Ice Cream Dipping Cabinets
Installation and Operation Manual

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

TIDC-26G(W)
TIDC-47G(W)
TIDC-70G(W)
TIDC-91G(W)

www.turboairinc.com
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NAMES OF COMPONENTS

TIDC - 26 G / W

1: TIDC - Turbo Ice Dipping Cabinet
2: Model Dimension Width (Inch)
3: Color - Green
4: Color - White

Cabinet Door
Cabinet Window
Cooling Cover
Shelves
Shelves Cover
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (Display/Storage 3gal.cans)</th>
<th>Dimension (WxDxH) in.</th>
<th>Racks</th>
<th>Cooling Type</th>
<th>Cooling Control</th>
<th>Defrost Type</th>
<th>Temperature</th>
<th>Refrigerant</th>
<th>Power Consumption</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIDC-26G(W)</td>
<td>4 / 0</td>
<td>26 x 261/8 x 491/2</td>
<td>4</td>
<td>Direct Cooling</td>
<td>Digital</td>
<td>Defrost during Cooling</td>
<td>0 ± 5 °F</td>
<td>R-134A</td>
<td>280W</td>
<td>227</td>
</tr>
<tr>
<td>TIDC-47G(W)</td>
<td>8 / 5</td>
<td>47 x 261/8 x 491/2</td>
<td>8</td>
<td>Direct Cooling</td>
<td>Digital</td>
<td>Defrost during Cooling</td>
<td>0 ± 5 °F</td>
<td>R-404A</td>
<td>400W</td>
<td>375</td>
</tr>
<tr>
<td>TIDC-70G(W)</td>
<td>12 / 8</td>
<td>703/8 x 261/8 x 491/2</td>
<td>12</td>
<td>Direct Cooling</td>
<td>Digital</td>
<td>Defrost during Cooling</td>
<td>0 ± 5 °F</td>
<td>R-404A</td>
<td>550W</td>
<td>518</td>
</tr>
<tr>
<td>TIDC-91G(W)</td>
<td>16 / 12</td>
<td>913/8 x 261/8 x 491/2</td>
<td>16</td>
<td>Direct Cooling</td>
<td>Digital</td>
<td>Defrost during Cooling</td>
<td>0 ± 5 °F</td>
<td>R-404A</td>
<td>670W</td>
<td>673</td>
</tr>
</tbody>
</table>
ABOUT THE TIDC MODELS

- It is designed to provide maximum convenience to users and store ice cream products.
- You can adjust the temperature of the freezer system from 9°F to -5°F.
- The cooling system is equipped with customized cooling coil characterized by low noise to improve temperature deviation and energy efficiency.
- It is equipped with a PVC shelf with a handle to enable placing ice cream containers easily and arranging each of them stably. To preserve the ice cream’s flavor, the container cover is simply designed.
- It can accommodate ice cream containers with capacity of up to 3 gal. (12 ℓ) and diameter of 9.5 inch (242mm).
- The freezer system uses environment-friendly refrigerant such as R-134A or R-404A; the door is designed as a top open type to prevent the leak of cool air. The cooling system uses the direct cooling system, and the heater is attached on the cooling surface to remove frost easily.
- Each lighting of the safely protected LED LAMP, which delivers a glossier image of ice cream, has an ON/OFF switch.
- To operate, just plug the cord into the 115V outlet.
- This product is designed to be operated under room temperature of 75°F and humidity of 55%. Avoid direct sunlight and severe temperature change.

*The earth leakage circuit breaker is behind the air outlet.*
INSTALLATION

Installing

Install on a flat ground. Otherwise, it may result in movement of the product, interference in drainage, or noise and vibration.

Do not install near places with rain, snow, direct sunlight, heating equipment, or humid space. It may decrease the cooling capacity and shorten the life cycle of the product.

Never ground in the following places:

- Gas Pipe
- Telephone Wire
- Lighting Rod
ADJUSTING THE TEMPERATURE

- The set value will flash every 0.5 seconds. Use the [▲] or [▼] key to set (change) the value.
- After changing the set value, press the [MD] key to save the value and return to the operation mode.
- If you do not press any key for 60 seconds during setting, the operation mode will be restored automatically.
Before defrosting, transfer the items in the freezer to another freezer to prevent them from melting.

