



Vertical Open Air Merchandisers

08/2018

*189BVAC28HC, 189WVAC28HC, 189BVAC36HC,
189WVAC36HC, 189BVAC46HC, 189WVAC46HC,*

*Please read the manual thoroughly prior to equipment set-up,
operation and maintenance.*



Warning

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.

ATENCION - 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.

ATENCION - 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 set-up, operation and maintenance.

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

Important!!! Please Read Before Installation

- If the unit has recently been transported on its side, please let the unit stand upright for a minimum of 24 hours before plugging it in.
- Make sure 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 all accessories are installed (shelves, shelf clips, etc...) before plugging in the unit.
- Do not attempt to remove or repair any component of the unit. Consult an authorized service technician for servicing / repair.
- Do not stand inside the unit.
- Please read through this manual in its entirety.
- This refrigerator is designed to perform in a temperature-controlled environment less than 75°F and 65% relative humidity. The unit should be located away from doors, air ducts, and fans that could disrupt airflow and negatively impact performance.

Cabinet Location Guides

- Install the unit on a strong and leveled surface.
 - If the surface is uneven, the unit may be noisy.
 - The unit may malfunction if the surface is uneven.
- Install the unit in an indoor, well ventilated area away from doors, air ducts, and fans.
 - For best performance, maintain 6" of clearance on the back of the unit at all times.
 - Do not use outdoors. For indoor use only.
 - Avoid direct sunlight.
- Avoid installation in a high humidity and / or dusty area.
 - High humidity can cause the unit to rust and may decrease efficiency.
 - Dust collected on the condenser coil may cause unit to malfunction.
 - Malfunction due to high ambient temperatures, humidity, or improperly maintained condenser coil will void the warranty.
- Select a location away from heat and moisture-generating equipment.
 - High ambient temperatures may cause the compressor to malfunction.
 - Malfunction due to high ambient temperatures and humidity will void the warranty.



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.

Adjusting the Temperature

Your new refrigerator or freezer 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 your unit will run at. Your unit will not run constantly at this setting. To change it, follow these instructions:

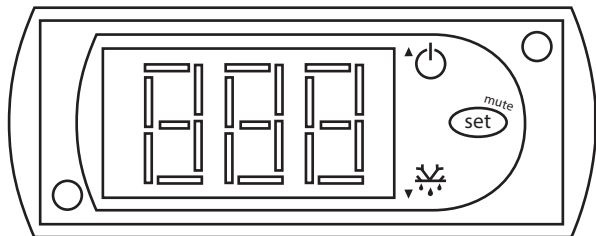
Digital Control Units

- Hold "SET" for 1 sec. The display will flash the current minimum temperature.
- Use the arrow buttons to adjust the minimum temperature you want it to run at.
- Press "SET" again to save your settings

Always remember to calculate the differential if you change the minimum temperature setting. The cabinet temperature will fluctuate up to +4 degrees 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.



Refrigerator Control



Running a Manual Defrost Cycle

This unit is pre-programmed to run automatic defrost cycles at preset intervals. However, if you would like to run a manual defrost cycle at any time, please follow the steps below:

Refrigerators: Press the defrost button (snowflake symbol and down arrow) for approximately 3 seconds. Repeat to stop the defrost cycle.

Defrost System

Refrigerator coils are kept below the freezing point (32 degrees Fahrenheit). During compressor down-time, 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. Freezer coils are defrosted electrically. Automatic defrost timers automatically initiate at pre-set intervals and for a pre-determined duration.

Operation/Maintenance

NOTE: We strongly recommend that any servicing be performed by an authorized service technician.

Loading Product

- Do not block the air duct / fan at the top of the unit. Maintain a minimum of 4" of clearance between products and the fan at all times. Do not block return air flow in the front of the unit.
- 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 Condensor 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.
- Clean the condenser with a commercial condenser coil cleaner, available from any kitchen equipment retailer.

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 shelf brackets from the unit, and clean them with a mild soap and warm water.



Trouble Shooting

The Unit is Making Noise Under the Bottom Shelf

Fan blade is broken.	Replace fan blade.
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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 disturbed 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°F and 65% relative humidity.

Cabinet Temperature is Fluctuating

Condenser 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.

