REFRIGERATOR MANUFACTURER

Turbo air

Turbo Air Speeds up the Pace of Innovation

Super Deluxe Series Glass Door Merchandisers Refrigerators and Freezers Installation and Operation Manual

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

GLASS DOOR REFRIGERATORS

TGM-5SD*-N#
TGM-7SD*-N#
TGM-10SD*-N#
TGM-12SD*-N#
TGM-15SD*-N#
TGM-15SDH*-N#
TGM-20SD*-N#
TGM-23SD*-N#
TGM-23SD*-N#-L
TGM-23SDH*-N#
TGM-23SDH*-N#-L
TGM-35SD*-N#
TGM-35SDH*-N#
TGM-47SD*-N#
TGM-47SDH*-N#
TGM-72SD*-N#
TGM-72SDH*-N#

GLASS DOOR FREEZERS

TGF-5SD*-N#
TGF-10SD*-N#
TGF-15SD*-N#
TGF-23SD*-N#
TGF-23SD*-N#-L
TGF-23SDH*-N#
TGF-23SDH*-N#-L
TGF-35SD*-N#
TGF-35SDH*-N#
TGF-47SD*-N#
TGF-47SDH*-N#
TGF-72SD*-N#
TGF-72SDH*-N#



(*) - May or may not have suffix from A to Z to denote cosmetic difference.
(#) - May or may not be followed by a letter indicating refrigerant type.
Model with left-hinged door will be followed by suffix L.

WARNING : This product can expose you to chemicals including Bisphenol A(BPA) and Di(2-ethylhexyl)phthalate(DEHP) and Cobalt sulfate heptahydrate, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to *www.P65Warnings.ca.gov*

AVERTISSEMENT :
Cancer ET Troubles de l'appareil reproducteur - *www.P65Warnings.ca.gov*

www.turboairinc.com

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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.
- 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

⚠ WARNING

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 opening 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 damages to the refrigeration system.

- The refrigerant tubing, condenser, evaporator coils are easily 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 open flames or potential sources of ignition and air out the room in which the appliance is standing for several minutes.

- In order to avoid the creation of a flammable gas-air mixture in case of a leak in the refrigerating circuit, the size of the room in which the appliance is placed depends on the amount of refrigerant used. The room must be 35.31ft^3 (1m^3) 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, care should be taken to ensure that no part of the refrigerating circuit are 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 and all technicians handling these units must be equipped with proper personal protection and equipment and follow applicable safety measures and precaution to avoid risk of fire or explosion.

IMPORTANT SAFETY INFORMATION

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)

⚠ WARNING

- 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 professionals only using genuine replacement parts.
- Do not use an extension cord or an adapter plug. Because of the potential safety hazards under certain conditions, we strongly disrecommend any use of an extension cord or an adapter plug.
- Do not, under any circumstances, 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 of children, remove the doors and seals from the refrigerator before disposing of it or discontinuing its use.

IMPORTANT SAFETY INFORMATION

INSTALLATION & USAGE

⚠ WARNING

- 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 overheating and risk start of a fire.
- 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.

⚠ CAUTION

- 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 lollies straight from the freezer into your mouth. The low temperature may cause cold burns.

PROPER DISPOSAL OF OLD APPLIANCE

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

⚠ WARNING

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.

⚠ CAUTION

The refrigeration used in refrigerator/freezer and the gases in the insulation material requires 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 first and you may not need to call for service.
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.

