

Commercial Cake Showcases Installation and Operation Manual

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



TBA37- 50N - W(B)



TBA49- 50N - W(B)

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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 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

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 <ul style="list-style-type: none"> - 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 *ft*³ (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.

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 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 recommend 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.

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 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.

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.

IMPORTANT SAFETY INFORMATION

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.

IMPORTANT SAFETY INFORMATION

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.

WARNING

Before disposing of old appliances, make them inoperable. Remove plug from mains, sever 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 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

INTRODUCTION

This owner's manual has important information. Please read the entire manual before installing your new Turbo Air Open Display Merchandiser. For specific questions not answered on this manual, please call:

CUSTOMER SERVICE DEPARTMENT

TURBO AIR

Please write down the model and serial number of your merchandiser for future references:

MODEL NUMBER _____

SERIAL NUMBER _____

WARNING

Keep this manual in a safe place for your reference.

Failure to read this manual in its entirety can result in misuse of the equipment, which may cause personal injury or equipment failure.

WARNING

Display Case should be on a minimum 20 Amps dedicated outlet and minimum 12 AWG wire for proper operation.

SPECIFICATIONS

TBA- Series

MODEL	V/Hz	REFRIGERANT	HP	AMPS	WEIGHT (lbs)
TBA37-50N-W(B)	115V/60Hz	R-290	7/8	8.82	450
TBP49-50N-W(B)	115V/60Hz	R-290	3/4	12.12	550

INSTALLATION

DAMAGE INSPECTION

Prior to installation, the customer must check for damages with the freight company before the unit is accepted.

1. If the crate is damaged, make sure to note the damage on the Bill of Lading prior to signing the delivery off.
2. Concealed damage must be reported within 5 days of receiving the unit. Bill of Lading must be faxed to the Claims department. Pictures of both unit and crating may be requested.

LOCATION OF OPEN DISPLAY MERCHANDISER & BAKERY CASE

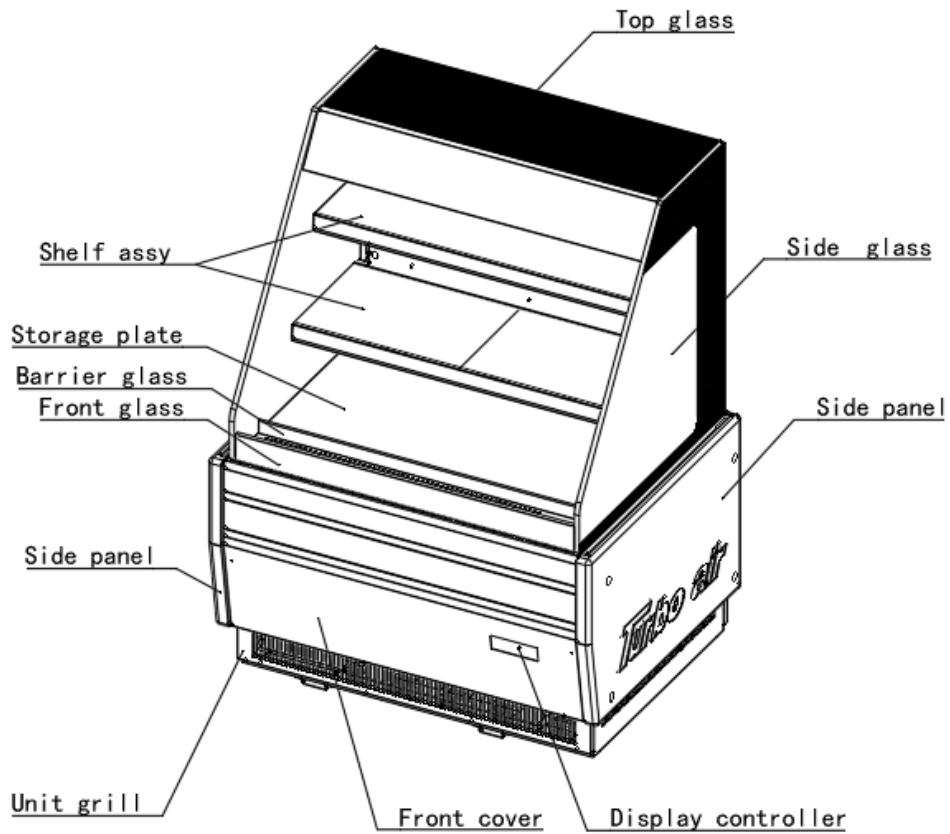
Open Display Merchandisers & Bakery Cases are designed to be in an area that is ambient 75 degrees Fahrenheit (dry bulb) or colder with 55 percent relative humidity. If the installed unit is in a warm ambient area, it may not be as effective. Position the unit at its final location before removing the shipping skid. There are four bolts at the bottom of the unit that secure the shipping skid. Remove all four bolts to remove the skid. Allow three inches of space from the wall to the back of the merchandiser. Condenser is located to the front. Do NOT block inlet.

