



GETTING STARTED

QUICK REFERENCE GUIDE

MARVEL UNDERCOUNTER REFRIGERATION

MODR224

MOFZ224

MORF224

MORI224



THE ORIGINAL REFRIGERATION EXPERTS SINCE 1892

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Welcome to the Marvel Experience

Thank you for choosing our quality American-built product to add to your home. We are thrilled to welcome you to our growing community of Marvel owners, who trust in our products and our support.

The information in this guide is intended to help you install and maintain your new Marvel undercounter model to protect and prolong its lifetime. We encourage you to contact our Technical Support team at (616) 754-5601 with any questions.

Got a Marvelous Design?

We would love to see how your Marvel product looks in its new home. Send us photos at marketing@marvelrefrigeration.com, and we might feature your Marvel home design on our website and social media!

Thank you again for investing in Marvel for your home!

Important Safety Instructions

Warnings and safety instructions appearing in this guide are not meant to cover all possible conditions and situations that may occur. Common sense, caution, and care must be exercised when installing, maintaining, or operating this appliance.

Recognize Safety Symbols, Words, and Labels.



WARNING

WARNING - You can be killed or seriously injured if you do not follow these instructions.



CAUTION

CAUTION-Hazards or unsafe practices which could result in personal injury or property / product damage.

NOTE

NOTE-Important information to help assure a problem free installation and operation.



WARNING

State of California Proposition 65 Warning:

This product contains one or more chemicals known to the State of California to cause birth defects or other reproductive harm.



WARNING

State of California Proposition 65 Warning:

This product contains one or more chemicals known to the State of California to cause cancer.



WARNING

WARNING-This unit contains R600a (Isobutane) which is a flammable hydrocarbon. It is safe for regular use. Do not use sharp objects to expedite defrosting. Do not damage refrigerant circuit.

UNPACKING YOUR APPLIANCE



WARNING

EXCESSIVE WEIGHT HAZARD

Use two or more people to move product.
Failure to do so can result in personal injury.

Remove Interior Packaging

Your appliance has been packed for shipment with all parts that could be damaged by movement securely fastened. Remove internal packing materials and any tape holding internal components in place. The owners manual is shipped inside the product in a plastic bag along with the warranty registration card, and other accessory items.

Important

Keep your carton and packaging until your appliance 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. Afterwards please dispose of all items responsibly.



WARNING

WARNING - Dispose of the plastic bags which can be a suffocation hazard.

Note to Customer

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

NOTE

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



CAUTION

If the appliance was shipped, handled, or stored in other than an upright position for any period of time, allow the appliance to sit upright for a period of at least 24 hours before plugging in. This will assure oil returns to the compressor. Plugging the appliance in immediately may cause damage to internal parts.

Warranty Registration

It is important you send in your warranty registration card immediately after taking delivery of your appliance or you can register online at www.marvelrefrigeration.com.

The following information will be required when registering your appliance.

Service Number

Serial Number

Date of Purchase

Dealer's name and address

Online registration available at www.marvelrefrigeration.com

The service number and serial number can be found on the serial plate which is located inside the cabinet on the left side near the top. See figure 1.

MARVEL	
GREENVILLE, MI 48838	
MODEL NO.	
SERVICE NO.	XXXXXXXXXXXX
SERIAL NO.	XXXXXXXXXXXX
HZ	VOLTS AMPS R600A g
TEST PRESSURE 140 PSI LOW SIDE 300 PSI HIGH SIDE	

Figure 1



WARNING

WARNING - Help Prevent Tragedies

Child entrapment and suffocation are not problems of the past. Junked or abandoned refrigerators are still dangerous - even if they sit out for "just a few hours".

If you are getting rid of your old refrigerator, please follow the instructions below to help prevent accidents.

Before you throw away your old refrigerator or freezer:

- Take off the doors or remove the drawers.
- Leave the shelves in place so children may not easily climb inside.

INSTALLING YOUR APPLIANCE

Select Location

The proper location will ensure peak performance of your appliance. We recommend a location where the unit will be out of direct sunlight and away from heat sources. To ensure your product performs to specifications, the recommended installation location temperature range is from 55 to 100°F (13 to 38°C).

