

# OWNERS GUIDE

MARVEL PROFESSIONAL UNDERCOUNTER REFRIGERATION

FOR MODEL # MPRI424



THE ORIGINAL REFRIGERATION EXPERTS SINCE 1892

#### WELCOME

#### **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!

## **Bonus Third-Year Warranty Free with Product Registration**

Your Marvel Professional product qualifies for a one-year extension of the two-year warranty coverage from your date of purchase, free of charge. To take advantage of this third-year warranty, be sure to register your product with Marvel within 60 days from the date of purchase at marvelrefrigeration.com and provide proof of purchase.



Thank you again for investing in Marvel for your home!

#### **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.

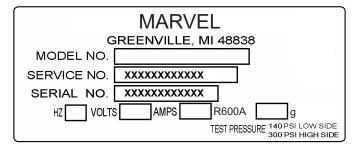


Figure 1

#### **TABLE OF CONTENTS**

## Tip: Click on any section below to jump directly there

**Safety** Warranty

Important Safety Instructions

#### Installation

Unpacking Your Appliance

Electrical

Installing Your Appliance

Side-by-Side & Stacking Installations

Installing the anti-tip device

Door Reversal

Integrated Panel Dimensions

Integrated Panel Installation

#### Maintenance

Care and Cleaning

Extended Non-Use

#### Operating Instructions

Using Your Electronic Control

**Energy Savng Tips** 

#### Service

Obtaining Service

Product Liability

Ordering Replacement Parts

R600a Specifications

System Diagnosis Guide

Troubleshooting Extended

Control Operation - Service

Thermistor

Replace Ice Maker

#### IMPORTANT SAFETY INSTRUCTIONS

#### **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.

## **A** 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.



## **WARNING**

#### **WARNING - Help Prevent Tragedies**

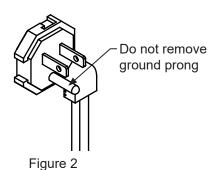
Child entrapment and suffocation are not problems of the past. Junked or abandoned refrigerators are still dangerous - even if they sit out for "just a few hours".

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.

#### **ELECTRICAL**



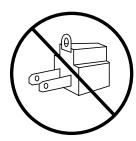


Figure 3

#### **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 4). 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.

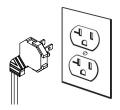


Figure 4

## **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 2).
- Do not use an adapter. (See Figure 3).
- 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.

#### **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.



## **WARNING**

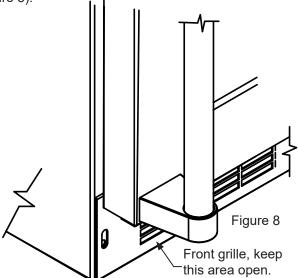
An optional stacking kit, for 24" wide models, is required to stack products. Failure to use a stacking kit could result in personal injury. Contact your dealer or Marvel customer service at 616-754-5601 to order. For safety concerns 15" wide models should not be stacked.

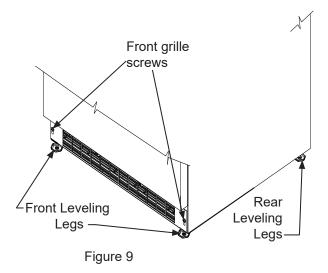


## **CAUTION**

#### 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. (See Figure 8).





#### 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 9).

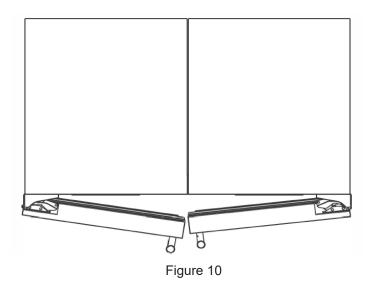
#### SIDE-BY-SIDE AND STACKING INSTALLATIONS

## Side-by-Side Installation

#### **Other Site Requirements**

Units must operate from separate, properly grounded electrical receptacles placed according to each unit's electrical specifications requirements.

Cutout width for a side-by-side installation is the total of the widths listed under Cutout Dimensions in each unit's Installation Guide. Each door can be opened individually (one at a time) without interference.



However, to ensure unobstructed door swing (opening both doors at the same time), 1/4" (6.4 mm) of space needs to be maintained between the units.

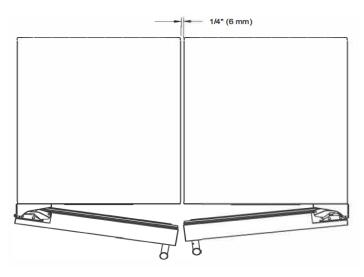


Figure 11

#### **Hinge-by-Hinge Installation (Mullion)**

When installing two units hinge-by-hinge, 13/16" (22 mm) is required for integrated models. Additional space may be needed for any knobs, pulls or handles installed.

