

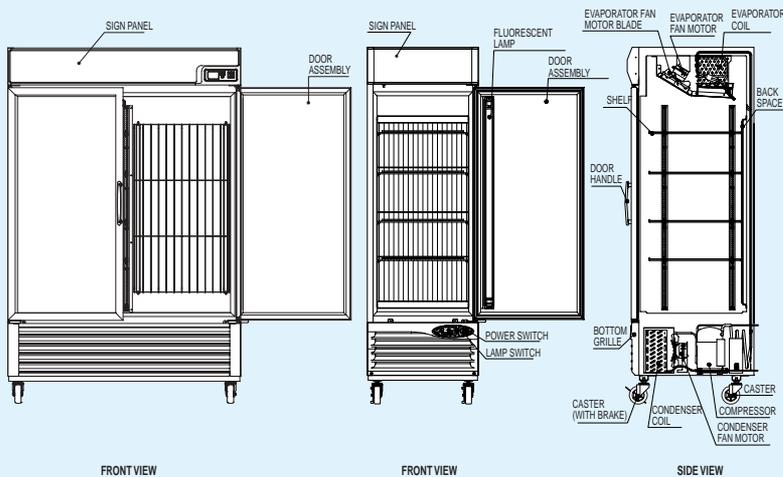
REFRIGERATOR MANUFACTURER
Turbo air

CAUTION!
BEFORE OPERATING FREEZER
PLEASE KEEP POWER SWITCH ON
AFTER TURNING ON THE POWER, THE FLUORESCENT
LAMP WILL COME ON IN A FEW MINUTES.

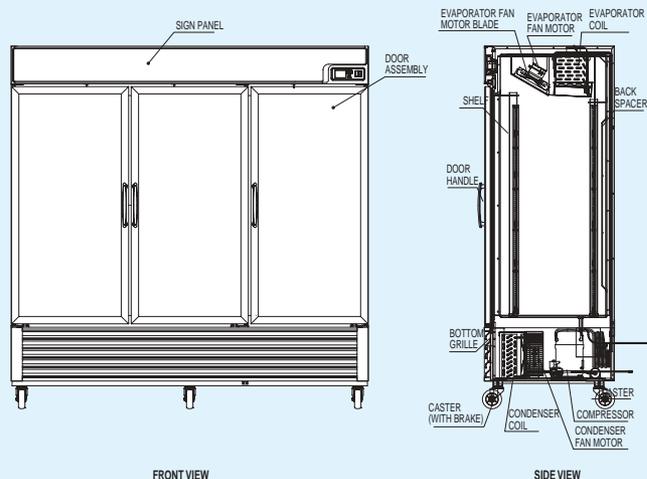
Freezer

Installation and Operation Manual

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



Model No. :
TGF-23F
TGF-49F
TGF-72F



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SPECIFICATIONS

Freezer

MODEL	COMP H.P.	V/Hz	REFRIGERANT	AMPS	CRATED WEIGHT
TGF-23F	3/4	115V/60Hz	R-404A	8.2A	419 lbs
TGF-49F	1.5	115V / (208-220)V / 60Hz	R-404A	11A	595 lbs
TGF-72F	1.5X2	115V / (208-220)V / 60Hz	R-404A	18A	900 lbs

SERIAL NUMBER

The serial number is located on the rating label inside.

Please retain the unit's serial number for service purpose.

INSTALLATION

1. GOOD AIR CIRCULATION

- Be sure to avoid any object which will restrict exhaust air flow.
- Be sure that there is ample air space so that air can flow through the rear of the unit.
- Turbo Air recommends that the rear of the unit be no less than 5 inches from the wall.

2. PLACE ON STRONG GROUND

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

3. DO NOT PLACE NEAR HEAT

- Be sure to avoid hot corners and locations near stoves.
- High ambient temperature will make cooling efficiency lower.

4. INDOOR USAGE ONLY

- Be sure to install this unit indoor, so it will not get wet from the rain.

5. STABILIZING

- Make sure the unit is installed in a stable condition with the front wheels locked while in use.

6. LEVELING

- Be sure that the unit is leveled from front to back and side to side.

7. UNIT SHOULD BE ON DEDICATED OUTLET.

CLEANING

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 FINS

- To maintain proper refrigeration 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 (90 days) or as needed.

3. CLEAN THE GASKET

- The door gasket should be cleaned frequently to maintain proper sealing.

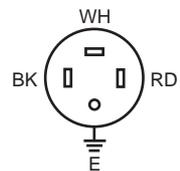
4. CHECK AFTER CLEANING

- Check the unit again for safety.
- Check that the unit is operating properly.

