



Horizontal Open Air Merchandisers

Models: _____

#189BMCAC36

#189BWCAC36

Note:

You should read this manual in its entirety prior to equipment setup, operation, and maintenance.

Warnings

DANGER – RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. TO BE REPAIRED ONLY BY TRAINED SERVICE PERSONNEL. DO NOT PUNCTURE REFRIGERANT TUBING.

PELIGRO – RIESGO DE INCENDIO O EXPLOSION. REFRIGERANTE INFLAMABLE UTILIZADO. PARA SER REPARADO SOLAMENTE POR PERSONAL DE SERVICIO CALIFICADO. NO PINCHAR LA TUBERÍA REFRIGERANTE.

DANGER – RISQUE DE FEU OU D'EXPLOSION. LE FRIGORIGÈNE EST INFLAMMABLE. CONFIER LES RÉPARATIONS À UN TECHNICIEN SPÉCIALISÉ. NE PAS PERFORER LA TUBULURE CONTENANT LE FRIGORIGÈNE.

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.

ATENCIÓN – RIESGO DE INCENDIO O EXPLOSIÓN. REFRIGERANTE INFLAMABLE UTILIZADO. CONSULTE EL MANUAL DE REPARACIÓN / GUÍA DEL PROPIETARIO ANTES DE INTENTAR DAR SERVICIO A ESTE PRODUCTO. DEBEN CUMPLIR CON TODAS LAS PRECAUCIONES DE SEGURIDAD.

ATTENTION – RISQUE DE FEU OU D'EXPLOSION. LE FRIGORIGÈNE EST INFLAMMABLE. CONSULTER LE MANUEL DU PROPRIÉTAIRE/GUIDE DE RÉPARATION AVANT DE TENTER UNE RÉPARATION. TOUTES LES MESURES DE SÉCURITÉ DOIVENT ÊTRE RESPECTÉES.

CAUTION – RISK OF FIRE OR EXPLOSION DUE TO PUNCTURE OF REFRIGERANT TUBING; FOLLOW HANDLING INSTRUCTIONS CAREFULLY. FLAMMABLE REFRIGERANT USED.

ATENCIÓN – RIESGO DE INCENDIO O EXPLOSIÓN DEBIDO A LA PERFORACION DE LA TUBERÍA REFRIGERANTE; SIGA LAS INSTRUCCIONES DE MANIPULACIÓN CON CUIDADO. REFRIGERANTE INFLAMABLE UTILIZADO.

ATTENTION – RISQUE DE FEU OU D'EXPLOSION SI LA TUBULURE CONTENANT LE FRIGORIGÈNE EST PERFORÉE; SUIVRE LES INSTRUCTIONS DE MANUTENTION AVEC SOIN. LE FRIGORIGÈNE EST INFLAMMABLE.

CAUTION – RISK OF FIRE OR EXPLOSION DUE TO FLAMMABLE REFRIGERANT USED. FOLLOW HANDLING INSTRUCTIONS CAREFULLY IN COMPLIANCE WITH LOCAL GOVERNMENT REGULATIONS.

ATENCIÓN – RIESGO DE INCENDIO O EXPLOSIÓN DEBIDO A REFRIGERANTE INFLAMABLE UTILIZADO. SIGA LAS INSTRUCCIONES DE MANIPULACIÓN CON CUIDADO CONFORME A LAS REGLAS DE LA MUNICIPALIDAD.

ATTENTION – RISQUE DE FEU OU D'EXPLOSION SI LE FRIGORIGÈNE EST INFLAMMABLE. SUIVRE LES INSTRUCTIONS DE MANUTENTION AVEC SOIN CONFORMÉMENT AUX RÈGLEMENTATION GOUVERNEMENTALE LOCAUX.

Installation

Please read this manual thoroughly prior to equipment setup, operation, and maintenance.

This unit is intended for use in a temperature-controlled environment of less than 75°F and 55% relative humidity. Malfunction due to improper conditions is not covered under warranty.

Before Installation

- If the unit has recently been transported on its side, please let unit stand upright for a minimum of 24 hours before plugging it in.
- Make sure that the unit has reached the desired temperature before loading the unit with products. This unit is meant for keeping cold products cold, not chilling warm products.
- Make sure that there is proper ventilation around the unit in the area where it will operate.
- Make sure all accessories are installed (i.e., shelves, shelf clips, casters) before plugging the unit in.
- Do not attempt to remove or repair any component of the unit. Consult an authorized service technician for servicing/repair.
- Please do not sit inside the unit.
- Please read through the manual in its entirety.
- The unit should be located away from doors, air ducts, and fans that could disrupt airflow and negatively impact performance.