Cabinet Clearance

Ventilation is required from the bottom front of the appliance. Keep this area open and clear of any obstructions. Adjacent cabinets and counter top can be installed around the appliance as long as the front grille remains unobstructed. All Marvel Professional models with articulated hinges are intended for built-in applications only.



CAUTION

Front Grille

Do not obstruct the front grille. The openings within the front grille allow air to flow through the condenser heat exchanger. Restrictions to this air flow will result in increased energy usage and loss of cooling capacity. For this reason it is important this area to not be obstructed and the grille openings kept clean. Marvel does not recommend the use of a custom made grille as air flow may be restricted.

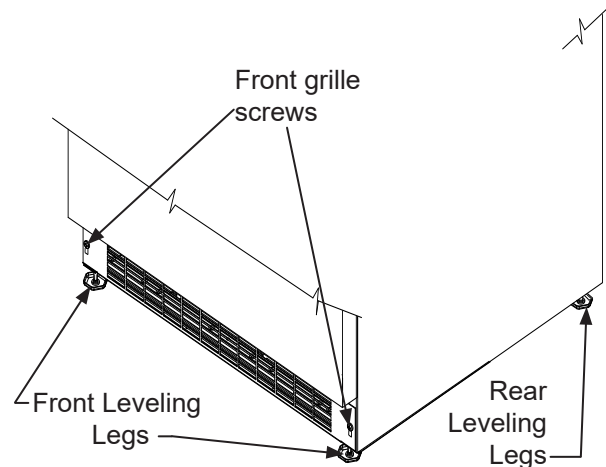


Figure 2

Leveling Legs

Adjustable legs at the front and rear corners of the appliance should be set so the unit is firmly positioned on the floor and level from side to side and front to back. The overall height of your Marvel appliance may be adjusted higher (by turning the leveling leg out, CCW) and lower (by turning the leveling leg in, CW).

To adjust the leveling legs, place the appliance on a solid surface and protect the floor beneath the legs to avoid scratching the floor. With the assistance of another person, lean the appliance back to access the front leveling legs. Raise or lower the legs to the required dimension by turning the legs. Repeat this process for the rear by tilting the appliance forward using caution. On a level surface check the appliance for levelness and adjust accordingly.

The front grille screws may be loosened and the grille adjusted to the desired height. When adjustment is complete tighten the two front grille screws. (See Figure 2).

ELECTRICAL

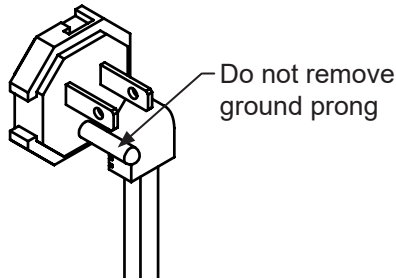


Figure 3

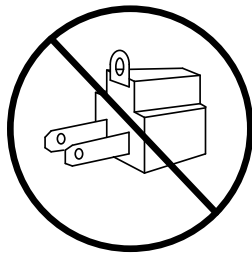


Figure 4

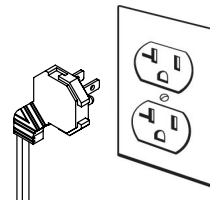


Figure 5

Electrical Connection

A grounded 115 volt, 15 amp dedicated circuit is required.

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 6). If the circuit does not have a grounding type receptacle, it is the responsibility and obligation of the customer to provide the proper power supply. The third ground prong should not, under any circumstances, be cut or removed.

NOTE

Ground Fault Circuit Interrupters (GFCI) are prone to nuisance tripping which will cause the appliance to shut down. GFCI's are generally not used on circuits with power equipment that must run unattended for long periods of time, unless required to meet local building codes and ordinances.



WARNING

Electrical Shock Hazard

- Do not use an extension cord with this appliance. They can be hazardous and can degrade product performance.
- This appliance should not, under any circumstances, be installed to an un-grounded electrical supply.
- Do not remove the grounding prong from the power cord. (See Figure 3).
- Do not use an adapter. (See Figure 4).
- Do not splash or spray water from a hose on the appliance. Doing so may cause an electrical shock, which may result in severe injury or death.