SPECIFICATIONS

Refrigerators

Model	Rating Temp. (℉)	Operating Temp. (℉)	Equipment Class Designation	V/Hz	Refrigerant	AMPS
TGM-5SD*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-600a / 1.41 oz (40 g)	1.4 A
TGM-7SD*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-600a / 1.59 oz (45 g)	1.4 A
TGM-10SD*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-600a / 1.94 oz (55 g)	1.9 A
TGM-12SD*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-600a / 2.12 oz (60 g)	1.9 A
TGM-15SD*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-600a / 2.29 oz (65 g)	2.1 A
TGM-15SDH*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-600a / 2.29 oz (65 g)	2.1 A
TGM-20SD*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-600a / 3.00 oz (85 g)	2.4 A
TGM-23SD*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-600a / 2.82 oz (80 g)	2.7 A
TGM-23SD*-N#-L	38(M)	≥32	VCT, SC, M	(110-120) V~, 60Hz	R-600a / 2.82 oz (80 g)	2.7 A
TGM-23SDH*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-600a / 3.17 oz (90 g)	2.2 A
TGM-23SDH*-N#-L	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-600a / 3.17 oz (90 g)	2.2 A
TGM-35SD*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-290 / 3.53 oz (100 g)	3.3 A
TGM-35SDH*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-290 / 3.17 oz (90 g)	3.3 A
TGM-47SD*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-290 / 3.70 oz (105 g)	3.4 A
TGM-47SDH*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-290 / 2.65 oz (75 g)	6.6 A
TGM-72SD*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-290 / 3.88 oz (110 g)	7.9 A
TGM-72SDH*-N#	38(M)	≥32	VCT, SC, M	(110-120) V~, 60 Hz	R-290 / 4.23 oz (120 g)	7.8 A

Freezers

Model	Rating Temp. (℉)	Operating Temp. (℉)	Equipment Class Designation	V/Hz	Refrigerant	AMPS
TGF-5SD*-N#	0(L)	<32	VCT, SC, L	(110-120) V~, 60 Hz	R-290 / 3.53 oz (100 g)	2.3 A
TGF-10SD*-N#	0(L)	<32	VCT, SC, L	(110-120) V~, 60 Hz	R-290 / 3.70 oz (105 g)	2.6 A
TGF-15SD*-N#	0(L)	<32	VCT, SC, L	(110-120) V~, 60 Hz	R-290 / 4.23 oz (120 g)	5.6 A
TGF-23SD*-N#	0(L)	<32	VCT, SC, L	(110-120) V~, 60 Hz	R-290 / 3.88 oz (110 g)	6.0 A
TGF-23SD*-N#-L	0(L)	<32	VCT, SC, L	(110-120) V~, 60 Hz	R-290 / 3.88 oz (110 g)	6.0 A
TGF-23SDH*-N#	0(L)	<32	VCT, SC, L	(110-120) V~, 60 Hz	R-290 / 4.23 oz (120 g)	5.8 A
TGF-23SDH*-N#-L	0(L)	<32	VCT, SC, L	(110-120) V~, 60 Hz	R-290 / 4.23 oz (120 g)	5.8 A
TGF-35SD*-N#	0(L)	<32	VCT, SC, L	(110-120) V~, 60 Hz	R-290 / 4.23 oz (120 g)	8.1 A
TGF-35SDH*-N#	0(L)	<32	VCT, SC, L	(110-120) V~, 60 Hz	R-290 / 4.59 oz (130 g)	7.6 A
TGF-47SD*-N#	0(L)	<32	VCT, SC, L	(110-120) V~, 60 Hz	R-290 / 5.11 oz (145 g)	10.4 A
TGF-47SDH*-N#	0(L)	<32	VCT, SC, L	(110-120) V~, 60 Hz	R-290 / 4.94 oz (140 g)	9.1 A
TGF-72SD*-N#	0(L)	<32	VCT, SC, L	(110-120) V~, 60 Hz	R-290 / 5.11 oz (145 g) / EA	15.7 A
TGF-72SDH*-N#	0(L)	<32	VCT, SC, L	(110-120) V~, 60 Hz	R-290 / 5.11 oz (145 g) / EA	13.6 A

VCT : VERTICAL CLOSED TRANSPARENT
VCS : VERTICAL CLOSED SOLID
HCT : HORIZONTAL CLOSED TRANSPARENT
HCS : HORIZONTAL CLOSED SOLID

SC : SELF-CONTAINED
M : MEDIUM TEMPERATURE APPLICATION
L : LOW TEMPERATURE APPLICATION

SERIAL NUMBER

The serial number can be found on the data label located inside the unit.
Please retain the unit serial number for service purposes.