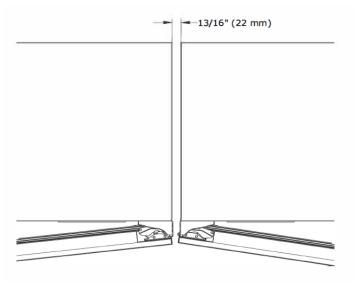


Figure 12

Stainless steel models which include the standard stainless handle will require 4-9/16" (116 mm) to allow both doors to open to 90° at the same time.

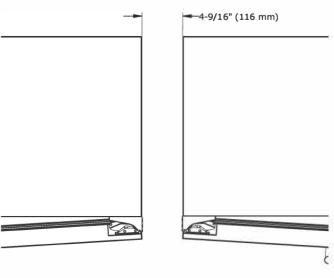


Figure 13

#### INSTALLING THE ANTI TIP DEVICE





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

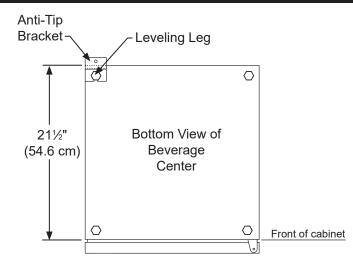


Figure 14

### **Anti-Tip Device**



## **WARNING**

If your beverage center is not located under a counter top (free standing), you must use an anti-tip device installed as per these instructions. If the beverage center 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 beverage center back into the original location. If the device is not properly engaged, there is a risk of the beverage center 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).

## **A** 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 wine cellar as shown in Figure 14.

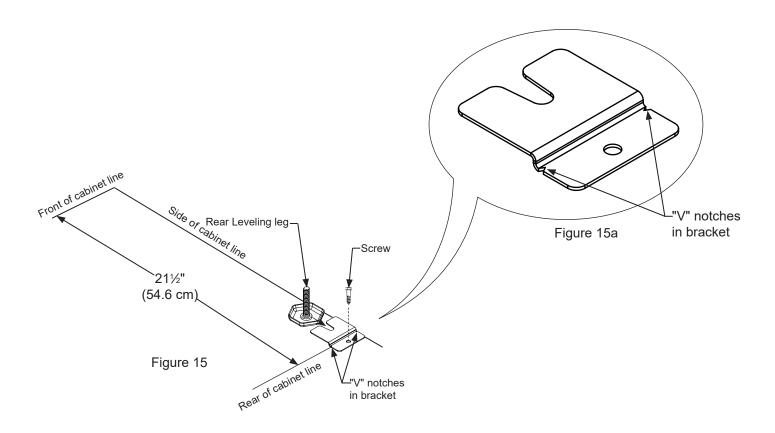
## Step by step instructions for locating the position of the bracket:

- 1) Decide where you want to place the beverage center. Slide it into place, being careful not to damage the floor, leaving 1" (2.5 cm) of clearance from the rear wall to allow room for the anti-tip bracket.
- 2) Raise the rear leveling legs approximately '/" (6 mm) to allow engagement with the anti-tip bracket. Level the unit by adjusting all the leveling legs as required. Turning the leveling leg counterclockwise will raise the unit and clockwise will lower the unit.
- 3) Make sure the beverage center is in the desired location, then mark on the floor the rear and side corner of the cabinet where the anti-tip bracket will be installed. If the installation does not allow marking the rear corner of the cabinet, then make temporary lines on the floor marking the front corner of the cabinet, excluding the door. Slide the beverage center out of the way. From the temporary line extend the sidewall line back 21½" (54.6 cm) as shown in Figure 15.
- 4) Align the anti-tip bracket to the marks on the floor so the side of the bracket lines up with the side of the cabinet mark, and the "V" notches on the anti-tip bracket line up with the end of the  $21\frac{1}{2}$ " (54.6 cm) line (Rear of cabinet line).
- 5) Fasten the anti-tip bracket to the floor using the supplied screw. (See Figure 15).
- 6) Slide the cabinet back into position, making sure the rear cabinet leveling leg slides under the anti-tip bracket engaging the slot.

### **INSTALLING THE ANTI TIP DEVICE**

## **NOTE**

When the floor mounted anti-tip bracket is used the minimum adjusted height of the cabinet is increased by %" (9 mm).



#### **DOOR REVERSAL**

### **Door Reversing Instructions**

- 1. Open door.
- 2. Loosen screw #1 and #2 using a Philips Screwdriver on top and bottom hinge. Slide door and remove the door from the unit.

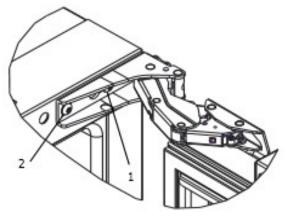


Figure 16

3. Once door is removed, using a Philips Screwdriver remove screws from magnet actuator located on inside and bottom of door. (On Integrated Models magnet actuator will be located on bottom of door.