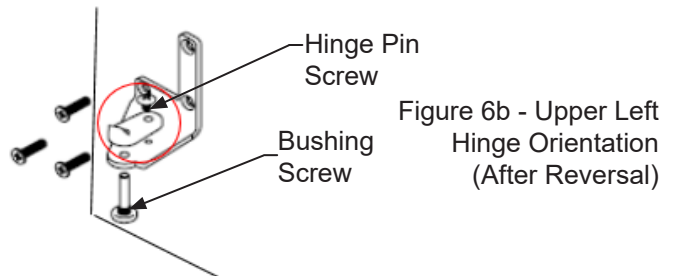
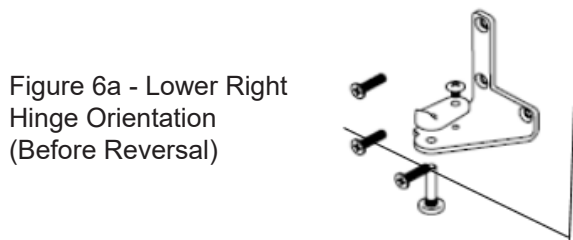
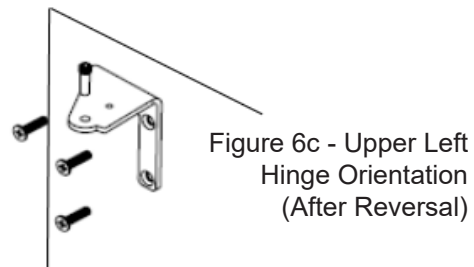
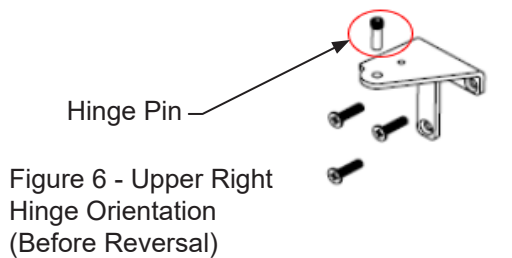
DOOR REVERSAL

Door Reversing Instructions

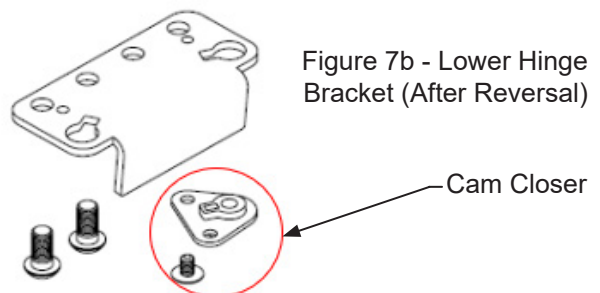
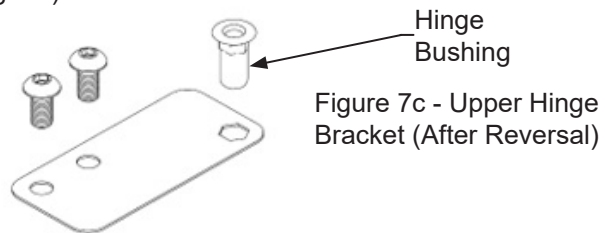
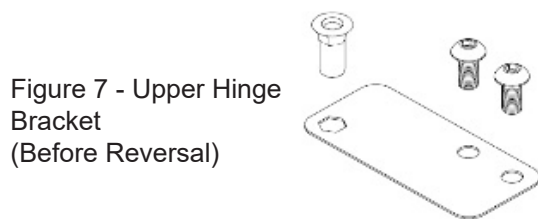
Tools Needed:

- 1/8" Hex Key
- 5/32" Hex Key
- Phillips Screwdriver

1. Open door and remove Hinge Pin from the Upper Hinge using a 1/8" Hex Key tool (Fig. 6), making sure to steady the door. Slowly remove the door from the Upper Hinge and lift to remove off the base Lower Hinge.
2. Using a Phillips Screwdriver, remove the 6 screws from both the Upper and Lower Hinges and save for later steps
3. Once the Hinges are removed from the unit, using a Phillips Screwdriver, remove the Bushing Screw and Hinge Pin Screw and save for later steps (Fig. 6a).
4. On the Bottom Hinge, reattach the Bushing Screw and Hinge Pin Screw to the opposite side (Fig. 6b)