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 CIRCULATION -** Be sure to avoid any partition and object which may stop the air flow and that air space is allowed to flow the rear and/or sides of the unit between the refrigerator and the back wall. Insufficient space causes the noise of vibration, inefficient refrigeration, damage to the refrigeration system, and the waste of electricity. (Turbo Air recommends that the rear of the unit would be no less than 5 inches from the wall)
3. **PLACE ON STRONG FLOOR -** Be sure that the floor of 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 make much lower cooling efficiency.
5. **INDOOR USAGE ONLY -** Be sure to install this unit indoor only. It should prohibit getting wet from the rain.
   Do not install the refrigerator in locations where the temperature is over 100°F (38°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. **IF A FOOD STORAGE IS IN POSITION, A MAXIMUM OF ONE SHELF MAY BE LOADED LESS THAN 110*lb* (50*kg*), BUT DO NOT ALLOW LOADS TO OVERHANG FROM THE FRONT AND REAR EDGES OF SHELVES.**
    (For model TGM-5SD*-N#, TGM-7SD*-N# & TGF-5SD*-N#, a maximum of one shelf may be loaded less than 15kg)

CLEANING

Before cleaning, unplug the unit and disconnect the power.
Wipe and clean the inside and outside of appliance with a damp cloth.

1. CLEANING THE INTERIOR AND EXTERIOR

- The interior and exterior of the unit can be cleaned using warm water with soap.
- Do not use an abrasive cleaner because it will scratch the surface.

2. CLEANING THE CONDENSER COIL

- To maintain proper refrigeration performance, the Condenser coil must be free of dust, dirt, and grease. This will require periodic cleaning. Condenser coil should be cleaned at least every three months (90 days) or as needed.
- To clean the condenser, unplug the power cord. Condenser can be cleaned with vacuum, brush, or CO2 (high pressure air).

NOTE: For a self-cleaning condenser equipped model, condenser cleaning is not required.
However, it is recommended to blow the condenser coil out with Nitrogen once or twice a year. Note that the condenser cleaner may not remove grease.

3. CLEAN THE DRAIN PAN

- Periodically, empty the drain pan which is located under the unit.
- When reinstalling the Drain Pan, make sure the drain hose is placed back into the pan.

4. CHECK AFTER CLEANING

1) Check the unit again for safety.
2) Plug unit back in and turn on power switch.
3) Check that the unit is operating properly.



CAUTION

1. POWER CORD

- Be sure the power cord is connected to the proper voltage.
- A protected and dedicated circuit with the correct voltage and amperage must be running in order to have connection to the line cord.
- Turn 'off' the power switch before disconnecting the power cord, whenever performing maintenance functions or cleaning the refrigerated cabinet.
- Compressor warranties are void if compressor burns out due to low voltage.

2. RESTARTING

- If disconnected, wait 5 minutes before restarting.

3. POSITIONING DRINKS

- Do not obstruct the air inlet which is located at the back inside of the unit.

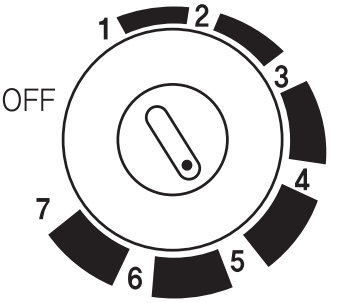
4. To prevent a child from being entrapped, keep out of reach of children and not in the vicinity of the freezer.

5. Never repair or disassemble or amend the cabinet on your own.

- There is a risk of person injury or damage to the freezer.
- It is recommended that any service be carried out by a qualified person.