**Caution**

How to defrost

Too thick frost on the refrigerator will decrease the cooling capacity and increase power consumption. In case of frost thicker than 4 inch, please defrost with the following instruction:

1. Pull out the drain cap.
2. Open the cover of the machine room.
3. Prepare the container for collecting the water with the drain hose.
4. Press the [▲] key for 3 seconds to activate the defrosting operation mode. The inner heater [DEF] will operate to melt the frost on the wall.
5. After a certain period (30~40 minutes), the freezer [COMP] storage mode will be restored automatically. Please remove the existing water and pieces of ice completely.
6. If the frost is not removed sufficiently, press the [▲] key for 3 seconds again.

**Note**

Never use metal such as ice pick or knife to defrost. It may damage the surface of freezer, decrease the cooling capacity, or cause failure.

After unplugging, wait for more than 5 minutes before plugging again. Suspension of operation for a short time is not an indication of failure; it is an automatic adjustment process by the [Temperature Controller]
### SAFETY PRECAUTIONS

#### Cautions in use

<table>
<thead>
<tr>
<th>Outlet</th>
<th>Plug</th>
<th>Bottle and can</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not connect multiple electric devices to one outlet. It may cause fire.</td>
<td>When unplugging, be sure to hold the plug and not the cord (Check the plug and cord regularly and replace them immediately if damaged).</td>
<td>Do not store bottles or cans. They may break when frozen.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Objects to be avoided</th>
<th>Storage capacity</th>
<th>Children’s Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>Never store benzene, alcohol, medicines, and inflammables. They may explode.</td>
<td>Food must not exceed the “storage limit.” The proper temperature should be maintained.</td>
<td>When the showcase is operated, never touch the machine room on the back. The air blower is spinning fast. Keep out of reach of children.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cleaning</th>
<th>Do not splash water.</th>
</tr>
</thead>
<tbody>
<tr>
<td>When cleaning, do not use benzene or thinner. It may cause discoloration.</td>
<td>When cleaning the show-case, do not splash water directly. It may cause electric leakage or electric shock.</td>
</tr>
</tbody>
</table>
**TIPS**

**In case of power failure**

- When power failure is announced in advance:
  - Do not put in newly cooked food (it will increase the internal temperature)
  - Do not remove frost in the freezer

- When power is cut off suddenly:
  - Minimize the opening of the door as much as possible
  - Even in summer, cooling will be maintained for 1~2 hours

**MANAGING AND STORING**

**How to manage**

For longer product life, please check and manage the product regularly

1. First, pull the plug from the outlet
2. Remove all food in the freezer
3. Wipe the product using a soft cloth moistened with a dishwashing detergent
   Wash with clean water and wipe with a dry cloth

**Note**

- When managing the showcase, never spray water directly

**When the showcase will not be used for a long time**

1. Unplug.
2. Wipe off the water generated from frost.
3. Open the door to dry the freezer completely and store the product in a well-ventilated space.
### TROUBLESHOOTING

- If there is a problem in the product, check the following first.
- When checking the product, be sure to unplug it first.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
</tr>
</thead>
<tbody>
<tr>
<td>The cooling function has stopped completely</td>
<td>• Is it due to the power failure?</td>
</tr>
<tr>
<td></td>
<td>• Is the product unplugged?</td>
</tr>
<tr>
<td></td>
<td>• Is the switch of the earth leakage circuit breaker turned “OFF”?</td>
</tr>
<tr>
<td></td>
<td>• Is the ON, OFF switch of the temperature controller turned “ON”? (- mark)</td>
</tr>
<tr>
<td>The freezing function is insufficient</td>
<td>• Is the product in a place with direct sunlight?</td>
</tr>
<tr>
<td></td>
<td>• Is the product near a heating device?</td>
</tr>
<tr>
<td></td>
<td>• Is the ventilation disrupted due to too much dust in the condenser?</td>
</tr>
<tr>
<td></td>
<td>• Is there thick frost on the freezer?</td>
</tr>
<tr>
<td></td>
<td>• Is the door closed completely?</td>
</tr>
<tr>
<td>The product is making so much noise</td>
<td>• Is the floor or installation site unstable?</td>
</tr>
<tr>
<td></td>
<td>• Does the air blower on the back come into contact with a plastic bag or other plastic products?</td>
</tr>
<tr>
<td>Beads of water have formed on the outside or door of the showcase</td>
<td>• It is a temporary condition generated under high temperature and humidity, e.g., during the rainy season. It is not an indication of failure. Please wipe off with a dry cloth.</td>
</tr>
</tbody>
</table>

* Note: For the ON, OFF switch, the pressed state (- mark) means that the product is in operation.
PRECAUTIONS

Please read the Safety Precautions and take the necessary actions before use.