CAUTION

1. POWER CORD

- Be sure that the power cord is connected to the proper voltage.
- A protected circuit of the correct voltage and amperage must be run for connection of the line cord.
- Turn 'off' the power switch before disconnecting the power cord, whenever performing maintenance functions or cleaning the refrigerated cabinet.
- Dual voltage freezer (TGF-49F, TGF-72F) requires receptacle as shown the right sides.
- Compressor warranties are void if compressor burns out due to low voltage.



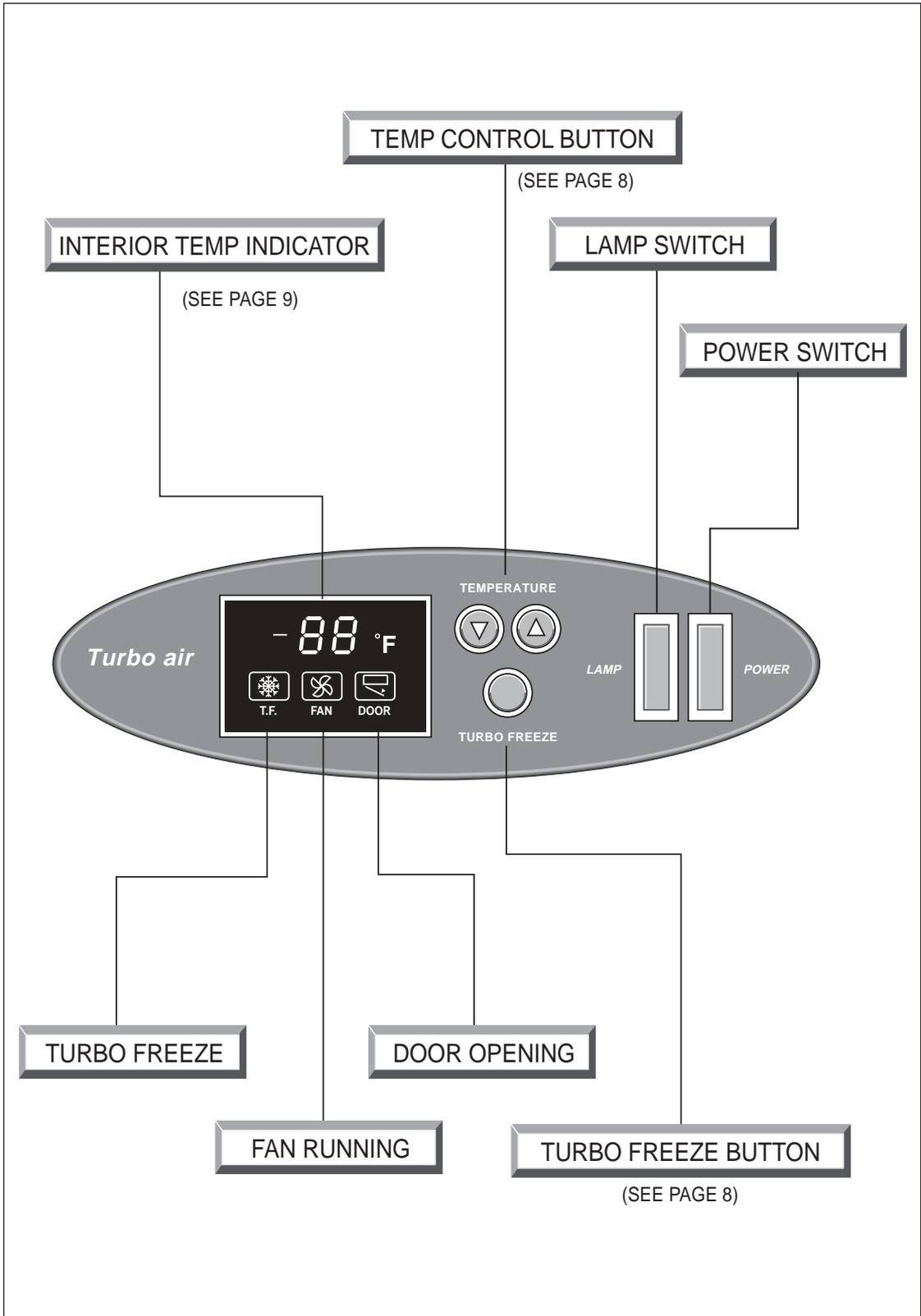
2. RE-STARTING

- If disconnected, wait for 5 minutes before re-starting.