TBA Series

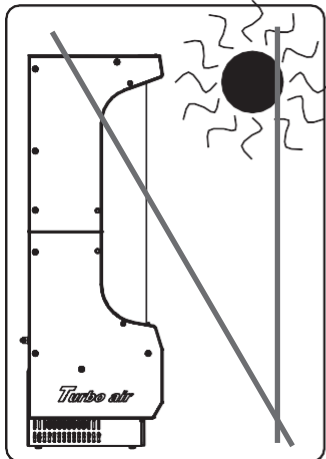
LEVELING THE OPEN DISPLAY MERCHANDISER & BAKERY CASE

Four leveling legs are provided to level your Merchandiser. Use a leveler to ensure the unit is evenly leveled on all four corners. If the unit is not leveled correctly, excess water buildup will not drain properly. If you do not wish to use the levelers, they can be turned inwards.

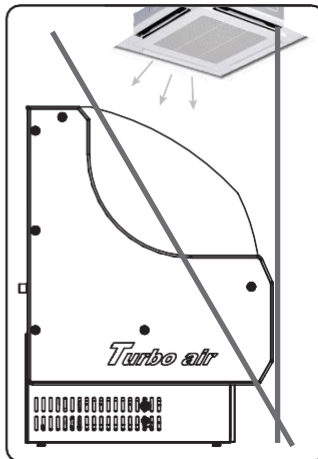
NAME OF COMPONENTS



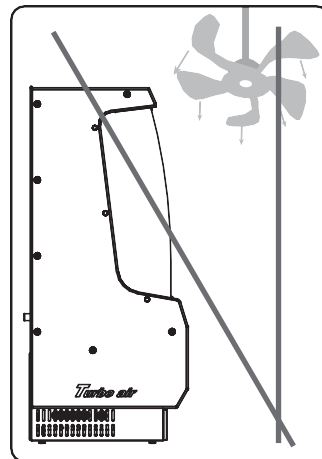
OPERATING CONDITIONS



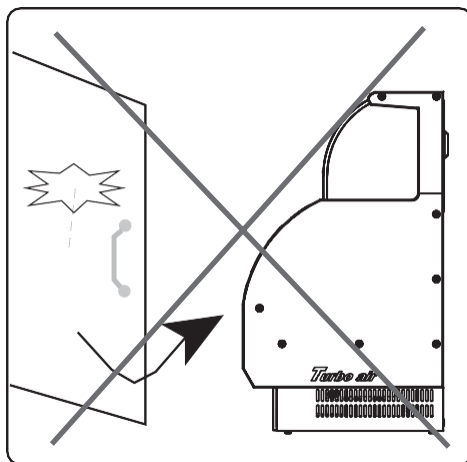
Units should not be placed in direct sunlight.



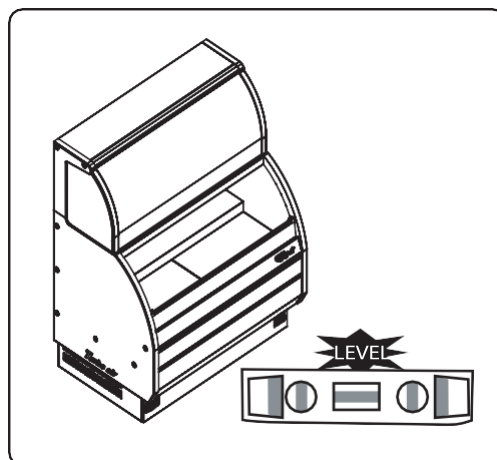
Units should not be placed near HVAC vents.



