

Installation
Operation
and
Maintenance
Instructions

115 Volt
Commercial Refrigerator
Refrigerator / Freezer
Freezer



UNPACKING YOUR APPLIANCE

Remove Packaging

Your refrigerator has been packed for shipment with all parts that could be damaged by movement securely fastened. Before using, be sure all packing materials and tape have been removed.

Important

Keep your carton packaging until your refrigerator has been thoroughly inspected and found to be in good condition. If there is damage, the packaging will be needed as proof of damage in transit.

Note to Customer

This merchandise was carefully packed and thoroughly inspected before leaving our plant. Responsibility for its safe delivery was assumed by the carrier upon acceptance of the shipment. Claims for loss or damage sustained in transit must be made on the carrier as follows:

- **Exterior Damage:** Make thorough damage notation on your delivery receipt and have driver acknowledge by signature and date. Send a written request asking for an inspection report from carrier. Include the name of the carrier representative and the date the inspection was requested. Retain inspection report and receipt for filing of a claim.
- **Concealed Damage:** This must be reported to carrier within fifteen days. Obtain inspection report from carrier. Retain the inspection report for filing of the claim.

DO NOT RETURN DAMAGED MERCHANDISE TO THE MANUFACTURER - FILE THE CLAIM WITH THE CARRIER.

IMPORTANT SAFETY INSTRUCTIONS

WARNING- When using this appliance, always exercise basic safety precautions, including the following:

- This refrigerator must be properly installed in accordance with the installation instructions before it is used.
- Never unplug your unit by pulling on the power cord. Always grip plug firmly and pull straight out from the outlet.
- Repair or replace immediately all electrical service cords that have become frayed or otherwise damaged. Do not use a cord that shows cracks or abrasion damage along its length or at either the plug or connector end.
- After your unit is in operation, do not touch the cold surfaces, particularly when your hands are damp or wet. Skin may adhere to these extremely cold surfaces.
- Unplug your refrigerator:
 - A) Before making any repairs. NOTE: We strongly recommend any servicing to be performed by a qualified individual.
 - B) Before cleaning.
 - C) Before replacing a burned out light bulb, for units with optional interior light. Turning the temperature control to "O" or "OFF" position does not remove power from the light circuit.

* Do not operate your product in the presence of explosive fumes.

INSTALLATION:

Select Location

The proper location will ensure peak performance of your appliance. Choose a location where the unit will be out of direct sunlight and away from heat sources.

Do not install the unit where the temperature will go below 60°F, because it will not run often enough to maintain proper temperatures.

Do install it on a floor strong enough to support a fully loaded unit.

Cabinet Clearance

Ventilation is required from the bottom front section of the unit. Keep this area open and clear of any obstructions.

Units with fan cooled condensers can be built in. The adjacent cabinets and countertop can be built around the unit as long as no top trim or countertop is installed lower than the top of the hinge.

Leveling Legs

(If supplied) Adjustable legs at the front corners of the unit should be set so the unit is firmly positioned on the floor and the front is raised just enough so the door closes easily when opened about halfway.

Turn leveling legs clockwise to raise unit, counterclockwise to lower it.

Electrical Connection

Check serial plate for correct power supply. Use only electrical power supply as specified on your appliance serial nameplate. **DO NOT USE AN EXTENSION CORD.**

Grounding Method

This product is factory equipped with a power supply cord that has a three-pronged, grounded plug. It must be plugged into a mating grounding type receptacle in accordance with the National Electrical Code and applicable local codes and ordinances (see Figure 1). If the circuit does not have a grounding type receptacle, it is the responsibility and obligation of the customer to exchange the existing receptacle in accordance with the National Electrical Code and applicable local codes and ordinances. The third ground prong should not, under any circumstances, be cut or removed. All U.L. listed refrigerated products are equipped with this type of plug.

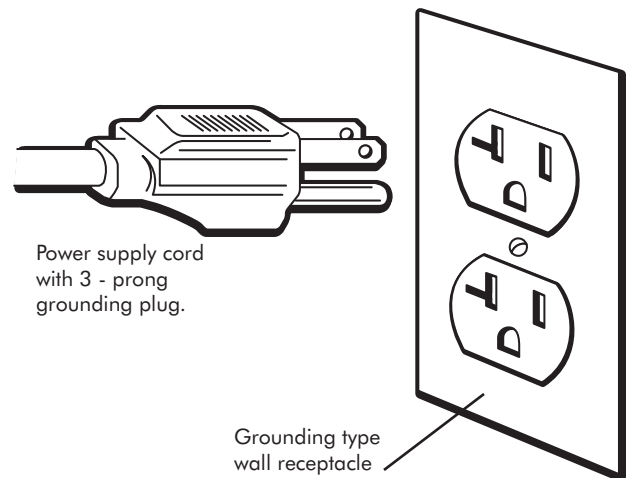


Figure 1

INTERIOR LIGHT (Optional feature):

When supplied with an interior light, to replace the light bulb, proceed as follows:

1. Unplug the power cord from the wall receptacle.
2. Open the cabinet door.
3. Unscrew the existing bulb and replace with an equivalent watt, threaded, intermediate base appliance bulb. Do not replace with a bulb higher than the watts of the replaced bulb.
4. Reassemble.