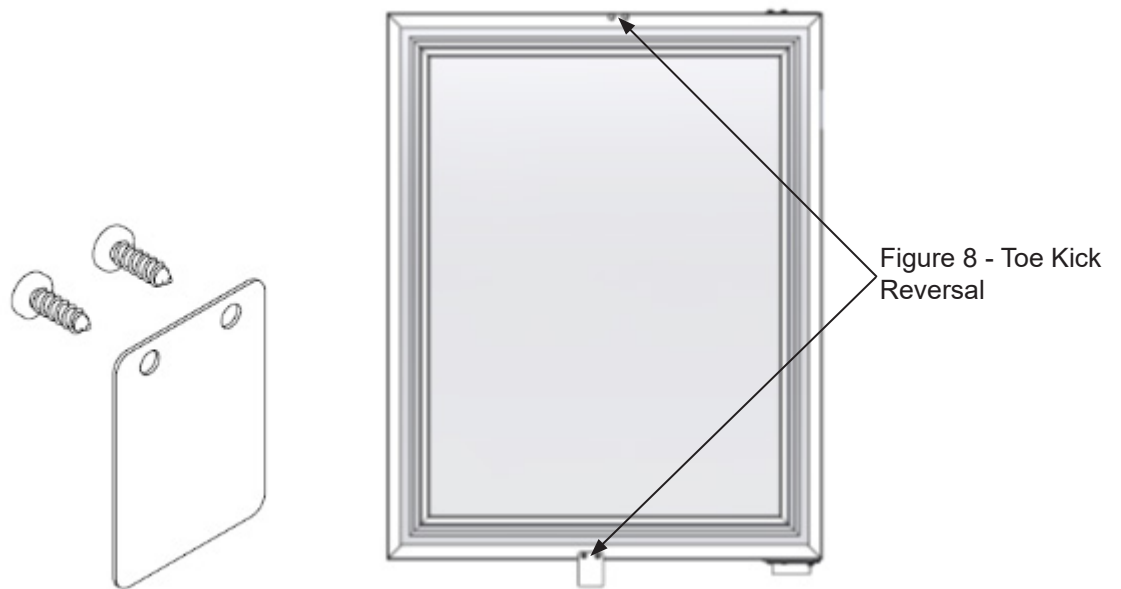


5. Using a 5/32" Hex Key, remove the Upper and Lower Hinge Brackets from the door (Fig. 7), saving all components. Remove black plugs from opposite side of door. flip the Upper Hinge Bracket and reattach the Hinge Bushing (Fig. 7) and screw into place on the opposite side of the door (where plugs were removed). Remove the Cam Closer from the Lower Hinge Bracket (Fig. 7) and attach it to the opposite side (Fig. 7b).



DOOR REVERSAL

6. Remove the Toe Kick from the door and attach it to the opposite side (Fig. 8).



7. Reattach the Upper and Lower Hinges, and Hinge Brackets to opposite sides. Then install the door.

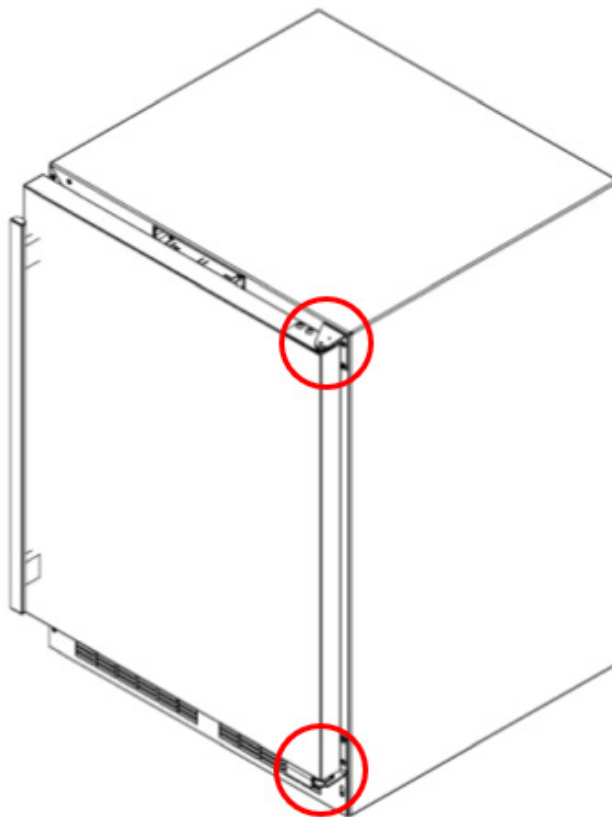


Figure 9

INSTALLING THE ANTI TIP DEVICE



WARNING



- ALL APPLIANCES CAN TIP RESULTING IN INJURY.
- INSTALL THE ANTI-TIP BRACKET PACKED WITH THE APPLIANCE.
- FOLLOW THE INSTRUCTIONS BELOW

