



BDVACM-250



BDVACM-220



BDVACM-200

Instruction Manual

Vertical Air Curtain Merchandiser

This manual contains important information about your new unit.
Please read this manual carefully before set-up,
operation and maintenance.

WARNINGS

- To minimize shock and fire hazards, be sure not to over load the outlet. One outlet should be designated to the unit only.
- Do not use extension cords.
- Do not put hands under the unit when moving.
- When the unit is not being used for an extended period of time, unplug the unit from the outlet.
- After unplugging the unit, wait at least 10 minutes before re-plugging it. Failure to wait the allotted time may cause damage to the compressor.
- To minimize shock and/or fire hazards, be sure not to plug or unplug the unit with wet hands.
- Before any maintenance or cleaning, unplug the unit as a precaution.
- To minimize shock and fire hazards, make sure that the unit is properly grounded.
- Do not attempt to remove or repair any component.
- Make sure that the unit is not resting on or against the electrical cord or plug.
- Do not hang or lean against door as this may cause personal injury or damage to the door hinge.
- Do not store any flammable and/or explosive gas or liquids inside the unit.
- Do not attempt to alter or tamper with the electrical cord.
- Do not set the desired temperature out of the recommended temperature range: (35.6°F–50°F)

INSTALLATION

BEFORE INSTALLING, PLEASE MAKE SURE:

- If the unit has recently been transported do not use for a minimum of 24 hours before installing.
- Make sure that the unit is at the desired temperature before loading it with product.
- Ensure that the unit will have proper ventilation in the area that it will operate.
- Inspect the unit to verify all accessories (shelves, shelf clips, casters) are equipped with the unit before proceeding with installation.
- Review the entire manual in its entirety. Lack of maintenance or misuse of the unit will void the warranty. Please fill out the registration card and send back to the manufacturer.

Cabinet Location Guidelines

- **Install the unit on a flat sturdy surface**
 - Unit may make abnormal noises if surface is uneven
 - Unit may malfunction if surface is uneven
- **Install the unit in an indoor, well-ventilated area**
 - Unit performs more efficiently in a well-ventilated area
 - Maintain a clearance of at least 4" for the back of the unit
 - Outdoor use may cause decreased performance and may damage the unit
- **Avoid installing the unit in a high humidity and/or dusty area**
 - Exposure to humidity may cause the unit to rust and/or decrease the efficiency of the unit.
 - Dust build up on the condenser coil will cause the unit to malfunction. Clean the condenser at least once a month with a brush or clean cloth. Neglect of maintenance will void the warranty.
- **Select a location away from heat and moisture generating equipment**
 - High ambient temperatures will cause the compressor to overcompensate, leading to higher energy bills and eventual break down of the unit.
 - Malfunction due to high temperatures will void the warranty.

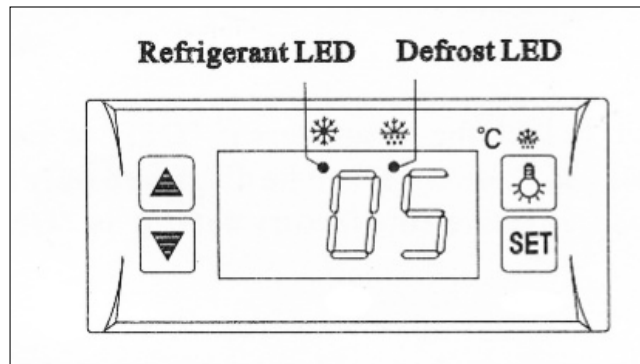
ELECTRICAL

Please ensure that the required voltage of the compressor is constant at all times. Low or high voltage can detrimentally affect the unit and there by void its warranty.

All units should be plugged into a grounded and properly-sized electrical outlet with an appropriate over current protection. Please refer to the electrical requirements on the serial tag located inside the unit. Please make sure that the unit has its own dedicated outlet. Do not use an extension cord.

TEMPERATURE CONTROLS

The temperature controls are factory set to maintain an average temperature of 38 °F. To set a different temperature, adjust the control knob located inside the unit. To decrease the temperature press the down arrow. To increase the temperature press the up arrow.



OPERATIONS

Regulating the Temperature

Your new refrigerator is now manufactured to run at ideal temperatures for food quality and should not require any alterations. Refrigerators are set to cycle between a base temperature of 35.6° degrees Fahrenheit and a highest temperature of 50° degrees Fahrenheit. Altering the temperature changes the base temperature your unit will keep running at. Your unit won't run always at this setting. To change it, follow these guidelines.