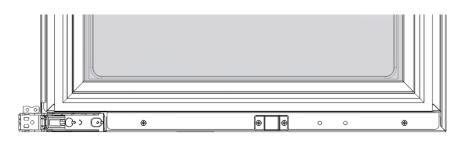
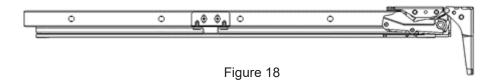
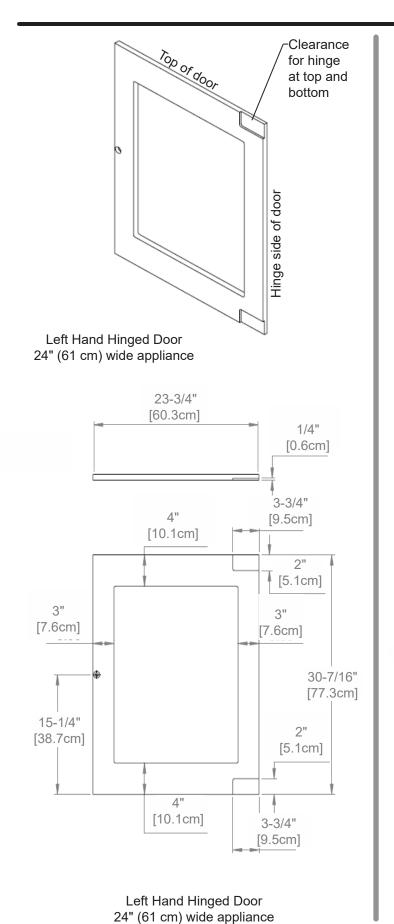


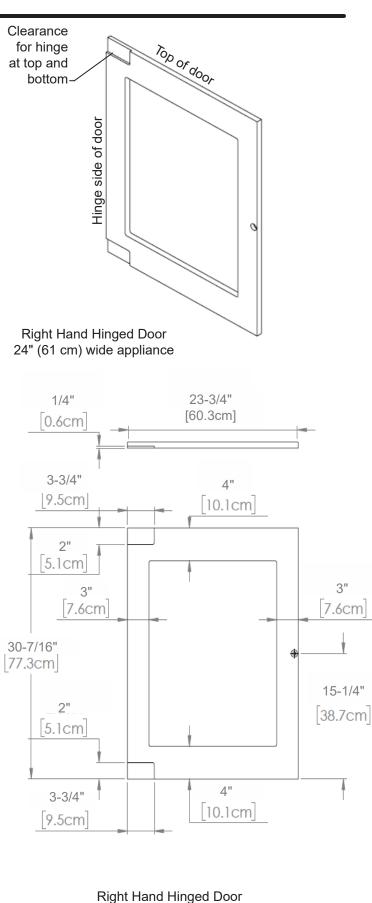
Figure 17



- 4. Remove caps from top of door. Using a Philips Screwdriver, install magnet actuator on opposite side. Install caps into opposite side.
- 5. Remove caps from screw holes on opposite side (2 on top and bottom). Using a Philips Screwdriver remove the 4 screws that you previously loosened.
- 6. Reinstall screws and caps on opposite side.
- 7. Once screws are partially installed, rotate the door 180°, align the hinge over screw #1 and slide into position. Tighten screws on top and bottom.
- 8. Door is now reversed.

#### INTEGRATED PANEL DIMENSIONS





24" (61 cm) wide appliance

#### Integrated door panel installation:

If you purchased an integrated panel model, your unit is equipped with articulated hinges to allow fully integrated built-in installations. Custom panel thicknesses of %" (15 mm) and %" (18 mm) are accommodated.



It is important to use the factory provided grille that came with the product to assure proper air flow is maintained through the condenser. The use of a custom grille is not recommended and will void the warranty.



Integrated panel models are designed for use with **built-in installations only**. Use in freestanding installations could result in personal injury.

#### Step 1: Removing the Door

Open the door and loosen the screws holding the hinges to the cabinet (2 at the top and 2 at the bottom hinge). Do not remove the screws but loosen them enough so the hinges can be slipped off of the screws when sliding the door to the side.



The articulated hinges have many pinch points. Carefully close / collapse the hinges as soon as the door is removed from the cabinet.

With a helper, and being careful not to scratch the cabinet or the door, slide the door to the side about  $\frac{1}{2}$  inch and remove the hinges and door from the unit.