Installation Precautions

To prevent fire, electric shock, or electric leakage.

- When installing, avoid having the power plug and power cable pinned down by the showcase or other objects

- Do not use the extension wire

- Do not install the product where water may flow or accumulate on the ground

Usage Precautions

To prevent injury, fire, electric shock, or electric leakage

- Read the user’s manual

- After reading the user’s manual and 「Safety Precautions」, store them in a visible place
PRECAUTIONS

To use the product properly, please read these "Safety Precautions" before use.

<table>
<thead>
<tr>
<th>! Warning</th>
<th>! Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>May cause serious damage such as death or fatal injuries</td>
<td>May cause serious / slight injuries or damage to property</td>
</tr>
</tbody>
</table>

**Indication examples**

- ! This means that you must not disassemble the product
- ! This means that you must disconnect the power plug from the outlet
- ! This mark means 「Prohibition」(Do not)
- ! This mark means 「Precaution」(Should be observed)

---

**Warning**

- ! The power source must be 115V
  - Otherwise, it may result in fire, electric shock, or failure
- ! Do not use a multi-outlet
  - Complex wiring may cause abnormal heating and fire
  - Connect only one product to an outlet more than 15A
- ! Take care not to have the power plug and power cable pinned down by the showcase or other objects
  - It may cause fire
- ! Do not use damaged cord or power plug or loose outlet
  - It may cause short circuit, electric leakage, or overheating, which in turn may cause electric shock or fire
- ! Prevent the sheath from being peeled off by a heavy object; do not pull or bend forcibly
  - Damaged sheath may cause fire or electric shock
- ! When unplugging, do not pull the cord
  - It may cause the disconnection of cord or short circuit, which in turn may cause electric shock or fire
  - Always hold the power plug
### Warning

<table>
<thead>
<tr>
<th>Icon</th>
<th>Text</th>
</tr>
</thead>
</table>
| ❌ | Do not hold the power plug with wet hands.  
   - It may cause electric shock |
| ![Grounding] | Ground thoroughly.  
   - Inadequate grounding may cause electric leakage due to failure and electric shock.  
   - Damaged electric insulation may cause electric shock or fire. |
| ![Grounding] | Do not ground on water pipe, gas pipe, telephone line, and lightning rod.  
   - It may cause fire or electric shock  
   - For grounding, contact the retailer where you made your purchase. |
| ![Grounding] | Do not install the product in a humid place.  
   - Damaged electric insulation may cause electric shock or fire. |
| ❌ | Insert the power plug with the cord face down.  
   - If you insert with the cord facing upward, the cord may overheat or cause short circuit, which in turn may cause electric shock or fire. |
| ❌ | When inserting the power plug, hold it firmly.  
   - Damaged electric insulation may cause electric shock or fire. |
| ![Cord] | The power cord must not come into contact with an electric heater.  
   - Damaged cord may cause fire or electric shock.  
   - If the cord is damaged, stop using the product and contact our service center for the replacement of parts. |
| ![Cord] | Do not place a container with water on the showcase.  
   - If the water spills, and the insulation of electric parts is damaged, electric leakage, electric shock, or fire may occur. |
| ❌ | Do not splash water on or inside the main body.  
   - Damaged electric insulation may cause electric shock or fire. |
| ❌ | Do not move the shelf when there is an item on it.  
   - If the shelf falls, it may injure people. |
| ❌ | Do not hold the showcase’s door to pull it down.  
   - It may cause injury if the hand is caught |
| ❌ | Do not move the shelf when there is an item on it.  
   - If the shelf falls, it may injure people. |
| ❌ | Never try to disassemble, repair, or remodel the product.  
   - It may cause fire or malfunction, which in turn may cause fatal injury. |
| ❌ | If you suspect that an inflammable gas leaked, ventilate to prevent contact between the gas and showcase.  
   - In case of electric contact, explosion, fire, or burn may occur. |
| ❌ | Do not use flammable spray near the product.  
   - Ignition following electric contact may cause fire. |
| ❌ | Do not insert inflammables.  
   - Thinner, benzene, LP gas, and glue may cause ignition or explosion. |
### Warning