DIGITAL CONTROLS

Set temperature:

- Press "SET" button to display the current temperature
- Press the up or down arrow to set the temperature desired
- Press "SET" again to save settings

Illumination:

- Press "light bulb" button to turn lights on and off

Manual defrost:

- Press "light bulb" button and hold for 6 seconds to start and stop defrost cycle

Refrigerant LED Light:

- During refrigeration, the LED light will be on
- When temperature is constant, the LED light will be off
- During delay start, the LED light will flash

Defrost LED Light:

- During defrosting, the LED light will be on
- When defrosting is complete the LED light will turn off
- During delay display of the defrost cycle, the LED light will flash

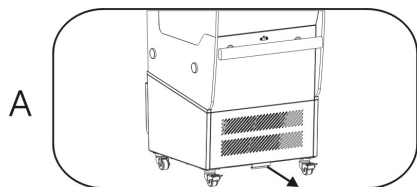
REGULAR MAINTENANCE

Cleaning Condenser:

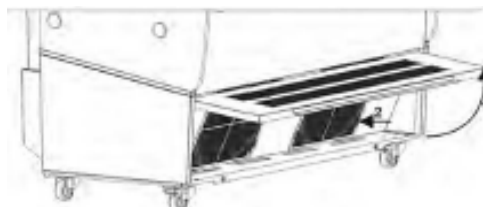
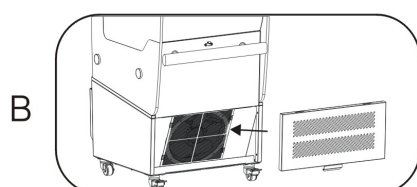
- For efficient operation, it is important that the condenser surface be kept free of dust, dirt, and lint.
- We recommend cleaning the condenser coil and fins at least once per month.
- Clean with a commercial condenser coil cleaner, available from any kitchen equipment retailer. Brush the condenser fins from top to bottom, not side to side.
- After cleaning, straighten any bent condenser fins with a fin comb.

CLEANING FILTER

- Ensure the unit has been disconnected from the power outlet
- Pull out the handle at the front bottom base panel (picture A)
- Remove front bottom base panel
- Remove filter for cleaning (picture B)



VACM-220L & VACM-250L



VACM-200L

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 stainless steel surface
- We recommend cleaning the cabinet once a week
- Disconnect power supply before cleaning

TROUBLESHOOTING

Before requesting any service on the unit, please check the following chart. Service calls resulting from lack of maintenance or misuse are not covered under the warranty and may also void the warranty. Please note that this

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Weak air from air curtain and higher cabinet temperature	Evaporator is iced up Inside fan damaged Thermostat set too low Vents blocked	Increase defrost frequency Replace fan Set thermostat to a higher temperature Remove obstructions
Normal air curtain and higher cabinet temperature	In sufficient refrigerant Thermostat set too high High ambient room temperature or humidity	Refill refrigerant Set thermostat to a lower temperature Lower the room temperature and remove humidity

TROUBLESHOOTING

Before requesting any service on the unit, please check the following chart. Service calls resulting from lack of maintenance or misuse are not covered under the warranty and may also void the warranty. Please note that this guide serves only as a reference for solutions to common problems.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Flooding	Damaged heating pipe Water-level controller failure High ambient room temperature or humidity	Replace pipe Replace water-level controller Lower the room temperature and remove humidity
Normal air curtain, but fluctuating cabinet temperature	Dirty condenser Poor ventilation Compressor Heat Protector failure Capillary obstructed by ice Thermostat failure	Clean condenser Ensure there is adequate space around the unit Replace heat protector Replace drying filter Replace thermostat Replace fan blade
Noise under bottom shelf	Broken fan blade	Power off & replace
Non-refrigerating	Unit turned off Defrosting Refrigerant leak Unit failure	Power on Stop defrosting process Fix leak & refill refrigerant Call for service

NOTE: It is normal to hear the murmur of water when the refrigerator is working normally.

WARRANTY

ONE YEAR WARRANTY

Warrants to the original purchaser of this 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 1 year after shipment date, whichever occurs first.

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

- 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 PART WARRANTY

In addition to the (1) one year warranty stated above, 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 to have been defective within this extended time period will 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 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.

134A (404A) AND R290 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 R134A (R404A) and R290 refrigerant and polyol ester lubricant. The Polyester lubricant has rapid moisture absorbing qualities. If long exposure to the ambient conditions occur, the lubricant must be removed and replaced with new. 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

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. 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. Not responsible for the repair or replacement of any parts that 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) 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. Will accept parts covered under this warranty freight collect, provided that shipment has received prior approval. 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 one (1) year after that cause of action has occurred.
7. This equipment is intended for commercial use only and this warranty is void if equipment is used in other than a commercial application

WARRANTY REGISTRATION CARD

MAIL CARD IMMEDIATELY



This card must be mailed immediately after installation date for warranty to be in effect.

National Service America • 230 Park Ave, 3rd Floor WEST • New York, NY • 10169

_____ (Name of Business)		_____ (Dealer Purchased From)	
_____ (Address)	_____ (City)	_____ (State)	_____ (Zip Code)
_____ (Model Number)		_____ (Serial Number)	

This is to inform that I, _____
(Please print name of individual who owns business)

have had the above installed in my place of business _____
(Date of Purchase)

_____ (Contact Phone Number)	_____ (Contact E-mail)	_____ (Signature of Individual Who Owns Business)
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The above warranties are in effect from this installation date, or 90 days, whichever comes first.