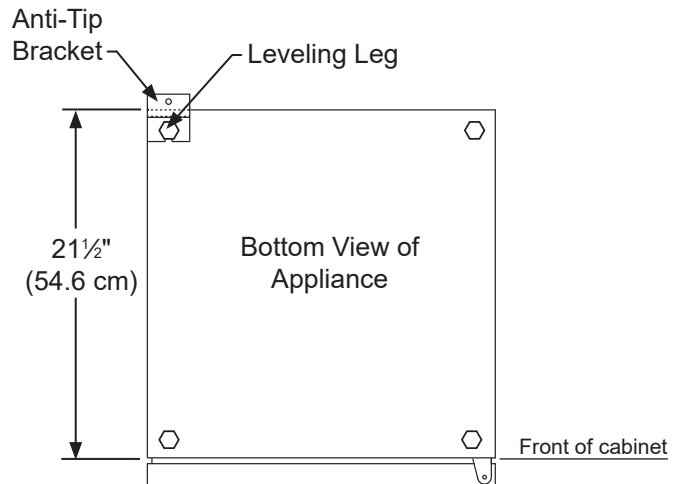


Figure 12

Anti-Tip Device



WARNING

If your appliance is not located under a counter top (free standing), you must use an anti-tip device installed as per these instructions. If the unit is removed from its location for any reason, make sure that the device is properly engaged with the anti-tip bracket when you push the appliance back into the original location. If the device is not properly engaged, there is a risk of the appliance tipping over, with the potential for property damage or personal injury.

NOTE

If installing on a concrete floor, concrete fasteners are required, (not included with the anti-tip kit).



CAUTION

Any finished flooring should be protected with appropriate material to avoid damage when moving the unit.

Floor Mount Installation

The anti-tip bracket is to be located on the floor in the left or right rear corner of the appliance as shown in "Figure 12".

*** FOR FULL INSTALLATION INSTRUCTIONS, REFER TO THE PRODUCT OWNER'S GUIDE ONLINE AT WWW.MARVELREFRIGERATION.COM

USING YOUR ELECTRONIC CONTROL

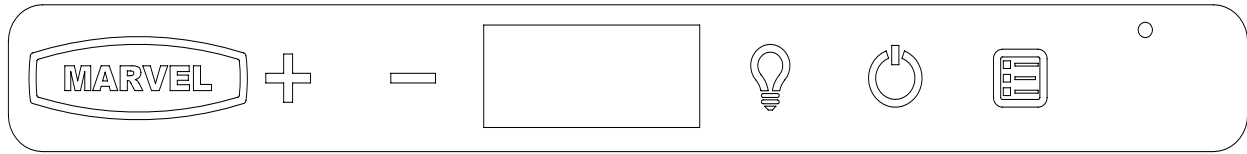


Figure 13
Electronic control

Control Function Guide

Function	Command	Notes
ON/OFF	Press  and hold for 5 seconds.	Unit will immediately turn ON or OFF.
Adjust Temperature	Press  or  and release.	When the display is flashing, press  or  to adjust the set point temperature. Note: temperature displayed is the actual temperature inside unit.
Toggle Between °F / °C	Hold  and  for 5 seconds.	The display will change units.
Leave Interior Light On	Press  and release to leave interior light on for 12 hours; press again to deactivate.	After 12 hours, factory default is restored; light will turn on when door is open.
Hide Display	Hold  and press  .	Display will turn off when door is closed. Unit will continue to operate. Repeat command to turn on display.
Enable Sabbath Mode	Press  and hold for 5 seconds and release.	The °F / °C symbol will flash briefly after 5 seconds. Interior light and display will go dark and remain so until user resets mode - unit continues to operate.
Disable Sabbath Mode	Press  and release.	Display and interior light return to normal operation.