Units should not be placed near fans.

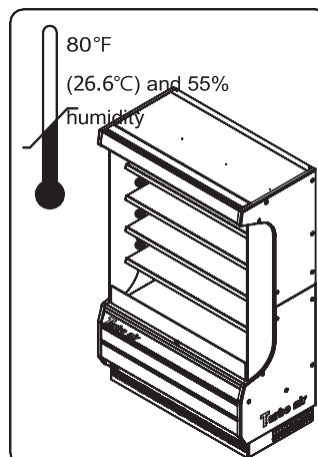
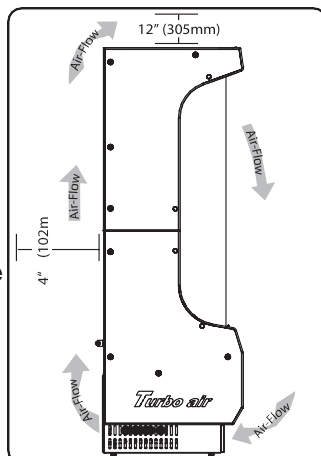


Units should not be placed near doorways.



Level the cabinet on all four corners of the base.

Confirm there is enough clearance for proper air circulation.



Operating environment not to exceed 80°F (26.6°C) and 55% humidity.

Do not load product beyond the edge of the shelf.

BASIC OPERATION

INTRODUCTION OF KEY FUNTION



Functions activated using the buttons - PJEZS

Button		Normal Operation		Start Up	
		Pressing the Button Alone	Pressed Together		
	up ON/OFF	more than 3 s: toggle ON/OFF	pressed together start/stop continuous cycle		
	down defrost	more than 3 s: start/stop defrost		pressed together start parameter reset procedure	for 1 s display firmware vers. code
	set mute	- 1 s: display/set the set point - more than 3 s: access parameter setting menu (enter password '22')			for 1s RESET current EZY set

Functions activated using the buttons - PJEZM

Button		Normal Operation	Start Up	
		Pressing the Button Alone		
	up ON/OFF	more than 3 s: toggle ON/OFF		
	down defrost	rapid selection of the probe displayed	pressed together start parameter reset procedure	for 1 s display firmware vers. code
	set mute	- 1 s: display/set the set point - more than 3 s: access parameter setting menu (enter password '22')		

TROUBLESHOOTING

SYMPTOMS	CAUSES	SOLUTIONS
Cooler is freezing food.	<ul style="list-style-type: none"> • Thermostat set too cold. 	<ul style="list-style-type: none"> • Turn the thermostat setting to a higher temperature position.
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 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 too long. • The temp. dial is not on the correct position. • The condenser is clogged. 	<ul style="list-style-type: none"> • Check the installation location. • 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 are set incorrectly. • The backside of the unit is too close to the wall. 	<ul style="list-style-type: none"> • Check the installation.
There are dewdrops on the unit exterior.	<ul style="list-style-type: none"> • High-moisture air can produce dewdrops during rainy seasons. 	<ul style="list-style-type: none"> • Wipe with a dry cloth.
There are dewdrops on the unit interior.	<ul style="list-style-type: none"> • The door is opened too frequently or left open too 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 is not leveled off. • The door gasket has come off. 	<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 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.

THREE (3) 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.

Three-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 three (3) years from the date of original installation or thirty nine (39) 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 three (3) years of original installation or thirty nine (39) 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 three (3) 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 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 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 other electrical components, etcetera.

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

The two or four-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 it is exposed to ambient conditions for an extended period, the lubricant must be replaced.
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, NEGLIGENCE, 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 January 1, 2021.

NOTE



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

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Email: warranty@turboairinc.com



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