion.
- Refrigerant squirting out of the pipes could ignite or cause an eye injury. If a leak
 is detected, avoid any naked flames or potential sources of ignition and air the
 room in which the appliance is located.
- To avoid the creation of a flammable gas-air mixture from a leaking refrigerating circuit, the size of the room in which the appliance is placed depends on the amount of refrigerant used. The room must be 35.31 ft³ (1m³) in size for every 0.28oz(8g) of R-600a refrigerant inside the appliance. The amount of refrigerant in your particular appliance is shown on the label inside the cabinet.



This appliance contains a small amount of propane (R-290) or isobutane (R-600a) refrigerant, a natural gas with high environmental compatibility, but it is also combustible. When transporting and installing the appliance, ensure that no part of the refrigerating circuit is damaged.

- Never start up an appliance showing any signs of damage. When in doubt, contact a qualified service professional.
- In case of any hazardous activities such as fire or explosion, move the unit away from any source of ignition to a well ventilated area.
- Further service and repair must be done by a qualified technician who is familiar
 with the safety standards, and also has thorough understanding and knowledge
 of the flammable refrigerants.
- Any individuals handling these units must be equipped with proper personal protection and equipment and follow applicable safety measures and precautions to avoid risk of fire or explosion.

SAFETY PRECAUTIONS

To avoid any risk of fire, explosion, electric shock, personal injury, material damage or incorrect use of the appliance, be sure to observe the following safety precautions (After reading these owner's manual instructions, please keep the manual booklet in a safe place for reference. Remember to hand it over to any subsequent owners).

MARNING

- The unit must be installed and located in accordance with the manufacturer's installation instructions.
- Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.
- Repairs and replacement work must be performed by a qualified and authorized service professional using only genuine replacement parts (Component parts shall be replaced with like components).
- Do not use an extension cord or an adapter plug. Because of the potential safety hazards under certain conditions, we strongly do not recommed any use of an extension cord or an adapter plug.
- Do not, under any circumstance, cut or remove the ground prong from the power cord. For personal safety, this appliance must be properly grounded.
- Do not store volatile and flammable substances in the refrigerator. The storage of benzene, thinner, alcohol, ether, LP gas, or other explosive substances may cause an explosion.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this appliance as well as any other appliances.
- The appliance is not intended for use by children without supervision.
- Do not allow children to climb, stand, or hang on the refrigerator doors or shelves in the refrigerators. They could damage the refrigerator and seriously injure themselves.
- To prevent suffocation and entrapment hazards to children, remove the doors and seals from the refrigerator before disposing of it or discontinuing its use.

INSTALLATION & USAGE

MARNING

- Do not install the unit in a damp place where it could be splashed with water. Incorrect insulation of the electrical parts may cause fire or electric shock.
- Do not plug several appliances into the same sockets. This could cause fire due to overheating.
- Keep the power plug away from the rear of the cabinet. A damaged power plug may cause fire due to overheating.
- Do not spray water directly to the interior or exterior of the appliance. There is a risk
 of fire or electric shock.
- Do not place any containers filled with water on top of the appliance. If the water spills onto any electrical parts, it may lead to fire or electric shock.
- Do not attempt to repair, disassemble or alter the appliance. It may cause fire or abnormal operations which may lead to injury.
- Unplug the refrigerator before making repairs, replacing a light bulb, or cleaning.
- Plug into a grounded 3-prong outlet. Do not remove the ground prong.

ACAUTION

- Do not store too much food in the appliance. When you open the door, an item may fall out and cause personal injury or material damage.
- Do not put bottles or any kind of glass in the freezer. The container may break and cause personal injury.
- Do not disconnect the power cord by pulling on it. This may disconnect a wire and cause a short circuit.