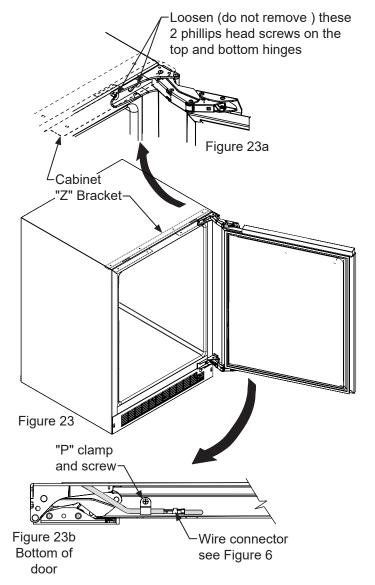
## **MARNING**

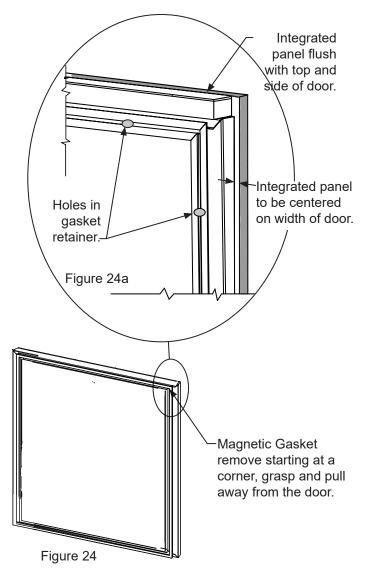
Use extreme caution with the articulated hinges. The hinge is self closing and many pinch points exist prior to built-in installation. Do not remove the cabinet "Z" bracket from the top of the cabinet.

#### Step 2: Remove the door gasket

With the door laying on a flat surface and starting at a corner of the door remove the magnetic door gasket from the interior side of the door, see Figure 17. Set the gasket aside on a flat surface.

There are 10 holes in the gasket retainer extrusions, (3 on each side and 2 at the top and bottom which are used to fasten the panel to the front of the door. The screws are provided in the literature pack along with the door lock, which is provided on certain models.





#### Step 3: Cut and drill the integrated panel

Depending on your model cut the integrated door panel to the dimensions shown in Figures 19 to 22. The window cut out is for glass door models only. If your appliance has a lock also drill the lock hole in the panel, see Figure 25.

## **A** CAUTION

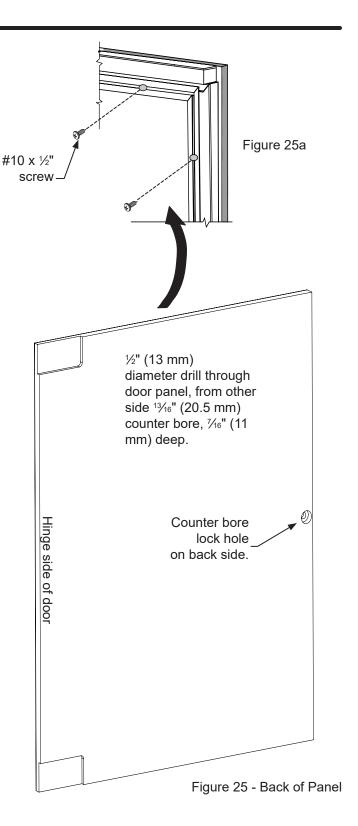
Weight of integrated door panel must not exceed 15 pounds (6.8 kg) for a solid door model or 10 pounds (4.5 kg) for a glass door model.

Material Type	#10 Wood Screw
Hardwood	⅓" (3.2 mm) Diameter. Pilot Hole
Softwood	¼ (2.8 mm) Diameter. Pilot Hole

Table A

#### Step 4: Assemble the panel to the door

The preferred method of attaching the panel to the door is to clamp the panel to the door so it cannot move while drilling the screw pilot holes. Use bar clamps or "C" clamps with pads on the clamping surfaces that will not mar the panel or the door. The custom integrated panel should be flush with the top of the door and centered along the width of the door. See Figure 16a. Drill holes through the gasket extrusion using the 10 holes as pilot holes. Use the drill size from the chart in Table "A", being careful not to drill through the front surface of the panel. If the integrated panel is thinner than %" (16 mm) thick shorter screws will have to be obtained. Fasten the panel to the door with the 10 screws provided in the literature pack. (See Figure 25a). Remove the clamps and replace the gasket in the gasket extrusion channels of the door. Some force may be required to seat the gasket into the channels. Be sure the gasket corners are seated properly.



#### Step 5: Assemble lock parts

Two (2) lock extensions are provided with the lock. Use the longer extension for  $\frac{3}{4}$ " thick integrated panels and the shorter one for  $\frac{5}{6}$ " thick integrated panels. Assemble the lock extension, cam stop washer, spring washer, and set screw to the lock as shown in Figure 26 and 27.

Install this lock assembly into the lock hole in the integrated panel and secure with the retaining nut on the back side with a 15 mm socket and ratchet. Make sure the key slot in the front of the lock is vertical.

#### Step 7: Install the door

Carefully open the top and bottom hinges on the door being careful as there are many pinch points. Place the hinges over the 4 screws in the cabinet, 2 at the top and 2 at the bottom and slide the door into position. Tighten the 4 hinge screws with a phillips screwdriver. (See Figures 25 and 25a).