BASIC OPERATION (KNOB TYPE)

1. The controller(thermostat) is located at the right inside the cabinet.
   (Only for model TGM-5SD*-N#, TGM-7SD*-N#)
2. The factory setting for the control is '3' or '4', and maintains about 37.4°F(3 ℃) inside.
3. Turn the Temperature Controller counter clock wise (or the lower number setting) for warmer temperature, and clock-wise (or the higher number setting) for colder temperature.



* Labels for Temperature Controller may differ for various models.

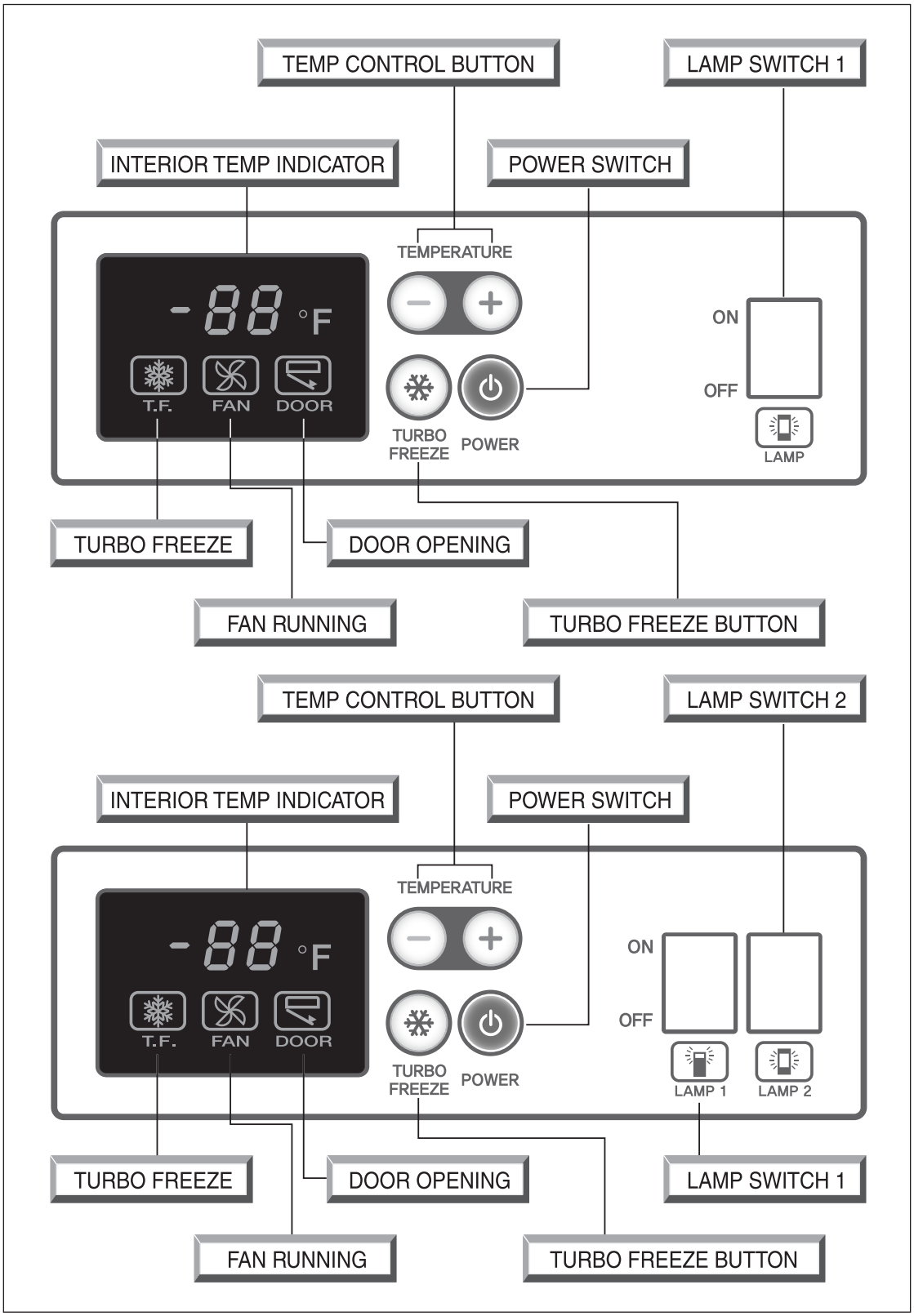
Temperature Controller (Thermostat)