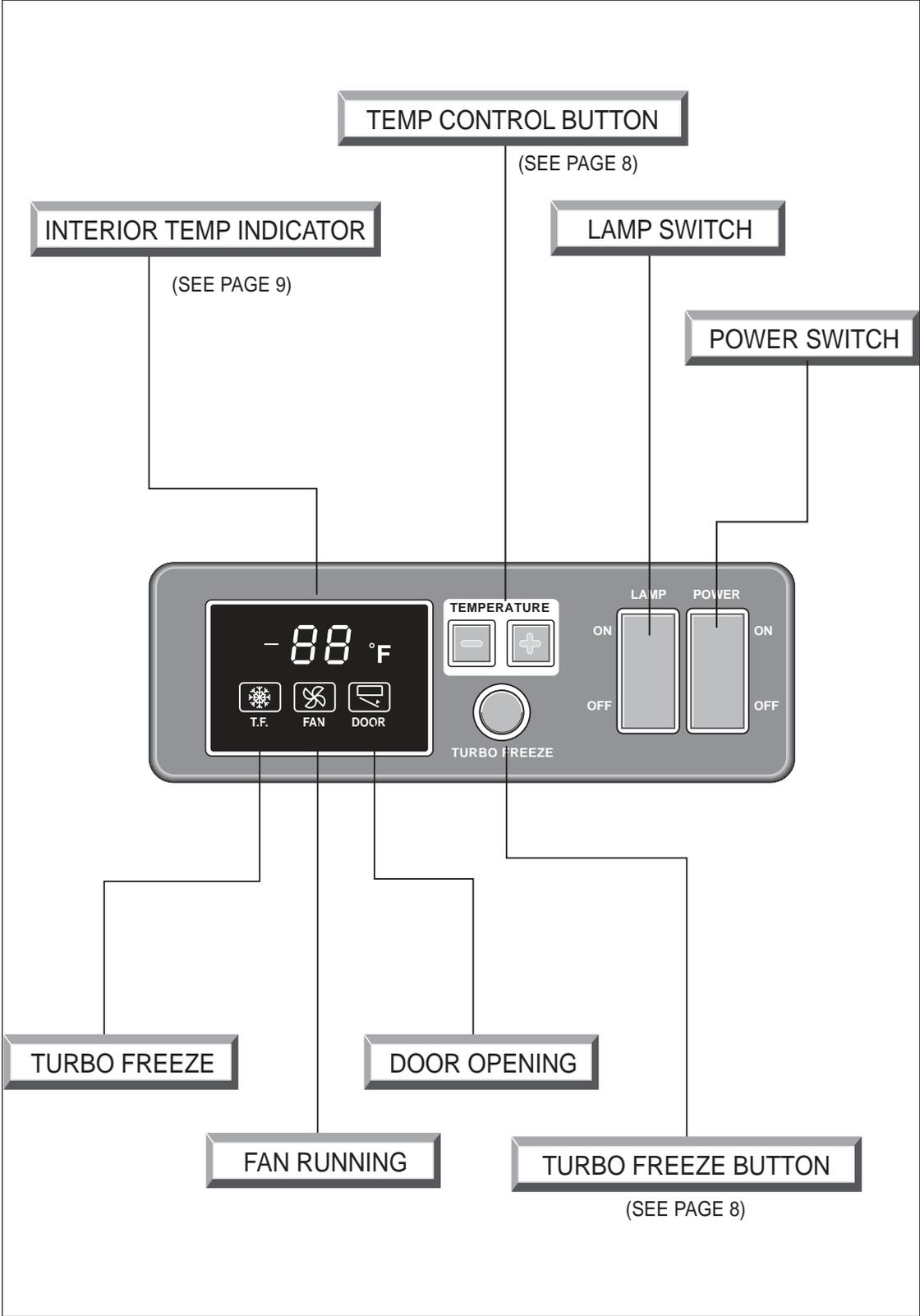
BASIC OPERATION

1. Plug in and turn on the power and lamp switch located on the top of the bottom grille right side.
The Display panel will be lighted and make a beep sound. The compressor will begin to run. After turning on the power, the fluorescent lamp will come on in a few minutes.
2. The default temperature setting is No. “-8°F” for the TGF-23F.
The default temperature setting is No. “-8°F” for the TGF-49F.
The default temperature setting is No. “-8°F” for the TGF-72F.
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 product so that it neither presses against the back wall, nor reaches within four inches from the evaporator compartment.