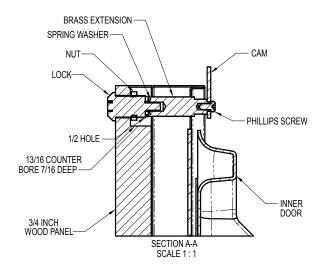
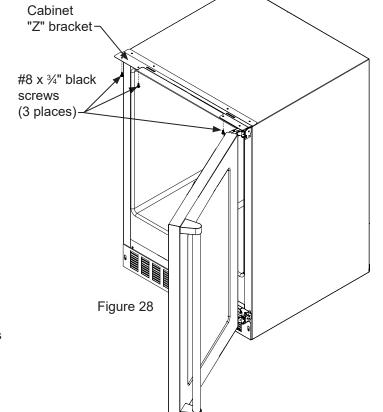


Figure 26

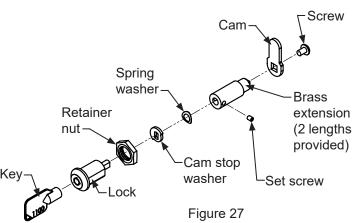
#### Step 8: Secure the cabinet

Use the #8 x ¾" black screws from the literature pack to secure the counter top to the cabinet top through the holes in the cabinet "Z" bracket.



#### Step 6: Install lock cam

Attach the lock cam to the back of the lock assembly with the phillips head screw provided. Orient the lock cam vertically when installing on the lock.



#### **USING YOUR ELECTRONIC CONTROL**



Figure 29 Electronic control

#### **Control Function Guide**

Function	Command	Notes		
ON/OFF	Press 🗓 and release.	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 <sup>O</sup> F / <sup>O</sup> 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 MARVEL and press .	Display will turn off when door is closed. Unit will continue to operate. Repeat command to turn on display.		
Adjust Light Color	Press and hold — then press $\bigcirc$ and wait for UI to flash. Once UI flashes, release — and $\bigcirc$ , and use the $\bigcirc$ to scroll through options 0-2.	Option Open Door Closed Door		
		<b>OO</b> White White		
		DI Blue Blue		
		02 White Blue		
		Light will be set at full intensity when door is open, and 50% intensity when door is closed.		
Enable Sabbath Mode	Press and hold for 5 seconds and release.	The <sup>O</sup> F / <sup>O</sup> 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.		
Showroom Mode	Hold $\mathbb{Q}$ and $\mathbb{O}$ for 5 seconds.	The <sup>o</sup> F / <sup>o</sup> C symbol will flash. Display will be lit and interior light will function. <b>Unit will not cool</b> . Repeat command to return to normal operation.		

#### **Door Alert Notification**

When the door is left open for more than 30 minutes:

- A tone will sound for several seconds every minute
- dr will appear in display
- · Close door to silence alert and reset

#### **First Use**

Initial startup requires no adjustments. When plugged in, the unit will begin operating under the factory default settings. If the unit was turned off during installation, simply press and the unit will immediately switch on. To turn the unit off, press  $\bigcirc$ 

## 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

#### **Front Grille**

Be sure that nothing obstructs the required air flow openings in front of the cabinet. At least once or twice a year, brush or vacuum lint and dirt from the front grille area (see page 8).



**SHOCK HAZARD:** Disconnect electrical power from the appliance before cleaning with soap and water.

#### Cabinet

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

#### Interior

Wash interior compartment with mild soap and water. Do NOT use an abrasive cleaner, solvent, polish cleaner or undiluted detergent.

#### **Care of Appliance**

- 1. Avoid leaning on the door, you may bend the door hinges or tip the appliance.
- Exercise caution when sweeping, vacuuming or mopping near the front of the appliance. Damage to the grille can occur.
- Periodically clean the interior of the appliance as needed.
- Periodically check and/or clean the front grille as needed.

#### In the Event of a Power Failure

If a power failure occurs, try to correct it as soon as possible. Minimize the number of door openings while the power is off so as not to adversely affect the appliance's temperature.

#### Light assembly replacement

All models use an LED to illuminate the interior of the appliance. This component is very reliable, but should it fail, contact a qualified service technician for replacement of the LED.

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

- 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.
- 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.
- 13. For wine storage products:

When serving temperatures are not required, return the compartment(s) set temperature to the ideal red and white wine long term storage temperature of 13°C / 55°F.

#### **ENERGY SAVING TIPS**

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

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- 2. Install product out of direct sunlight.
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- 13. For wine storage products:
  - When serving temperatures are not required, return the compartment(s) set temperature to the ideal red and white wine long term storage temperature of 13°C / 55°F.

#### **EXTENDED NON-USE**

#### Vacation/Holiday, Prolonged Shutdown

The following steps are recommended for periods of extended non-use:

- 1. Remove all consumable content from the unit.
- 2. Disconnect the power cord from its outlet/socket and leave it disconnected until the unit is returned to service.
- 3. If ice is on the evaporator, allow ice to thaw naturally.
- 4. Clean and dry the interior of the unit. Ensure all water has been removed from the unit.
- 5. The door must remain open to prevent formation of mold and mildew. Open door a minimum of 2" (50 mm) to provide the necessary ventilation.

#### Winterization

If the unit will be exposed to temperatures of  $40^{\circ}$  F ( $5^{\circ}$  C) or less, the steps above must be followed.

For questions regarding winterization, please call Marvel at (616) 754-5601.



Damage caused by freezing temperatures is not covered by the warranty.