Door Alert Notification

When the door is left open for more than 5 minutes:

-  will appear in display
- Close door to reset

High/Low Temp. Notifications

When the compartment temperature exceeds the control setting for an extended amount of time:

- "HH" will appear in display (High Temp)
- "LL" will appear in display (Low Temp)

Contact service dept. for further instructions.

NOTE

Temperature displayed reflects actual temperature inside unit. If the temperature displayed is different than selected, the unit is progressing towards the selected temperature. Time to reach set point varies based upon ambient temperature, temperature of product loaded, door openings, etc. Marvel recommends allowing the unit to reach set points before loading.

CARE AND CLEANING

Outdoor Product Long-Term Storage / Winterization:

1. Time to Winterize, when the daily low ambient temperature is at or below 38°F (3.3°C).



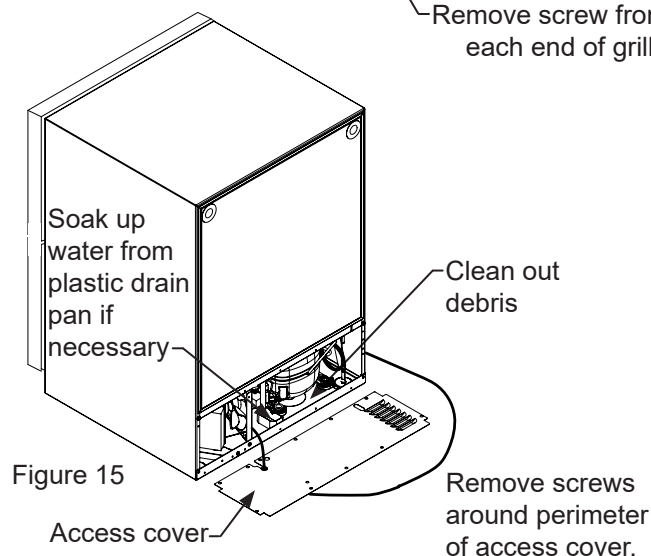
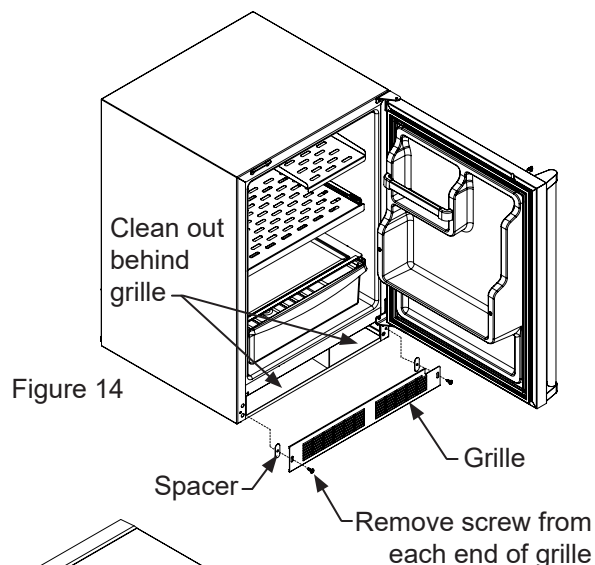
CAUTION

Operation of the unit at ambient temperatures below the recommended Winterization temperature will void your warranty.

2. Turn unit off, (see page 10)
3. Remove all contents.
4. If necessary, move the unit so you can gain access to the rear of the product.
5. Unplug the unit from the power outlet.
6. It is also recommended that the power to the outlet be turned-off if the circuit is not required for other items during the Winter season.
7. When cleaning unit pay particular attention to any cracks and crevices that may have accumulated dirt and debris.
8. Remove the front toe-grille, (see Figure 14), and use a brush and vacuum to clean dirt and debris from beneath the unit.
9. Thoroughly clean the toe-grille and re-install on the unit. (See Figure 14).
10. Remove the rear access cover, (see Figure 15), and use a brush and vacuum to clean dirt and debris from the machine compartment.
 - If the plastic defrost drain pan located under the compressor contains water, use a sponge to remove as much water as possible.
11. Thoroughly clean the rear access cover and re-install on the unit.
12. Wipe down all interior surfaces with anti-bacterial cleaner to be followed with clean rinse water to remove any residual chemicals which could cause staining. Do not use any abrasive cleaners or scouring pads.
13. Leave the door open and allow to completely dry out before closing the door.
14. Thoroughly clean the door gasket with anti-bacterial cleaner to be followed with clean rinse water to remove any residual chemicals.
15. Thoroughly clean the exterior with a cleaner approved for stainless steel. Do not use any abrasive cleaners or scouring pads. See "Stainless Steel Maintenance" on page 16.
16. Any mounting hardware / fasteners that are showing signs of corrosion should be replaced.
17. Once the exterior has been thoroughly cleaned, you may want to apply a coating of car wax to help protect against spotting from moisture, dirt, and debris that may accumulate on the surfaces during the Winterization period.