DISPLAY PANEL OF FREEZER (TGF-23F)



DISPLAY PANEL OF FREEZER (TGF-49F, TGF-72F)



TURBO FREEZE

1. If you push the T.F. (Turbo Freeze) button, the compressor will run for 120 minutes to bring down the temperature more quickly.
2. If you push the T.F. button again during Turbo Freeze mode, the compressor will return to the normal operation.
3. During the Turbo Freeze mode, the temperature Up/Down button will not affect the compressor's operation.

UP/DOWN BUTTON (Temperature control button)

1. By pushing the up/down button, you can set the inside temperature from '5°F' to '-17°F'.
2. If you want lower temperatures, push the Down button.

DEFROST

1. The electronic defrost controller is set at the factory to provide a defrost cycle every 8 hours (3 times per a day).
2. If it is necessary to change the intervals of defrost due to unusual operating conditions, it can be accomplished by adjusting the switch which is located on the inside of the bottom grille.
3. Once all frost is eliminated, the temperature continues to rise until it reaches 60°F (15°C). When this temperature is sensed by the defrost limit control, the defrost control changes to refrigeration mode.
4. The panel displays "dF" during the defrost cycle.

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INNER TEMPERATURE DISPLAY

1. It displays inside temperature.
2. Display range is -50°F to 50°F (-45°C ~ +10°C).
3. When inside temperature is lower than -50°F, the panel will display 'L 0'.

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and, higher than +50°F, the panel will show 'Hi'.

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FAN RUNNING INDICATOR

1. If the fan motor is running, fan running indicator will be turned on.
2. Evaporator fan motor is stopped when the door is opened.

DOOR OPENING INDICATOR

1. If any door is opened, door opening indicator will be turned on.
2. 30 seconds after any door opened, warning beep sound will be ring three (3) times.
3. 1 minute opened, warning beep sound will be ring again five (5) times.
4. 5 minutes opened, the beep sound will be ring continuously.
5. Once the door is closed, the beep sound will stop immediately.

BEFORE REQUESTING SERVICE

SYMPTOMS	CAUSES	SOLUTIONS
Freezer is melting food.	<ul style="list-style-type: none"> • The setting temperature is too high to contain food fresh. 	<ul style="list-style-type: none"> • Push the temperature down button for lower temperatures.
The unit does not refrigerate at all.	<ul style="list-style-type: none"> • There is a power connection failure problem. 	<ul style="list-style-type: none"> • Check the power cord and plug in it correctly.
The unit does not refrigerate well.	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Check the installation place. • Check the condition of stored food. • Check the position of the temp control dial.
There is a loud noise.	<ul style="list-style-type: none"> • The floor is too weak or the leveling feet is set incorrectly. • The back-side of the unit is too close to the wall. • The tray is not in the correct position. 	<ul style="list-style-type: none"> • Check the installation and adjust the tray position.
There are dew-drops on the unit exterior.	<ul style="list-style-type: none"> • High-moisture air can produce dewdrops during rainy season. 	<ul style="list-style-type: none"> • Wipe with a dry cloth.
There are dew-drops on the unit interior.	<ul style="list-style-type: none"> • The door is opened too frequently or left open long. • Damp food is stored. 	<ul style="list-style-type: none"> • Keep the door closed to remove dewdrops.
The door does not close tightly.	<ul style="list-style-type: none"> • The door is bent. • The unit has a levelling failure. • The door gasket has come out. 	<ul style="list-style-type: none"> • 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 against defrosting function.

ONE YEAR WARRANTY

Turbo air warrants to the original purchaser of every new-Turbo air refrigerated unit, the cabinet and all parts thereof, to be free from defects in material or workmanship, under normal use and service, for a period of one (1) year from the date of original installation or 15 months after shipment date from Turbo air, whichever occurs first.

Any parts covered by this warranty that are examined and determined by Turbo air to have been defective within one (1) year of original installation or fifteen (15) months after shipment date from manufacturer, whichever occurs first, shall be repaired or replaced as stated below. Turbo air shall be deemed to have fully complied with its obligation under the foregoing warranties by electing either one of the following procedures, at the sole discretion of Turbo air.

1. Furnishing a replacement part, freight collect, in even exchange for the returned part, freight collect.
2. Receiving the defective part, freight collect; repairing it; and returning it, freight collect.

ADDITIONAL FOUR YEAR COMPRESSOR WARRANTY

In addition to the (1) one year warranty stated above, Turbo air warrants its hermetically and semi-hermetically sealed compressor to be free from defects in both material and workmanship under normal use and service for a period of four (4) additional years from the date of original installation but not to exceed five (5) years and three (3) months after shipment from manufacturer.

Compressors determined by Turbo air have been defective within this extended time period will, at Turbo air's option, be either repaired or replaced with a compressor or compressor parts of similar design and capacity.