#### **OBTAINING SERVICE**

#### If Service is Required:

- If the product is within the first year warranty period please contact your dealer or call Marvel Customer Service at 616.754.5601 for directions on how to obtain warranty coverage in your area.
- If the product is outside the first year warranty period, Marvel Customer Service can provide recommendations of service centers in your area. A listing of authorized service centers is also available at www.marvelrefrigeration.com under the service and support section.
- In all correspondence regarding service, be sure to give the service number, serial number, and proof of purchase.
- Try to have information or description of nature of the problem, how long the appliance has been running, the room temperature, and any additional information that may be helpful in quickly solving the problem.
- Table "B" is provided for recording pertinent information regarding your product for future reference.

For Your Records		
Date of Purchase		
Dealer's name		
Dealer's Address		
Dealer's City		
Dealer's State		
Dealer's Zip Code		
Appliance Serial Number		
Appliance Service Number		
Date Warranty Card Sent (Must be within 10 days of purchase).		

Table B



## Ordering Replacement Parts

## Parts may be ordered online at www.partsformarvel.com

Or contact:

<u>www.marvelrefrigeration.com</u> (Servicers choose "Login" for service account)

Phone Number: +1.616.754.5601

#### **NOTICE**

<u>Use only genuine Marvel replacement parts. The</u>
use of non-Marvel parts can reduce performance,
damage the unit, and void the warranty.

Warranty parts will be shipped at no charge after Marvel confirms warranty status. Please provide the model, serial number, part number and part description. Some parts will require color or voltage information.

If Marvel requires the return of original parts, we will inform you when the parts order is taken. This requirement will be noted on your packing list. A prepaid shipping label will be emailed to you. Please enclose a copy of the parts packing list and be sure the model and serial numbers are legible on the paperwork. Tag the part with the reported defect.

Customers and non-authorized servicers may order non-warranty parts at www.marvelrefrigeration.com.

Authorized servicers with a servicer login may order non-warranty parts at <a href="www.marvelrefrigeration.com">www.marvelrefrigeration.com</a>.



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## R-600A Specifications & Handling

## **MARNING**

Flammability warnings for a pure-iso-butane refrigerant.







Gloves and Eye Protection must be used.



R-600a is considered non-toxic, but is flammable when mixed with air.

Keep a dry powder type fire extinguisher in the work area.



R-600a is heavier than air, do not allow any leakage/migration to low areas such as basements and stairs.

Never use a torch on a fully charged refrigeration system.

Never substitute Marvel OEM replacement parts or methods of construction.

R-600a must be stored and transported in approved containers.

24

R-600A Specifications



## **▲** WARNING

Only skilled and well trained service technicians permitted to service R-600a equipped products.

All tools and equipment must be approved for use with R-600a refrigerant.

Local, state and federal laws, standards must be observed along with proper certification and licensing.

Ventilation is required during servicing.

No conversions to R-600a from any other refrigerants. OEM R-600a equipped unit only.

Service area must be free of ignition sources.

No smoking is allowed in the service area.

All replacement electrical components must be OEM and installed properly (sealed and covered).

If the evaporator is cold prior to service, it must be thawed prior to service.

When using a vacuum pump, start pump before opening refrigeration system.

Vacuum pump and recovery equipment should be at least 10 feet from the work area.

It is recommended that a simple LPG gas detector is on site during service.

Ensure that all R-600a is removed from the system prior to brazing any part of the sealed system.

Only a clean, dry leak free system should be charged with R-600a.

#### R-600A SPECIFICATIONS/LABELING

R-600a equipped products are labeled (both the unit and the compressor).

R-600a is colorless and odorless.

R-600a is considered non-toxic, but is flammable when mixed with air.

Do not remove or alter any R-600a labeling on the product.

Use only a refrigerant grade R-600a from a properly labeled container.

#### **RECOVERING/RECLAIMING R-600A**

(R-600a has been exempted from recovery/reclaiming requirements by the US EPA)

Recovery/Reclaiming equipment must be approved for use with R-600a.

Ensure the evaporator is at room temperature prior to recovery/reclaiming R-600a.

Use a common piercing pliers or piercing valve to remove R-600a from the compressor process tube. (Note: Piercing devices must not be left on the system and must be replaced with a Schrader type valve.)



Evacuate/reclaim via the piecing pliers to ensure the system is empty of R-600a before any system work is performed.



The recovery cylinder must be evacuated (no air inside) prior to accepting R-600a.

The recovery cylinder must not be filled more than 45% safe fill level and refrigerants must not be mixed.

The recovery cylinder must be clearly marked with R-600a and Flammable Warning labels.

Ensure proper ventilation during recovery/reclaiming of R-600a.

Start vacuum pump/recovery pump prior to piercing the compressor process tube.

Follow recovery/reclaim OEM instructions for the specific equipment used.

#### **SYSTEM REPAIR**

Ensure no residual R-600a refrigerant is left within the system prior to repair (simple venting is not sufficient).

Evacuate and charge with dry nitrogen for leak checks.

Repair leaks or replace system parts as required.