To clean the light assembly disconnect the power cord and wipe the assembly with a mildly damp cloth. Dry the unit completely before connecting the power cord.

TEMPERATURE CONTROL:

On a temperature control knob, the bigger numbers indicate colder temperature. initially set the temperature control knob midway between the numbers. After at least 2 hours, adjust the temperature that suits you.

DEFROSTING INSTRUCTIONS:

Never use a scraper or any tool that might scratch or pierce the cooling plate or cooling tube. Follow these steps whenever 1/4 inch or more of frost accumulates:

1. Disconnect the power cord and set the cold control knob to "OFF" position.
2. Remove contents and leave door open.
3. Place pans of hot water on the cooling plate, if you wish, to speed up defrosting.
4. Wipe out the interior and replace contents.
5. Connect power cord to outlet.
6. Set temperature control to desired level.

NOTE: All refrigerator models and the refrigerator compartment of 2 door models automatically defrost their cooling plate during each compressor off cycle. No manual defrosting is required.

ENERGY SAVING TIPS:

Ways to save power, save money, and still enjoy your unit.

1. Reduce door openings.
2. Close the door as soon as you can.
3. Keep the coils on bottom or back of the unit clean.
4. Adjust the temperature control to a warmer setting when practical.
5. Do not put hot commodities in the unit.
6. Keep unit away from heat sources and direct sunlight.

CARE AND CLEANING:

Condenser

The condenser tubing under the cabinet for forced air units does not require frequent cleaning; however, satisfactory cooling depends on adequate ventilation over the condenser. Be sure nothing obstructs the required air flow openings in the lower front of the cabinet. At least once or twice a year, brush or vacuum lint and dirt from the condenser for efficient performance by unplugging the power cord from the wall receptacle and unscrewing the grille on the bottom front of the cabinet. Static condenser units with exposed coils on the back of the unit should be inspected periodically and cleaned as required.

Cabinet

The painted cabinet can be washed with mild soap and water and thoroughly rinsed with clear water. NEVER use abrasive scouring cleaners.

Interior and Door Gasket

Wash interior compartment with mild soap and water. A mixture of 2 tablespoons baking soda to 1 quart of water may be used. Do NOT use an abrasive cleaner, solvent, polish cleaner or undiluted detergent.

THINGS TO REMEMBER:

1. Allow 24 hours for your unit to reach a new temperature setting.
2. The motor will start and stop often. It must do this to maintain the temperature you select.
3. Keep your unit reasonably level.
4. Unplug the unit before working on anything with the electrical system.
5. Exercise caution when sweeping, vacuuming, or mopping near the front of the unit. Damage to the grille and / or the light fixtures switch can occur.
6. For all cleaning of the unit, mix 2 tablespoons of baking soda with 1 quart of warm water. Do not use strong cleaners or scouring powder or pads.
7. Keep all flame or sparks away from flammable material storage refrigerators when opening the door to remove or store commodities.
8. Disconnect electrical power before removing F.M.S. refrigerator electrical plug.

TROUBLESHOOTING CHART:

Before Calling for Service

Before calling for service, check the troubleshooting table on this page. This table lists possible problems that you can remedy without difficulty to avoid an unnecessary service call.

PROBLEM	POSSIBLE CAUSES/SOLUTIONS
Odor in cabinet	1. Interior needs cleaning
Noisy operation	1. Cabinet not level
	2. Weak floor
Cabinet vibrates	1. Cabinet not level
	2. Weak floor
Cabinet light not working (optional feature)	1. Bulb burned out
	2. No power at outlet
Appliance will not run	1. Temperature control turned to "OFF"
	2. Power cord not plugged in
	3. No power at electrical outlet
	4. Circuit breaker tripped.
Appliance runs too long	1. Prolonged door openings
	2. Control set too cold
	3. Condenser needs cleaning
Moisture collects inside	1. Too many door openings
	2. Prolonged door openings
	3. Hot, humid weather increases condensation
Moisture collects on outside surface	1. Hot, humid weather increases condensation (as humidity decreases, moisture will disappear)
	2. Control improperly set
Interior too hot/too cold	1. Control improperly set
	2. Faulty thermometer.

Help Prevent Tragedies

Each year children die because they climb inside a discarded refrigeration product, get trapped inside and suffocate. Take precautions to prevent such tragedies by removing the door or by taping or chaining it shut before discarding.