4. The temp. controller is mounted on the evaporator, and compressor cycles are determined by detecting the return air temperature inside the cabinet.
5. If the temp. controller is on "OFF" position, refrigeration system will shut off.

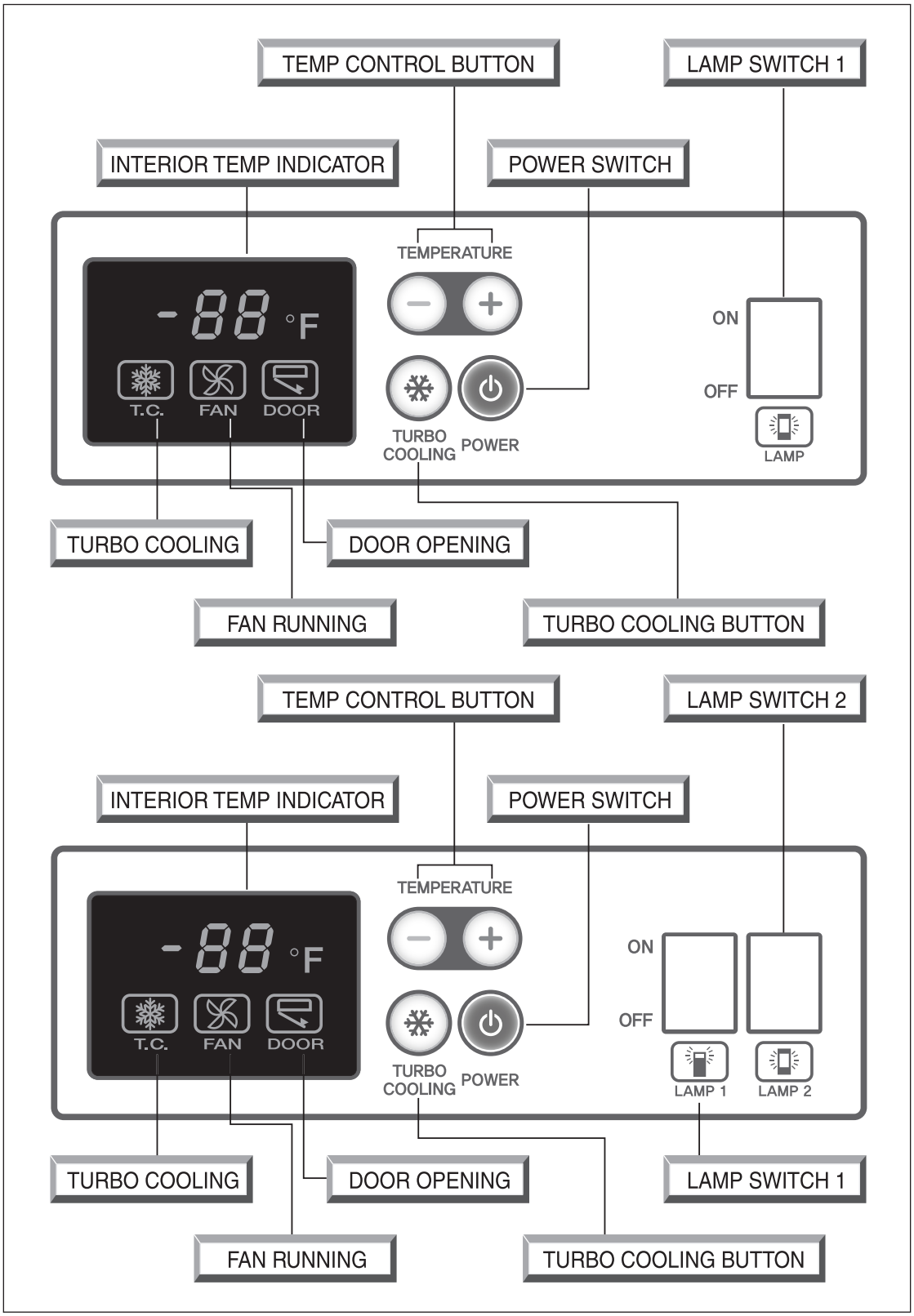
BASIC OPERATION (DIGITAL TYPE)