INSTALLATION & USAGE

CAUTION

- There is a risk of death from suffocation if a child puts the packing materials on his or her head.
- Do not store any articles on top of the appliance. Articles may fall while opening or closing the door, and could cause personal injury or material damage.
- Do not store pharmaceutical products, scientific materials or other temperature-sensitive products in the refrigerator. Products that require strict temperature controls must not be stored in the refrigerator.
- Do not let children hang on the door.
- Do not touch any cold surfaces or food containers in the freezer with damp or wet hands. Skin may stick to these extremely cold surfaces and may cause frostbite.
- Remove any foreign matter from the power plug pins. Otherwise, there is a risk of fire.
- Do not insert your hand into the bottom area of appliance. Any sharp edges may cause personal injury.
- After unplugging the appliance, wait at least five minutes before plugging it back in.
 Abnormal operation of the freezer may cause material damage.
- If the appliance is not used for a long period of time, unplug it from the power supply. Any deterioration in the insulation may cause fire.
- Do not let children touch or play with the control panel on the front of the appliance.
 - Do not allow children to play with this appliance.
- Do not stand or lean on the base panel, pull-out parts, or doors.
- Repairs and maintenance of the appliance should only be performed by a qualified technician. Incorrect repairs done by an unqualified person may be a potential source of danger that could have critical consequences for the user of the appliance.
- Never put ice cubes or ice pops straight from the freezer into your mouth. The low temperature may cause cold burns.

PROPER DISPOSAL OF OLD APPLIANCE

For environmental purposes, refrigeration appliances must be properly disposed. This applies to your old appliance, and at the end of its service life, for your new appliance as well.

MARNING

Before disposing of old appliances, make them inoperable. Remove plug from mains, severe the power cable, and remove or destroy any snap or latch closures. This eliminates the danger of any children locking themselves into the appliance (danger of suffocation) or placing themselves into other life-threatening situations.

- The appliance may not be disposed of with domestic waste or bulky refuse.
- The refrigerant circuit, especially the heat exchanger at the back of the appliance, may not be damaged.
- Information concerning collection schedules or locations can be obtained from the local disposal authorities.

ACAUTION

The refrigeration used in refrigerator/freezer and the gases in the insulation material require special disposal procedures. Ensure that none of the pipes on the back of the appliance are damaged prior to disposal.

BEFORE YOU CALL FOR SERVICE

Before contacting our Service Department, review the detailed troubleshooting tips in the Owner's manual.

- 1. Try to remedy the problem. Please read the "Troubleshooting Guide" section.
- 2. Restart the appliance to check whether the fault repeats. If the malfunction persists, switch off the appliance and try again after an hour.
- 3. If the malfunction still persists, then contact our Customer Service, specifying:
 - The nature of the problem
 - The appliance model number and serial number
 - Your full address, telephone number and area code

NOTICE TO CUSTOMER

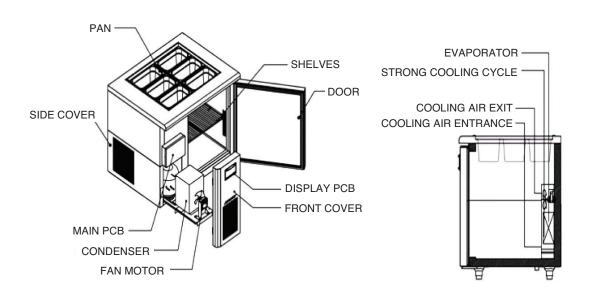
Loss or spoilage of products in your refrigerator/freezer is not covered by warranty. In addition to following recommended installation procedures, you must run the refrigerator/freezer 24 hours prior to usage.