OBTAINING SERVICE:

How to Obtain Service

Your refrigerator/freezer requires little service because the best and most up to date materials, equipment and quality methods are employed throughout the manufacturing process.

If trouble occurs during normal operation, first check the problems in the troubleshooting chart to see if any of these simple steps may correct the problem. If service becomes necessary refer to the warranty enclosed with the owners guide for instructions.

IT IS IMPORTANT THAT YOU SEND IN YOUR WARRANTY RECORD CARD IMMEDIATELY AFTER TAKING DELIVERY OF YOUR REFRIGERATION APPLIANCE.

Every new refrigeration appliance that leaves the factory contains this owners guide. Keep this owners guide in a safe place for convenient reference.

If You Do Need Service

If you do need service, contact your dealer or Northland - Marvel. In any correspondence, refer to the model number and serial number of your unit which is located on the upper left hand side of the wall liner. Flammable material storage models have their serial nameplates on the back of the cabinets. You may want to record these numbers in the space below.

For Your Records	
Date of Purchase	
Dealer's Name	
Dealer's Address	
Dealer's City	
Dealer's State	
Dealer's Zip	
Appliance Serial Number	
Model Number	
Date Warranty Card Sent (Must be within 10 Days of Purchase)	

COMMERCIAL REFRIGERATION PRODUCTS WARRANTY

Entire Product - One Year Parts and Labor Warranty

Marvel warrants to the original purchaser that it will supply all necessary parts and labor to repair or replace in the end user's establishment, any component which is found by an authorized representative of Marvel to be defective in materials or workmanship, subject to the conditions and exclusions stated below, for a period of one year from the date of purchase by the end user.

Refrigeration System - Additional Second Through Fifth Year Parts Only Warranty

During the four years following expiration of the one year limited warranty, Marvel warrants to the original purchaser that it will supply replacement parts for the hermetically sealed refrigeration system which consists of the compressor, evaporator, condenser, drier, and connecting tubing that are found to be defective in workmanship or materials. Other parts, labor costs, and freight charges are the responsibility of the end user.

If Marvel is unable to repair or replace the defective product or component, Marvel shall issue a credit to the buyer for all or part of the purchase price, as Marvel shall determine. The repair, replacement or payment in the manner described above shall be the sole and exclusive remedy of buyer for a breach of this warranty.

Buyer must give written notice of any alleged defect in the product to Marvel within 30 days after discovery of the defect by buyer. If notice is not given within such period, any claim for breach of warranty shall be conclusively deemed to have been waived, and Marvel shall not be liable under these warranties. Marvel or its agents shall be entitled to examine the product. Marvel shall have the option of requiring the return of the defective component, transportation prepaid, to establish the claim. The acceptance by Marvel of any component returned shall not be deemed an admission that the product is defective or in breach of any warranty and, if Marvel determines that the product is not defective, the component shall be reshipped to the buyer at the buyer's expense. No component will be returned to Marvel without its prior consent.

The above warranties do not cover:

- Shipping costs of replacement parts or returned defective parts.
- Customer education or instructions on how to use the refrigerator/freezer.
- Any content loss, or incidental or consequential damage or loss due to product failure.
- Removal or installation.

Nor do the above warranties cover failure of this product or its components due to:

- Transportation, damage sustained in transit or subsequent damages.
- Use in hostile environments or use for storage of contents hostile to the product.
- Improper installation, misuse, abuse, accident or alteration, use on wiring not conforming to electrical codes, low voltages, failure to provide necessary maintenance, or other unreasonable use.
- Parts or service not supplied or designated by Marvel.

The above warranties also do not apply if:

- The original bill of sale, deliver date, or serial number cannot be verified.
- The refrigeration equipment is not in the possession of the original end use purchaser.

The warranties set forth herein are the only warranties extended by Marvel Industries and are in lieu of all warranties, express, implied, statutory or otherwise. In particular, Marvel makes no warranty of merchantability or fitness for a particular purpose.

Marvel's liability for any defect in the product shall not exceed the purchase price of the product. **Marvel shall have no liability for consequential damages of any kind whatsoever, including, but not limited to, personal injury, property damage, lost profits or other economic injury due to any defect in the product.**

No person, firm, or corporation is authorized to modify, expand or extend these warranties, to waive any of the limitations or exclusions, or to make any other warranty or assume any other obligation for Marvel Industries. These warranties apply only to products used in any of the fifty states of the United States and the District of Columbia.

To obtain performance of this warranty, report any defects to:

Marvel Scientific
P.O. Box 400
1260 E. Van Deine St.
Greenville MI 48838-0400
Phone: 616.754.5601
Toll-Free: 800.223.3900

NOTES:



www.marvelscientific.com

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41004385 Rev C
04.15.09

All specifications and product designs subject to change without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions, replacements or compensation for previously purchased products.