<table>
<thead>
<tr>
<th>Icon</th>
<th>Warning Message</th>
</tr>
</thead>
</table>
| ![No Symbol] | Do not store medicine or laboratory specimens  
  - Do not store an item that requires strict temperature control in the showcase |
| ![Warning Symbol] | When inserting your hand into the machine room at the lower back, be sure to unplug the product first  
  - Otherwise, it may result in electric shock or burn  
  - The spinning fan may cause injury |
| ![Warning Symbol] | To replace the fuse, use a fuse with the same capacity  
  - The use of improper fuse may cause fire |
| ![Warning Symbol] | To replace the inner lighting or fluorescent light, disconnect the power first  
  - Otherwise, it may result in electric shock |
| ![Warning Symbol] | If the power cord is damaged, please contact our service center  
  - Damaged power cord may cause fire, electric shock, or electric leakage |
| ![Warning Symbol] | To dispose of the showcase, remove the glass door  
  - If a child is locked in, he/she may be suffocated  
  - If the glass breaks, it may cause serious injury to other persons |

### Caution

<table>
<thead>
<tr>
<th>Icon</th>
<th>Caution Message</th>
</tr>
</thead>
</table>
| ![Caution Symbol] | Unplug the product if it will not be used for a long time  
  - Otherwise, it may result in the risk of fire |
| ![Caution Symbol] | Do not insert a bottle into the freezer  
  - If the bottle freezes and breaks, it may cause serious injuries |
| ![Caution Symbol] | Do not place your hand beneath the showcase  
  - If you place your hand beneath the showcase when cleaning, the sharp steel plate may cause serious injuries |
| ![Caution Symbol] | Do not touch the food and container in the freezer and cooler with wet hands  
  - Doing so can result in frostbite |
| ![Caution Symbol] | To replace the inner lighting or fluorescent light, wear gloves since it may break or cause burns  
  - Place the inner lighting or fluorescent light into the socket firmly |
| ![Caution Symbol] | Moving the product may scratch the floor.  
  - If you move it forcibly, it will damage the floor  
  - For vulnerable floor, support with a protective board |
| ![Caution Symbol] | Do not eat food with bad smell or discoloration  
  - Even if stored in the freezer or cooler, food may spoil after a long time |
| ![Caution Symbol] | If the glass is heated, it may break  
  - The pieces of broken glass may cause serious injury |
| ![Caution Symbol] | Do not touch the condenser or piping at the lower back  
  - The condenser or piping is very hot when the product is operating or it just stopped (may cause burns) |
TURBO AIR MANUFACTURING COMPANY

TWO 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 two (2) years from the date of original installation or 27 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 two (2) years of original installation or twenty seven (27) 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 THREE YEAR COMPRESSOR WARRANTY

In addition to the (2) two 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 three (3) 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 three (3) year 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, etcetera.

134A(404A) COMPRESSOR WARRANTY

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

1. This system contains R134A 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. 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 obtained.
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 expressly covered by this warranty.

1. 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 HEREBIN 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, NEGLECT, 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 TWO(2) YEAR WARRANTY AND THE ADDITIONAL THREE (3) 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.

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 cooler, 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 two (2) year after that cause of action has accrued.
5. Compressor must be obtained through Turbo Air, unless otherwise specified in writing, through Turbo Air's warranty department.

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

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.

Outside the description on the face hereof.

BEYOND THE DESCRIPTION ON THE FACE HEREOF.

AND MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES, WHICH EXTEND ABOVE. THESE WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, INCLUDING IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE; THERE ARE NO OTHER WARRANTIES, EXPRESSED, IMPLIED OR STATUTORY, EXCEPT THE TWO (2) YEAR PARTS & LABOR WARRANTY AND THE ADDITIONAL THREE (3) 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.

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New Extended Warranty policy applies to all units sold by Turbo Air starting Dec. 1, 2012