INSTALLATION

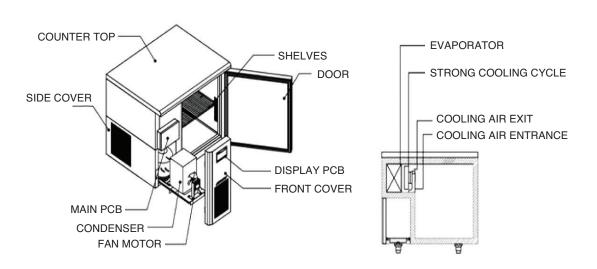
- **1. LOCATION** Allow adequate space and install the refrigerator on a firm and level floor. If the appliance is not level, there may be unusual noises and poor cooling performance.
- 2. GOOD AIR CIRCULULATION Be sure to avoid any partition and object which may stop the air flow and that air space is allowed to flow to the rear and/or sides of the unit between the refrigerator and the back wall. Insufficient space causes vibration noise, inefficient refrigeration, damage to the refrigeration system, and the waste of electricity (Turbo Air recommends that the rear of the unit should be no less than 5 inches from the wall).
- 3. PLACE ON STRONG FLOOR Be sure that the floor on which the unit is to be installed is strong enough to support the total weight of the cabinet and any other contents, before starting the installation.
- **4. DO NOT PLACE NEAR HEAT** Be sure to avoid hot corners and other locations such as near stoves. High ambient temperature will result in much lower cooling efficiency.
- **5. INDOOR USAGE ONLY** Be sure to install this unit indoors only, to prevent getting wet from the rain. Do not install the refrigerator in locations where the temperature is over 100°F (43°C) or below 50°F (10°C).
- **6. STABILIZING** Make sure the unit is installed in a stable condition with the front wheels locked while in use.
- 7. **LEVELING** Be sure that the unit levels from the front to the back and side to side.
- **8. UNIT SHOULD BE ON DEDICATED OUTLET** Plug the refrigerator into a wall socket exclusively for this appliance. Do not run on extension cord.
- 9. THE ELECTRICAL PLUG MUST BE ACCESSIBLE WITHOUT MOVING THE UNIT.
- 10. WHEN POSITIONING FOOD FOR STORAGE, A MAXIMUM OF ONE SHELF MAY BE LOADED LESS THAN 110lb (50kg), BUT DO NOT ALLOW LOADS TO OVER HANG FROM THE FRONT AND REAR EDGES OF SHELVES.

PART NAME AND FUNCTION

1. THE STRUCTURE OF SANDWICH / SALAD UNITS



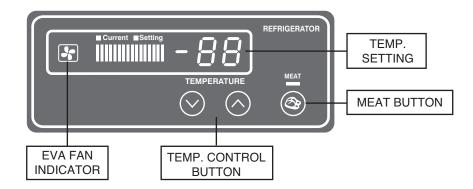
2. THE STRUCTURE OF UNDERCOUNTERS

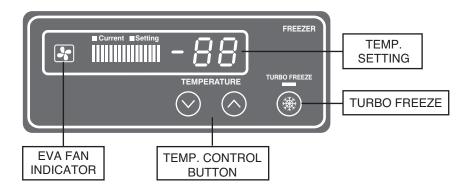


DISPLAY PANEL OF REFRIGERATOR AND FREEZER

BASIC OPERATION

- 1. Plug in and turn on the power switch located on the top side of the unit front cover. The display panel will be lighted and make a beep sound. The compressor will begin to run.
- 2. The default temperature setting is No. "4".
- 3. The compressor is automatically cycled by the electronic controller (PCB).
- 4. The defrost cycle is automatically controlled by the PCB.
- 5. Set level toward "1" for higher temperature and "8" for lower temperatures.
- Good air flow in refrigerator unit is critical.
 Be careful to load product so that it neither presses against the back wall, nor reaches within four inches from the evaporator compartment.
 - By pushing the up/down button, you can set the inside temperature.
 - If you want lower temperature push the down button to be lighted lower level numbers.





- When the inside temperature is lower than -49°F (-45°C), the panel will display 'L []'



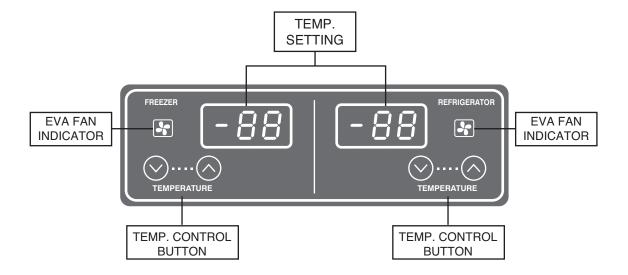
and higher than 64.4°F (18°C), the panel wil display '\!\!\!\...



DISPLAY PANEL OF DUAL TEMP

BASIC OPERATION

- 1. Plug in and the display panel will be lighted and make a beep sound. The compressor will begin to run.
- 2. The compressor is automatically cycled by the electronic controller (PCB).
- 3. The defrost cycle is automatically controlled by the PCB.
- 4. Good air flow in freezer/refrigerator unit is critical.
 Be careful to load product so that it neither presses against the back wall, nor reaches within four inched from the evaporator compartment.
 - By pushing the up/down button, you can set the inside temperature.
 - If you want lower temperature push the down button to be lighted lower level numbers.