1. Plug in and turn on the power and lamp switch located on the top of the bottom grille right side. (Except for model "TGF-5SD*-N#")
   The display panel will be lighted and make a beep sound.
   The compressor will begin to run.
2. The default temperature setting is at 37℉(3℃) for the Chillers.
   The default temperature setting is at -8℉(-22℃) for the Freezers.
3. The compressor is automatically cycled by the electronic controller (PCB, F-Sensor).
4. The defrost cycle is automatically controlled by the D-sensor, and the PCB.
5. Push the temperature up(+) button for higher temperatures and the temperature down(-) button for lower temperatures.
6. Evaporator fan motor will run after all doors are completely closed.
7. Good air flow in freezer is critical.
   Be careful to load frozen food stuffs so that it neither presses against the rear wall, nor reaches within 4inch(10cm) from the evaporator compartment.

DISPLAY PANEL OF FREEZERS



DISPLAY PANEL OF REFRIGERATORS



DISPLAY PANEL

TURBO FREEZE & TURBO COOLING

1. Once you press the T.F. (or T.C.) button, the compressor will run for 120 minutes to bring down the temperature more rapidly.
2. If you push the T.F. (or T.C.) button again during Turbo Freeze (or Turbo Cooling) mode, the compressor will return to normal operation.
3. During Turbo Freeze (or Turbo Cooling) mode, the temperature up(+)/down(-) button will not have any effect on the compressor's operation.

UP(+)/DOWN(-) BUTTON (Temperature control button)

1. By pressing the UP(+)/Down(-) button, you can set the inside temperature.
   - Refrigerators : From '50℉' to '30℉'('10℃' to '-1℃')
   - Freezers : From '5℉' to '-17℉'('-15℃' to '-27℃')
2. To reduce the temperature, press the Down (-) button.

DEFROST

1. The electronic controller (PCB) features an intellectual algorithm which can recognize the defrost period that eliminates any ice on the evaporator, which automatically adjusts to optimal energy-saving temperatures. For additional options, this feature can be monitored and adjusted remotely by a wireless connection.
2. The panel displays "dF " during the defrost cycle.



IN ORDER TO SAFELY STORE FOOD (ALARM)

This refrigerator will sound a warning alarm when temperatures fall outside of normal temperature ranges.

After pressing the temperature adjustment button and turning off the alarm, please place a service call.

DISPLAY PANEL

INNER TEMPERATURE DISPLAY

1. This displays the temperature inside of the unit.
2. The display range is -40˚F to 99˚F (-40˚C ~ 40˚C).

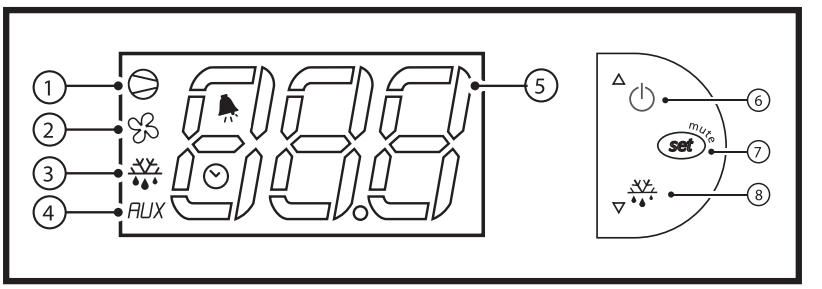
FAN RUNNING INDICATOR

1. If the fan motor is running, the fan running indicator will be turned on.
2. The motor of the evaporator fan will stop when the door is opened.