When re-brazing, the system must be purged with dry nitrogen and at least one access point open to the atmosphere.

When re-brazing, proper ventilation is required along with constant monitoring for the presence of R600a refrigerant.

The filter dryer must be replaced any time the sealed system is serviced.

No system should be open to the atmosphere for longer than 15 minutes to avoid moisture migration into the system components.

#### **LEAK DETECTION**

26

After removal of the R-600a, the unit can be charged with dry nitrogen or helium.

Electronic leak detection or soap solution can be used to check for nitrogen/helium leaks.



Never use a halide torch or lighted match to check the system for leaks at any time.

The high side of the refrigeration system (compressor discharge to outlet of drier) must be leak tested with the compressor running.

R-600A Specifications



The low side of the refrigeration system (evaporator, compressor and suction line) must be leak tested with the compressor off (equalized pressure).

**RECHARGING** 

No air is ever to be allowed inside the refrigeration system (R-600a refrigerant or dry nitrogen only).

Never use a torch on a fully charged refrigeration system.

Install a Schrader Type access port on the compressor process stub.



Evacuate the system to 100 microns prior to charging.

Weigh in the R-600a charge using a refrigerant scale. (run compressor an extra two minutes to clear the charging hoses).

Seal the Schrader Type access port, a proper cap and seal must be used to close the system.



#### **SUMMARY**

Safely handling R-600a requires proper procedures and training.

R-600a approved service tools must be used.

R-600a labeling must not be removed or altered.

Proper ventilation during service is required.

Never apply a torch to a charged R-600a refrigeration system.

Use OEM replacement service parts and do not alter the construction of the unit.



## System Diagnosis Guide

### REGRIGERATION SYSTEM DIAGNOSIS GUIDE

System Condition	Suction Pressure	Suction Line	Compressor Discharge	Condenser	Capillary Tube	Evaporator	Wattage
Normal	Normal	Slightly below room temperature	Very hot	Very hot	Warm	Cold	Normal
Overcharge	Higher than normal	Very cold may frost heavily	Slightly warm to hot	Hot to warm	Cool	Cold	Higher than normal
Undercharge	Lower than normal	Warm- near room temperature	Hot	Warm	Warm	Extremely cold near inlet - Outlet below room temperature	Lower than normal
Partial Restriction	Somewhat lower than normal vacuum	Warm- near room temperature	Very hot	Top passes warm - Lower passes cool (near room temperature) due to liquid	Room temperature (cool) or colder	Extremely cold near inlet - Outlet below room temperature backing up	Lower than normal
Complete Restriction	In deep vacuum	Room temperature (cool)	Room temperature (cool)	Room temperature (cool)	Room temperature (cool)	No refrigeration	Lower than normal
No Gas	0 PSIG to 25"	Room temperature (cool)	Cool to hot	Room temperature (cool)	Room temperature (cool)	No refrigeration	Lower than normal



### Troubleshooting - Extended



Never attempt to repair or perform maintenance on the unit until the main electrical power has been disconnected from the unit.

#### **SPECIFIC ERRORS AND ISSUES**

The advanced diagnostic capabilities of the electronic controls allows for easy and thorough troubleshooting.

Navigation of the control is the key and is explained in the CONTROL OPERATION section of the manual, along with control button layout, control function descriptions, a service mode menu and service menu selection explanations.

Verification of temperature and thermistor performance can be identified by directly viewing thermistor readings in the service mode.

Included in this section are some diagnostic tips and of course, if additional help is required, please contact the Marvel, "Customer Care Facility" at +1.616.754.5601 for assistance.

#### **NORMAL OPERATING SOUNDS**

All models incorporate rigid foam insulated cabinets to provide high thermal efficiency and maximum sound reduction for its internal working components. Despite this technology, your model may make sounds that are unfamiliar.

Normal operating sounds may be more noticeable because of the unit's environment. Hard surfaces such as cabinets, wood, vinyl or tiled floors and paneled walls have a tendency to reflect normal appliance operating noises.

Listed below are common refrigeration components with a brief description of the normal sounds they make. NOTE: Your product may not contain all the components listed.

- Compressor: The compressor makes a hum or pulsing sound that may be heard when it operates.
- Evaporator: Refrigerant flowing through an evaporator may sound like boiling liquid.
- Condenser Fan: Air moving through a condenser may be heard.
- Automatic Defrost Drain Pan: Water may be heard dripping or running into the drain pan when the unit is in the defrost cycle.

Solenoid Valves: An occasional clicking sound may be heard as solenoid valves are operated.