- When the inside temperature is lower than -49°F (-45°C), the panel will display ' []





CAUTION

MARK AND NOTE



WARNING

It is dangerous for people

CAUTION

It will cause injury to human or lost of property



PROHIBITION



NO SCREW



NO TOUCH



OBEY

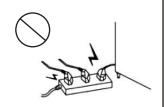


PLUG OFF



Be sure not to put more plug in the socket.

- Overheated wire will cause fire!

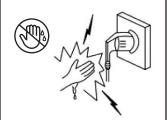


Please use a dedicated socket!



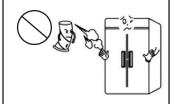
Wet hands off the power

- Life is in danger.



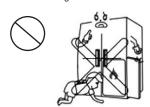
Be sure not to spray flammable aerosol around the product!

- Explosion, fire etc.



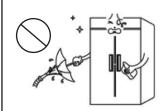
Be sure not to allow children to enter the product!

- Life is in danger.



Please do not water product!

- Fire, electric shock etc.

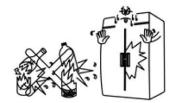




Do not put bottled drinks in the refrigerator for a long time.

- Frost crack

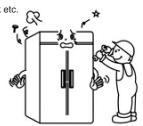




Please do not disassemble, repair or alter products!

- Fire, electric shock etc.





Be sure not to touch the power when the gas leak.

- Leave the scene quickly after opening the windows.



Disassemble all the switch gear before scrap.

- It hides danger when the children play in the unit.

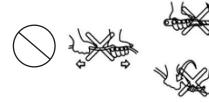






Please do not damage the power cord.

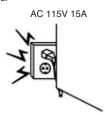
- Fire, electric shock etc.



Please do not squeeze the power so that it is damaged.

- Fire, electric shock etc.

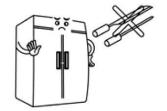




Be sure not to use abrasive cleaner.

- It will scratch the surface of product.





Be sure to avoid any partition and object which may stop air flow.

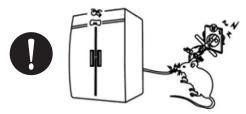






Please choose the environment without rat to set the product.

- Damage the power that will cause fire.



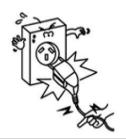
When the abnormal situation occurs, unplug the power then contact the nearest service center.



Do plug the power without dragging!

- Wire breakage





Please ask more people to carry the unit.

- No tilt.





Be sure not to disassemble or replace the power which is damaged.

 Please contact the after sale service or ask a professional repairman in time.





No object on top of unit.

- Electric shock, fire, explosion etc.

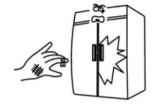




Do hold the door handle to open or close the door.

- It may cause injury when operator hold other parts.





Be sure not to put too many objects in the refrigerator.

- The objects will fail to hit the operator with opening the door.







Be sure not to put pharmaceuticals and chemicals.

- It will result in an explosion.



Be sure to avoid the children touching the unit.

- It is dangerous.



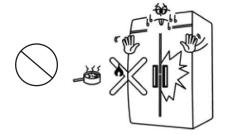


Please keep the plug clean.

- The dust and water will cause short circuit.

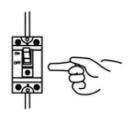


Be sure not to put hot food in the unit.



Please use the leakage protector to prevent the short circuit.





Be sure not to plug in the loose socket.

- Fire, electric shock etc.





Not touch the top and bottom of unit.

- It will cause injury.





Be sure not to store volatiles and combustibles.

- It is dangerous.





INSTALLATION AND OPERATION

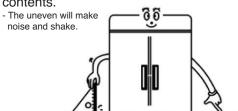
INSTALLATION NOTE

Be sure to set the unit in door.

- To prevent damage, leakage.

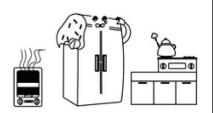


Be sure that the location be chosen has a strong enough floor to support total weight of the cabinet and other contents.



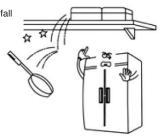
Be sure to avoid corrosive environment.

- It will shorten the life of the unit.



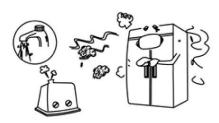
Be sure no object is on the top of the product.

- The objects will fall to hit the unit.



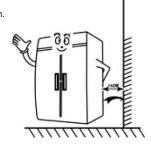
Be sure to avoid damp and dusty environment.