DOOR OPENING INDICATOR

1. If any door is opened, the door opening indicator will turn on.
2. If a door is open for more than 30 seconds, a warning sound will be beep three (3) times.
3. After 1 minute, the warning sound will be beep again, five (5) times.
4. After 5 minutes, the warning sound will be beep continuously.
5. Once the door is closed, the sound will immediately stop beeping.

PANEL OF FREEZER (TGF-5SD*-N#)



HOW TO SET THE TEMPERATURE

1. Press the button ⑦ by itself for 3s.
2. The display panel shows current set temperature.
3. Press the up(⑥) or down(⑧) button you want to control.

   * Button ⑧ is for the qualified person like service man.

HOW TO TURN OFF THE CABINET

1. Press the button ⑥ alone for 3s.
2. It displays “OFF” and “Interior temperature” by turns repeatedly.
   Where, - refrigeration system : OFF
   - LED : ON
   - temperature display : ON
3. When you don't want this, unplug the power source.

   * LED switch is in upper side of the cabinet.

WHEN YOU PRESS BUTTON 8 FOR 3S,

The freezer will start defrosting automatically. During this defrost cycle, the display panel will be showing the last measured temperature prior to the start of the defrost cycle.

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 long. • The temp. dial is not on the correct position. • The condenser is clogged.	• Check the installation place. • 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 is set incorrectly. • The back-side of the unit is too close to the wall.	• Check the installation.
There are dew-drops on the unit exterior.	• High-moisture air can produce dewdrops during rainy season.	• Wipe with a dry cloth.
There are dew-drops on the unit interior.	• The door is opened too frequently or left open 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 a levelling failure. • The door gasket has come out.	• 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.

FIVE (5) 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.

Five-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 five (5) year from the date of original installation or sixty three (63) months after shipment date from Turbo Air, whichever occurs first. Any part, covered under this warranty, that are by Turbo Air to have been defective within five (5) year of original installation or sixty three (63) 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 Two-Year Compressor Warranty...

In addition to the five (5) 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 two (2) additional years from the date of original installation, but not to exceed seven (7) 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 two (2) 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 or 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:

1. This system may contain R290 refrigerant and polyol ester lubricant.

   The polyol ester lubricant has rapid moisture absorbing qualities. If long exposure to the ambient conditions occur, the lubricant must be removed and replaced with new.

2. 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.

3. Micron level vacuums must be achieved to ensure low moisture levels in the system. 500 microns or lower must be maintained.

4. 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 REGARDLESS 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.turboairinc.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, 2022.

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

WARRANTY REGISTRATION CARD

MAIL CARD IMMEDIATELY OR GO TO ONLINE REGISTRATION AT *www.turboairinc.com/registration*

Company Name: _____

Type of Business: _____

Model Number: _____

Serial Number: _____

Phone Number: _____, **Email:** _____

Address: _____,
(Street / Unit #)

_____, _____, _____
(City) (State) (Zip Code)

I, _____ hereby inform and certify to Turbo Air Inc. (Manufacturer) that the product model
(Owner's Name)

and serial number mentioned above was purchased on _____ from _____.
(Date of Purchase) (Name of the Dealer)

Turbo Air Inc.

4184 E. Conant St., Long Beach, CA 90808
Toll Free: 1-800-381-7770
Fax: 310-900-1033
Email: warranty@turboairinc.com

REFRIGERATOR MANUFACTURER
Turbo air

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