18. Do not place a cover on the unit, as this can trap condensation.

After completion of the above, you may choose to store the unit indoors, although this is not required.



Start-Up After Long-Term Storage:

1. If stored outside, it is recommended that the unit again be thoroughly inspected per the storage instructions above to address any dirt or debris from the weather and/or animals/insects.
2. Connect the unit to electrical power.
3. Turn unit on and confirm your desired control settings.
4. Allow 24-hrs for the unit to stabilize before loading contents.

STAINLESS STEEL MAINTENANCE AND ENERGY SAVING TIPS

Background

Stainless steel does not stain, corrode, or rust as easily as ordinary steel, but it is not stain or corrosion proof. Stainless steels can discolor or corrode if not maintained properly.

Stainless steels differ from ordinary carbon steels by the amount of chromium present. It is this chromium that provides an invisible protective film on the surface called chrome-oxide. This protective chrome-oxide film on the surface can be damaged or contaminated, which may result in discoloration, staining, or corrosion of the base metal.

Care & Cleaning

Routine cleaning of the stainless steel surfaces will serve to greatly extend the life of your product by removing contaminants. This is especially important in coastal areas which can expose the stainless to severe contaminants such as halide salts, (sodium chloride).

It is strongly recommended to periodically inspect and thoroughly clean crevices, weld points, under gaskets, rivets, bolt heads, and any locations where small amounts of liquid could collect, become stagnant, and concentrate contaminants. Additionally, any mounting hardware that is showing signs of corrosion should be replaced.

Frequency of cleaning will depend upon the installation location, environmental, and usage conditions.

Choosing a Cleaning Product

The choice of a proper cleaning product is ultimately that of the consumer, and there are many products from which to choose. Depending upon the type of cleaning and the degree of contamination, some products are better than others.

Typically the most effective and efficient means for routine cleaning of most stainless steel products is to give the surfaces a brisk rubbing with a soft cloth soaked in warm water and a gentle detergent, or mild mixture of ammonia. Rubbing should, to the extent possible, follow the polish lines of the steel, and always insure thorough rinsing after cleaning.

Although some products are called "stainless steel cleaners," some may contain abrasives which could scratch the surface, (compromising the protective chrome-oxide film), and some many contain chlorine bleach which will dull, tarnish or discolor the surface if not completely removed.

After the stainless surfaces have been thoroughly cleaned, a good quality car wax may be applied to help maintain the

NOTE

finish.

Stainless steel products should never be installed, or stored in close proximity to chlorine chemicals.

Whichever cleaning product you chose, it should be used in strict accordance with the instructions of the cleaner

Energy saving tips:

The following suggestions will minimize the cost of operating your refrigeration appliance.

1. Do not install your appliance next to a hot appliance (cooker, dishwasher, etc.), heating air duct, or other heat sources.
2. Install product out of direct sunlight.
3. Ensure the front grille vents at front of appliance beneath door are not obstructed and kept clean to allow ventilation for the refrigeration system to expel heat.
4. Plug your appliance into a dedicated power circuit. (Not shared with other appliances).
5. When initially loading your new product, or whenever large quantities of warm contents are placed within refrigerated storage compartment, minimize door openings for the next 12 hours to allow contents to pull down to compartment set temperature.
6. Maintaining a relatively full storage compartment will require less appliance run time than an empty compartment.
7. Ensure door closing is not obstructed by contents stored in your appliance.
8. Allow hot items to reach room temperature before placing in product.
9. Minimize door openings and duration of door openings.
10. Use the warmest temperature control set temperature that meets your personal preference and provides the proper storage for your stored contents.
11. When on vacation or away from home for extended periods, set the appliance to warmest acceptable temperature for the stored contents.
12. Set the control to the "off" position if cleaning the appliance requires the door to be open for an extended period of time.