- Electric shock.



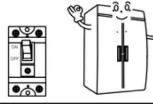
Be sure the unit is away from the wall at least 15cm.

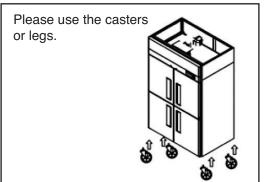
- Good air circulation.



Be sure the power cord is connected to the proper voltage.

- The product is special for 110V
- It can't be used with the voltage of 220V
- Please connect the power with leakage protector.





110V

CLEANING - UNPLUG THE REFRIGERATOR

- To maintain proper refrigerator performance, the condenser coil must be free of dust, dirt and grease.
- This will require periodic cleaning. Condenser fins should be cleaned at least every three months (90days) or needed.



CLEANING THE INTERIOR AND EXTERIOR

- Please clean the product with a soft damp cloth. When the product is too dirty, please use the cloth with a little of neutral detergent.
- Pull out the shelves to clean.
- Be sure not to use thinner, oil, water, iron brush, abrading agent, hydrochloric acid and other things to clean.



CLEANING THE GASKET

- Much grease, food wastes etc will destroy the surface of gasket, especially the bottom side.
- Please use the cloth with neutral detergent to wipe the gasket.



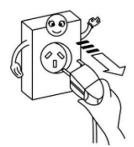
CHECK AFTER CLEANING

- Check the unit again for safety.
- Check that the unit is operating properly.
- Make sure both power and plug are normal.
- Please read the operation manual carefully before operating the product.
- Please make sure the product is well sealed.
- Please place the product for a while to make it dry before use.

PRECAUTIONS

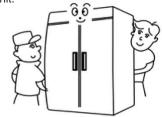
THE UNIT WITHOUT USE FOR A LONG TIME

- Please empty the refrigerator then unplug it.
- Please lock the door to prevent the man from entering the unit.



TRANSIT OR MOVE

- Please unplug the refrigerator before transit or move
- Please ask more people to work when the product is heavier.
- Please reread the manual after moving then use the unit.



TROUBLESHOOTING

SYMPTOMS	CAUSES	SOLUTIONS
Cooler is freezing food.	Thermostat set too cold.	Turn the thermostat setting to a higher temperature position
The unit does not refrigerate at all.	There is a power connection failure problem.	Check the power cord and plug in correctly.
The unit does not refrigerate well.	 The unit is in sunlight or near a heating device. The unit contains hot food or too much food. The unit door is opened too frequently or left open too long. The temp. dial is not on the correct position. The condenser is clogged. 	 Check the installation location. Check the condition of stored food. Check the position of the temp control dial.
There is a loud noise.	The floor is too weak or the leveling feet are set incorrectly. The backside of the unit is too close to the wall.	Check the installation.
There are dewdrops on the unit exterior.	High-moisture air can produce dewdrops during rainy seasons.	Wipe with a dry cloth.
There are dewdrops on the unit interior.	The door is opened too frequently or left open too long. Damp food is stored.	Keep the door closed to remove dewdrops.
The door does not close tightly.	 The door is bent. The unit is not levelde off. The door gasket has come off.	Level the unit again. Reposition the gasket.

The following points are not malfunctions:

- A water-flowing sound can be heard when the compressor stops. This is the sound of REFRIGERANT flowing.
- The compressor does not run during the defrost cycle.

Note: Formation of condensation on and around the edge of the door and the front side of the cabinet is normal. Gurgling noises inside the refrigerating circuit are normal.

STAINLESS STEEL EQUIPMENT CARE AND CLEANING

CAUTION: Do not use any steel wool, abrasive or chlorine based products to clean stainless steel surfaces.

There are three basic things which can break down your stainless steel's passivity layer and allow corrosion to occur.

- 1) Scratches from wire brushes, scrapers, and steel pads are just a few examples of items that can be abrasive to stainless steel's surface.
- 2) Deposits left on your stainless steel can leave spots. You may have hard or soft water depending on what part of the country you live in. Hard water can leave spots. Hard water that is heated can leave deposits if left to sit too long. These deposits can cause the passive layer to break down and rust your stainless steel. All deposits left from food prep or service should be removed as soon as possible.
- 3) Chlorides are present in table salt, food, and water. Household and industrial cleaners are the worst type of chlorides to use.