The four (4) years extended compressor warranty applies only to hermetically and semi-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 any other electrical component, etc.

404A COMPRESSOR WARRANTY

The four year compressor warranty detailed above will be voided if the following procedure is not carefully adhered to:

1. This system contains R404A refrigerant and polyol ester lubricant. The Poyol ester lubricant has rapid moisture absorbing qualities. If long exposure to the ambient conditions occur, the lubricant must be removed and replaced with new. Listed below are the approved lubricants for the Tecumseh compressors.

1. ICI-Emkarate RL 184
2. Emery-2927-A
3. Mobile Artic 22A

Failure to comply with recommended lubricant specification will void the compressor warranty.

2. Dryer replacement is very important and must be changed when a system is opened for servicing. Dryer must be used with XH-9 desiccant.
3. Micron level vacuums must be achieved to insure low moisture levels in the system. 500 microns or lower must be obtained.

WHAT IS NOT COVERED BY THIS WARRANTY

Turbo air's obligation under 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 expressly covered by this warranty.

1. **WARRANTY IS NOT TRANSFERABLE.** This warranty is not assignable and applies in favor of the original purchaser/user to whom delivered. Any such assignment or transfer shall void the warranties herein made and shall void all warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose.
2. **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 claims whether or not on account of refrigeration failure.
3. **ALTERATION, NEGLIGENCE, ABUSE, MISUSE, ACCIDENT, DAMAGE DURING TRANSIT OR INSTALLATION, FIRE, FLOOD, ACTS OF GOD.** Turbo air is not responsible for the repair or replacement of any parts that Turbo Air determines have been subjected after the date of manufacture to alteration, neglect, abuse, misuse, accident, damage during transit or installation, fire, flood, or an Act of God.
4. **NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** There are no other warranties, express, implied or statutory, except the one(1) year warranty and the additional four (4) years compressor warranty as described above. These warranties are exclusive and in lieu of all other warranties, including implied warranty and merchantability or fitness for a particular purpose. There are no warranties which extend beyond the description on the face hereof.
5. **TRANSPORTATION COSTS.** Turbo Air will accept parts covered under this warranty freight collect, provided that shipment has received prior approval. Turbo Air is not responsible for any other transportation costs, but will ship freight collect parts either repaired or replaced under these warranties.
6. **WARRANTY CLAIMS.** All claims should include: model number of the freezer, the serial number of the cabinet, proof of purchase, date of installation, and all pertinent information supporting the existence of the alleged defect. Any action or breach of these warranty provisions must be commenced within one (1) year after that cause of action has accrued.

Turbo air REFRIGERATOR MANUFACTURER

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FAX: 310-900-1077
www.turboairinc.com

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.

One 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 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 one (1) year from the date of original installation or 15 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 one (1) year of original installation or fifteen (15) 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.

Additional Four Year Compressor Warranty...

In addition to the one (1) 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 four (4) 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 four(4) 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 other electrical components, etcetera.

404A / 134a Compressor Warranty...

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

1. This system contains R404A or R134a refrigerant and polyol ester lubricant. The polyol ester lubricant has rapid moisture absorbing qualities.
2. Drier replacement is very important and must be changed when a system is opened for servicing. A620 copper drier or better is highly recommended.
3. Micron level vacuums must be achieved to insure low moisture levels in the system. 500 microns or lower must be obtained.
4. When compressor is grounded, suction drier and 620 drier or better must be replaced.
5. Compressor must be obtained through Turbo Air, unless otherwise specified in writing, through Turbo Air's warranty department.

404A / 134a Compressor 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.

ALTERATION, NEGLIGENCE, ABUSE, MISUSE, ACCIDENT, DAMAGE DURING TRANSIT OR INSTALLATION, FIRE, FLOOD, ACTS OF GOD. Turbo Air is not responsible for the repair or replacement of any parts that Turbo Air determines have been subjected after the date of manufacture to alteration, neglect, abuse, misuse, accident, damage during transit or installation, fire, flood, or act of GOD.

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. NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE; THERE ARE NO OTHER WARRANTIES, EXPRESSED, IMPLIED OR STATUTORY, EXCEPT THE ONE (1) YEAR PARTS & LABOR WARRANTY AND THE ADDITIONAL FOUR (4) YEAR COMPRESSOR WARRANTY AS DESCRIBED ABOVE. THESE WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, INCLUDING IMPLIED WARRANTY AND MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

Outside U.S. and Canada; This warranty does not apply to, and Turbo Air is not responsible for, any warranty claims made on products sold or used outside the continent of the United States and Canada.