Cabinet Location Guidelines

- Install the unit on strong and leveled surfaces.
 - If the surface is uneven, the unit may be noisy.
 - The unit may malfunction if the surface is uneven.
 - Uneven floors may cause leakage or water on the floor.
- Install the unit in an indoor, well-ventilated area.
 - For best performance, please maintain clearance of 6" on the front and back of the unit.
 - Do not use outdoors. For indoor use only.
 - Avoid direct sunlight.
- Avoid installation in a high humidity and/or dusty area.
 - Humidity above 55% can cause the unit to rust, collect condensation, and may decrease efficiency.
 - Dust collected on condenser coil will cause unit to malfunction.
 - Malfunction due to temperatures above 75 degrees Fahrenheit, humidity above 55%, or improperly maintained condenser coil will void the warranty.
- Select a location away from heat and moisture-generating equipment.
 - Ambient temperatures above 75 degrees Fahrenheit may cause the compressor to malfunction.
 - Malfunction due to ambient temperatures above 75 degrees Fahrenheit will void warranty.
 - Do not install the unit inside a closet or alcove.

Position the Merchandiser at its final location before removing the shipping skid. There are four bolts at the bottom of the merchandiser that secure the shipping skid. Keep the unit lifted, and remove all four bolts to remove the skid.

Electrical

- Please ensure that the required voltage is being supplied at all times.
- The unit should be plugged into a grounded and properly-sized electrical outlet with appropriate over-current protection. Please refer to the electrical requirements on the unit's nameplate.
- The unit should have its own dedicated outlet.
- Do not use extension cords.
- Ensure the unit is not resting on or against the electrical cord.
- If the unit is not in use for a long period of time, please unplug the unit from the outlet.
- To avoid shock and fire hazards, do not plug in or unplug the unit with wet hands.
- After unplugging the unit, wait at least 10 minutes before plugging it back in. Failure to do so could cause damage to the compressor.

Temperature Controls

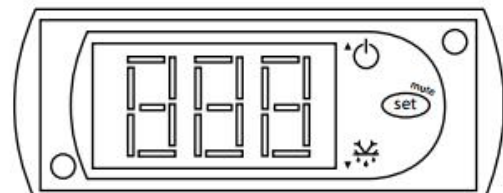
Adjusting the Temperature

- Your new refrigerator is already factory-set to run at optimum temperatures for food safety and should require no adjustments.
- Refrigerators are set to cycle between a minimum temperature of 33°F and a maximum temperature of 40°F.
- Adjusting the temperature changes the **minimum** temperature at which your unit will run. Your unit will not run constantly at this setting. To change it, follow these instructions:

Digital Control Units

1. Hold "SET" for 1 second. The display will flash the current minimum temperature.
2. Use the arrow buttons to adjust the minimum temperature you'd like the unit to run at.
3. Press "SET" again to save your settings.

Refrigerator Control



- Always remember to calculate the differential if you change the minimum temperature setting. The cabinet temperature will fluctuate up to 7°F over your set minimum temperature as the compressor runs and shuts off. Setting the temperature too high will result in unsafe maximum temperatures and possible health code violations.

Defrost System

Refrigerator coils are kept below the freezing point (32 degrees Fahrenheit). During compressor downtime, the evaporator fan continues to circulate air through the evaporator coil. This air circulation raises the coil temperature above the freezing point, melting any accumulated frost. Run-off water is drained into the evaporator pan and evaporated.

To use the merchandiser more safely and energy efficiently, the drainage pipe behind the unit is strongly recommended to a physical drainage line. The drip tray may flood at high humidity circumstance! If you find the unit is leaking water, please check if the drip tray floods. Please connect with drainage outlet to avoid flooding.

Safety Information

Please pay close attention to the safety notices in this section. Disregarding these notices may lead to serious injury and/or damage to the unit.

- To minimize shock and fire hazards, be sure to not overload outlet. This unit should be given its own outlet.
- DO NOT use extension cords.
- DO NOT put your hands under the unit while it is being moved.
- When the unit is not in use for a long period of time, unplug the unit from the outlet.
- After unplugging the unit, wait at least 10 minutes before plugging it back in. Failure to do so could cause damage to the compressor.

Unplug Cord

- To minimize shock and fire hazards, do not plug or unplug the cord with wet hands.
- Unplug the unit before performing maintenance or cleaning.

Proper Grounding Required

- To minimize shock and fire hazards, make sure that the unit is properly grounded.

Warning

- DO NOT attempt to remove or repair any component unless instructed by the factory.
- DO NOT allow the unit to rest on or against the electrical cord and/or plug.
- DO NOT hang on the doors.
- DO NOT store any flammable and explosive gas or liquids inside the unit.
- DO NOT attempt to alter or tamper with the electrical cord.