8 step that can help prevent rust on stainless steel:

1. Using the correct cleaning tools

Use non-abrasive tools when cleaning your stainless steel products. The stainless steel's passive layer will not be harmed by soft cloths and plastic scouring pads. Step 2 tells you how to find the polishing marks.

2. Cleaning along the polish lines

Polishing lines or "grain" are visible on some stainless steels. Always scrub parallel to visible lines on some stainless steels. Use a plastic scouring pad or soft cloth when you cannot see the grain.

3. Use alkaline, alkaline chlorinated or non-chloride containing cleaners

While many traditional cleaners are loaded with chlorides, the industry is providing an ever increasing choice of non-chloride cleaners. If you are not sure of your cleaner's chloride content, contact your cleaner supplier. If they tell you that your present cleaner contains chlorides, ask if they have an alternative. Avoid cleaners containing quaternary salts as they can attack stainless steel, causing pitting and rusting.

STAINLESS STEEL EQUIPMENT CARE AND CLEANING

4. Water Treatment

To reduce deposits, soften the hard water when possible. Installation of certain filters can remove corrosive and distasteful elements. Salts in a properly maintained water softener can be to your advantage. Contact a treatment specialist if you are not sure of the proper water treatment.

5. Maintaining the cleanliness of your food equipment

Use cleaners at recommended strength (alkaline, alkaline chlorinated or non-chloride). Avoid build-up of hard stains by cleaning frequently. When boiling water with your stainless steel equipment, the single most likely cause of damage is chlorides in the water. Heating nay cleaners containing chlorides will have the same damaging effects.

6. Rinse

When using chlorinated cleaners you must rinse and wipe dry immediately. It is better to wipe standing cleaning agents and water as soon as possible. Allow the stainless steel equipment to air dry. Oxygen helps maintain the passivity of the film on stainless steel.

7. Hydrochloric acid (muriatic acid) should never be used on stainless steel.

8. Regularly restore/passivate stainless steel.

Recommended cleaners for certain situation/environments of stainless steel:

- A) Soap, ammonia and detergent medallion applied with a cloth or sponge can be used for routine cleaning.
- B) Arcal 20, Lac-O-Nu Ecoshine provides barrier film for fingerprints and smears.
- C) Cameo, Talc, Zud First Impression is applied by rubbing in the direction of the polished lines for stubborn stains and discoloring.
- D) Easy-off and De-Grease it oven aid are excellent for removals on all finishes for grease-fatty acids, blood and burnt-on foods.
- E) Any good commercial detergent can be applied with a sponge or cloth to remove grease and oil.
- F) Benefit, Super Sheen, Sheila Shine are good for restoration/passivation.

TWO (2) YEAR WARRANTY

Warranty Claims...

All claims for parts or labor must be made directly through Turbo Air. All claims should include: model number of the unit, the serial number of the cabinet, proof of purchase, date of installation, and all pertinent information supporting the alleged defect. In case of compressor replacement under warranty, either compressor or compressor tag must be returned to Turbo Air along with above listed information. Failure to comply with warranty policies will result in voiding claims.

Two-Year Parts & Labor Warranty...

Turbo Air warrants all new refrigerated components, the cabinet and all parts, to be free from defects in materials or workmanship, under normal and proper use and maintenance service as specified by Turbo Air and upon proper installation* (indoor building only) and start-up in accordance with the instruction packet supplied with each Turbo air unit. Turbo Air's obligation under this warranty is limited to a period of two (2) years from the date of original installation or twenty seven (27) months after shipment date from Turbo Air, whichever occurs first. Any part, covered under this warranty, that is by Turbo Air to have been found defective within two (2) years of original installation or twenty seven (27) months after shipment date from manufacturer, whichever occurs first, is limited to the repair or replacement, including labor charges, of defective parts or assemblies. The labor warranty shall include standard straight time labor charges only and reasonable travel time, as determined by Turbo Air. (*Installation in unstable, mobile, and enclosed area may not be considered as proper installation.)

Additional Three-Year Compressor Warranty...