HOUSEHOLD PRODUCT WARRANTY

Marvel Refrigeration (Marvel) Limited Warranty

ONE YEAR LIMITED PARTS & LABOR WARRANTY

For one year from the date of original purchase, this warranty covers all parts and labor to repair or replace any part of the product that proves to be defective in materials or workmanship. For products installed and used for normal residential use, material cosmetic defects are included in this warranty, with coverage limited to 60 days from the date of original purchase. All service provided by Marvel under the above warranty must be performed by a Marvel factory authorized servicer, unless otherwise specified by Marvel. Service provided during normal business hours.

TWO YEAR LIMITED PARTS & LABOR WARRANTY (MARVEL PROFESSIONAL PRODUCTS)

For two years from the date of original purchase, this warranty covers all parts and labor to repair or replace any part of the product that proves to be defective in materials or workmanship. For products installed and used for normal residential use, material cosmetic defects are included in this warranty, with coverage limited to 60 days from the date of original purchase. All service provided by Marvel under the above warranty must be performed by a Marvel factory authorized servicer, unless otherwise specified by Marvel. Service provided during normal business hours.

AVAILABLE THIRD YEAR LIMITED WARRANTY (MARVEL PROFESSIONAL PRODUCTS)

For designated Marvel Professional product, Marvel offers a one year extension of the two year warranty coverage from the date of purchase, free of charge. To take advantage of this third year warranty, you must register your product with Marvel within 60 days from the date of purchase at marvelrefrigeration.com and provide proof of purchase. Nugget Ice Machine proof of purchase must include the purchase of an in-line water filter and filter head to qualify for this additional limited warranty.

LIMITED FIVE YEAR SEALED SYSTEM WARRANTY

For five years from the date of original purchase, Marvel will repair or replace the following parts, labor not included, that prove to be defective in materials or workmanship: compressor, condenser, evaporator, drier, and all connecting tubing. All service provided by Marvel under the above warranty must be performed by a Marvel factory authorized servicer, unless otherwise specified by Marvel. Service provided during normal business hours.

WARRANTY TERMS

These warranties apply only to products installed in any one of the fifty states of the United States, the District of Columbia, or the ten provinces of Canada. The warranties do not cover any parts or labor to correct any defect caused by negligence, accident or improper use, maintenance, installation, service, repair, acts of God, fire, flood or other natural disasters. The product must be installed, operated, and maintained in accordance with the Marvel User Guide.

The remedies described above for each warranty are the only ones that Marvel will provide, either under these warranties or under any warranty arising by operation of law. Marvel will not be responsible for any consequential or incidental damages arising from the breach of these warranties or any other warranty, whether express, implied, or statutory. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. These warranties give you specific legal rights, and you may also have other rights which vary from state to state.

Any warranty that may be implied in connection with your purchase or use of the product, including any warranty of merchantability or any warranty fit for a particular purpose is limited to the duration of these warranties, and only extends to five years in duration for the parts described in the section related to the five year limited warranty above. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

- The warranties only apply to the original purchaser and are non-transferable.
- The second, third, and five year warranties cover products installed and used for normal residential use only.
- The warranties apply to units operated outside only if designed for outdoor use by model and serial number.
- Replacement water filters, light bulbs, and other consumable parts are not covered by these warranties.
- The start of Marvel's obligation is limited to four years after the shipment date from Marvel.
- In-home instruction on how to use your product is not covered by these warranties.
- Food, beverage, and medicine loss are not covered by these warranties.
- If the product is located in an area where Marvel factory authorized service is not available, you may be responsible for a trip charge or you may be required to bring the product to a Marvel factory authorized service location at your own cost and expense.
- Units purchased after use as floor displays, and/or certified reconditioned units, are covered by the limited one year warranty only and no coverage is provided for cosmetic defects.
- Signal issues related to Wi-Fi connectivity are not covered by these warranties.

For parts and service assistance, or to find Marvel factory authorized service near you, contact Marvel Refrigeration:

MarvelRefrigeration.com • techsupport@MarvelRefrigeration.com • +616.754.5601

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