Operation and Maintenance

NOTE: It is strongly recommended that any servicing of the unit be performed by an authorized service technician.

NOTE: DISCONNECT POWER CORD BEFORE CLEANING ANY PARTS OF THE UNIT.

Loading Product

- **Do not block the air vents.**
- Make sure there is at least four inches of clearance from the evaporator.
- Ensure all shelves are sitting level and properly secured before loading products.
- Do not store flammable and explosive gas or liquids inside the unit.

Cleaning the Fan Blades and Motor

- If necessary, clean the fan blades and motor with a soft cloth.
- If it is necessary to wash the fan blades, cover the fan motor to prevent moisture damage.

Cleaning the Interior of Unit

- When cleaning the cabinet interior, use a solvent of warm water and mild soap.
- Do not use steel wool, caustic soap, abrasive cleaners, or bleach that may damage the interior finish.
- Periodically, remove the shelves and pilasters from the unit and clean them with mild soap and warm water. To remove the pilasters, first remove the shelves and shelf brackets. Then, simply lift the pilaster up and out.

Cleaning the Condenser Coil

- For efficient operation, keep the condenser surface free of dust, dirt, and lint.
- We recommend cleaning the condenser coil at least once per month.
- **A dusty condenser may lead to high energy consumption, less cooling effectiveness, and compressor damage.**

Condenser Coil Cleaning Instructions

NOTE: The condenser coil is located at the bottom behind the panel.

1. Disconnect the electrical power from the unit.
2. Remove the front cover and base cover with a screwdriver.
3. Using a soft brush and/or vacuum, remove the dirt, lint, etc. from the finned condenser coil in a vertical direction.
4. Clean the condenser with a commercial condenser coil cleaner, available from any kitchen equipment retailer. Ex. Noble Chemical Tech Line Coil Cleaners (148TLECCCLNR, 148TLHDCCLNR, 148TLECOILDD, 148TLFMCCLNR, 147TLEVPCLNR, or 147TLHDCCLNR).
5. After cleaning, straighten any bent condenser fins with a fin comb.
6. When finished, be sure to reinstall the front cover and base cover.
7. Reconnect the electrical power to the unit.

Troubleshooting

Problem	Possible Cause	Possible Solution
The unit is making noise under the bottom shelf.	Fan blade is broken.	Replace fan blade.
The unit is not cooling.	Unit is turned off.	Turn unit on.
	Defrost cycle is running.	End defrost cycle.
	Refrigerant leaking.	Contact a licensed service technician.
High cabinet temperature caused by weak air flow.	Evaporator coil is frosted over.	Run a manual defrost cycle.
	Fan is damaged.	Replace the fan.
	The set point on the controller is too high.	Set the controller to a lower temperature. The set temperature is the lowest temperature the refrigerator will reach.
	Air flow is blocked by product.	Rearrange or remove product to allow for complete air flow.
High cabinet temperature with normal air flow.	Refrigerant leaking.	Contact a licensed service technician.
	The set point on the controller is too high.	Set the controller to a lower temperature. The set temperature is the lowest temperature the refrigerator will reach.
	Expansion valve failed.	Contact a licensed service technician.
	The air curtain is being distributed by strong air flow.	Make sure the cabinet is located away from doors, windows, and other air vents.
	High ambient temperature or humidity.	This refrigerator is designed to perform in temperature-controlled environment up to 75 degrees Fahrenheit and 55% relative humidity.
Unit is leaking water.	Condensate evaporator is overflowing.	Use condensate drainage pipe to drain excess water to nearby drain or pump.
	High relative humidity.	This refrigerator is designed to perform in temperature-controlled environment up to 75 degrees Fahrenheit and 55% relative humidity.
	Drainage tube is clogged.	Verify the drainage tube is clear and unobstructed.
	Temperature controller failed.	Contact a licensed service technician.
	Condensate evaporator has failed.	Contact a licensed service technician.

Problem	Possible Cause	Possible Solution
Cabinet temperature is fluctuating.	Condensor coil is dirty.	Clean the condensor coil.
	Unit has improper air flow.	Make sure the unit has at least 6" of clearance on the back and that the front vents are not obstructed.
	Expansion valve blocked or failed.	Contact a licensed service technician.
	Temperature controller failed.	Contact a licensed service technician.
	Low refrigerant levels.	Contact a service technician to check refrigerant levels.
Condensation is collecting on the cabinet and/or floor.	Relative humidity is above 55%.	Move unit to area below relative humidity or lower humidity level.

In case of alarm and error code shown on the controller, please find solution with controller manual.