In addition to the two (2) year warranty stated above, Turbo Air warrants its hermetically sealed compressor to be free from defects in both material and workmanship under normal and proper use and maintenance service for a period of three (3) additional years from the date of original installation, but not to exceed five (5) years and three (3) months after shipment from the manufacturer. Compressor determined by Turbo Air to have been defective within this extended period will at Turbo Air's discretion, be either repaired or replaced with a compressor or compressor parts of similar design and capacity. The three (3) year extended compressor warranty applies only to hermetically sealed parts of the compressor and does not apply to any other parts or components, including, but not limited to, cabinet, paint finish, temperature control, refrigerant, metering device, driers, motor starting equipment, fan assembly and/or other electrical components.

R-290/R-600a Hydrocarbon Compressor Warranty...

The two-year compressor warranty detailed above will be void if the following procedure is not carefully adhered to:

- This system may contain R290 refrigerant and polyol ester lubricant.
 The polyol ester lubricant has rapid moisture absorbing qualities. If it is exposed to ambient conditions for an extended period, the lubricant must be replaced.
- Drier replacement is very important and must be changed when a system is opened for servicing.Drier with XH-7 molecular sieve or better must be used.
- Micron level vacuums must be achieved to ensure low moisture levels in the system. 500 microns or lower must be maintained.
- Compressor must be obtained through Turbo Air, unless otherwise specified in writing, through Turbo Air's warranty department.

WARRANTY INFORMATION

What is Not Covered by This Warranty...

Turbo Air's sole obligation under this warranty is limited to either repair or replacement of parts, subject to the additional limitations below. This warranty neither assumes nor authorizes any person to assume obligations other than those expressly covered by this warranty.

NO CONSEQUENTIAL DAMAGES. TURBO AIR IS NOT RESPONSIBLE FOR ECONOMIC LOSS; PROFIT LOSS; OR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOSSES, OR DAMAGES ARISING FROM FOOD OR PRODUCT SPOILAGE REGARD-LESS OF WHETHER OR NOT THEY RESULT FROM REFRIGERATION FAILURE.

WARRANTY IS NOT TRANSFERABLE. This warranty is not assignable and applies only in favor of the original purchaser/user to whom delivered. ANY SUCH ASSIGNMENT OR TRANSFER SHALL VOID THE WARRANTIES HEREIN AND SHALL VOID ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR LABOR COVERAGE FOR COMPONENT FAILURE OR OTHER THE WARRANTY PACKET PROVIDED WITH THE UNIT.

Turbo Air will not be held responsible for the following external factors: ALTERATION, NEGLECT, ABUSE, MISUSE, ACCIDENT, DAMAGE DURING TRANSIT OR INSTALLATION, FIRE, FLOOD, ACTS OF GOD, OR IMPROPER ELECTRICAL CONNECTIONS.

TURBO AIR IS NOT RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF FAILED OR DAMAGED COMPONENTS RESULTING FROM ELECTRICAL POWER FAILURE, THE USE OF EXTENSION CORDS, LOW VOLTAGE, OR VOLTAGE DROPS TO THE UNIT.

Use of NON-OEM parts without manufacturer's approval may void cabinet warranty. NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE; THE FOREGOING WARRANTIES ARE EXCLUSIVE AND EXPRESSLY GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, IMPLIED OR STATUTORY. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

Warranty information card must be submitted via post mail or electronically on our website at www.tur-boairinc.com/registration within 7 days from the purchase date. Failure to comply may result in your warranty being voided.

All coverage provided within this warranty is applicable only to the United States, including Alaska and Hawaii, and Canada, excluding U.S. Territories; limited parts only warranty in U.S. Territories. Turbo Air is not responsible for any warranty claims made on products sold or used outside the fifty states of the United States.

The extended warranty period specific to each Turbo Air product applies to all units sold by Turbo Air starting December 1, 2016.

NOTE





MAIL CARD IMMEDIATELY OR GO TO ONLINE REGISTRATION AT <u>www.turboairinc.com/registration</u>

Company Name:		
Type of Business:		
Model Number:		
Serial Number:		
Phone Number:	, Email:	
Address:		
	(
(City)	(State)	(Zip Code)
I,hereby inform and certify to Turbo Air Inc. (Manufacturer) that the product model		
and serial number mentioned above was purchase	ed on fr (Date of Purchase)	om (Name of the Dealer)
	4184 E. C	Turbo Air Inc.

1184 E. Conant St., Long Beach, CA 90808 Toll Free: 1-800-381-7770

Fax: 310-900-1033

Email: warranty@turboairinc.com



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