#### TROUBLESHOOTING GUIDE

Concern	Potential Causes	Action
Not Cooling	Compressor overheating	Verify proper air flow through condenser. Is condenser clean?
		Confirm condenser fan operation.
	Compressor not operating	Test overload and relay, replace as needed.
	Compressor operating - no cooling	Refer to System Diagnosis Guide.
Frozen Product	Control set too cold	Adjust Set Point Temp accordingly.
,	Thermistor failure	Check Error Log in Service Mode, OHM thermistor.
Frost Buildup Inside Unit	Door Ajar or Restricted from Closing	Check door clearance to adjoining cabinetry. Check distribution of product in unit.
	Thermistor failure	OHM thermistor
Display Not Working	Display unplugged	Verify that both ends of the display wiring are firmly connected.
	Display wiring broken or damaged	Perform continuity test of wiring and replace as needed.
Interior Lights Not Working	Door switch misaligned or defective	Check the function of reed switch and door magnet adjustment.
Noisy	Refrigeration tubing touching cabinet	Carefully reposition tubing.
	Fan blade obstruction (wiring, foam insulation, packaging material)	Remove obstruction.

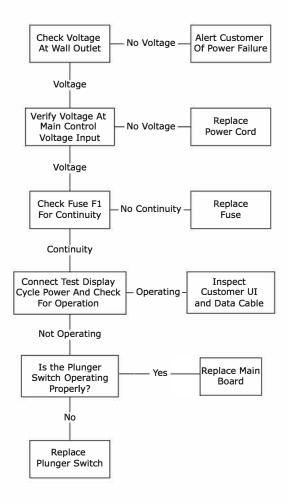


#### **MAIN CONTROL**

The main control board is very robust and is rarely the cause of system issues. It is important to fully diagnose the board for any suspected failures before attempting to remove the board for replacement or service. Follow the guidelines below to fully test and diagnose the main control.

#### **Power Fault**

If the unit does not (or seems to not) power on, follow the flow chart below to help diagnose the issue. Before beginning it is important to first verify the unit is not simply set to sabbath mode.





Precautions must be taken while working with live electrical equipment. Be sure to follow proper safety procedures while performing tests on live systems.

#### **REED SWITCH**

A reed switch is used to monitor door state. When the door is closed it comes into contact with the reed which closes a circuit which turns the light and display off. When the door is open the reed moves outward and opens the circuit. If the door is left open for longer than 5 minutes the switch will trigger an error code and set an audible warning.



## Control Operation-Service

#### **UI BUTTON LAYOUT**



#### 1. Hidden Button

- -Access Service Menu
- -No LED directly above. All LEDs turn on with button

#### 2. Up Button

- -Increases temperature
- -Navigates through service menu

#### 3. Down Button

- -Decreases temperature
- -Navigates through service menu

#### 4. Light Button

- -Activates light for 3 hours on select models
- -Used to select items in service menu

#### 5. Power Button

-Turns unit off/on

#### 6. Clean Button

- -Activates Clean Cycle on select models
- -Toggles between zones in Dual-Zone models

#### **CONTROL FUNCTION GUIDE**

FUNCTION COMMAND		DISPLAY/OPTIONS	
ON/OFF	Press o and release	Unit will immediately turn ON or OFF	
	See "Sabbath Mode" section		

#### **SHOWROOM MODE**

This mode is designed to show units in a display environment. When in this mode the only functions will be the control and cabinet lights. The compressor, fans, etc. will not operate. To enter/exit this mode hold the light key and the power key for 5 seconds. The display will flash once and beep and the degree symbol will begin to flash. When the degree symbol is flashing the unit will allow the use of the control for demonstrations. The unit can be left in this mode indefinitely.

#### **SERVICE MODE**

This mode has options available for service diagnostics. To enter the mode hold the hidden key for 10 seconds. The display will show "0." When in this mode use the up and down arrows to select the desired option. The LIGHT key is the ENTER key and will initiate the function. If changing a setting, you must press the LIGHT key again to retain the changed setting. To exit the service mode scroll to option "0" and press the LIGHT key. After five minutes of not touching any keys the mode will also exit automatically.



#### **Thermistors**

Thermistors are used for various temperature readings. Thermistors provide reliable temperature readings using a resistance which varies based on surrounding temperatures. If a faulty thermistor is suspected it may be tested using an accurate ohmmeter.

Both thermistors in the unit are identical. If a thermistor is suspected of being defective, the resistance can be verified. Place the thermistor in an ice water bath, the resistance should read 16.1k Ohms +/-5% on your meter.

Thermistor connections must be kept clean. A thermistor connection that has become corroded can cause resistance values from the thermistor to change as they pass through a dirty connection to the board.

It is for that reason that we apply dielectric grease to all of our thermistor connections. Dielectric grease will help to keep thermistor connections clean and dry.

If you change a thermistor in the unit please re-apply dielectric grease to the connection. If you encounter a dirty thermistor connection, you should replace the thermistor and the thermistor harness.

Thermistor error information can be found in the Control Operations - Service section.

This unit has **two** thermistors.

#### Thermistor one (Zone):

Located along the right hand side wall. It is used to maintain the operating temperature within that zone.

#### Thermistor two (Evaporator):

Located on the evaporator. It is used for defrost.

#### THERMISTOR FAILURE

#### **Zone Thermistor**

If the zone thermistor in the unit fails, the unit will continue to cool in a backup mode (Self Preservation Mode) to preserve the integrity of the contents. The unit will otherwise operate normally.

#### **Evaporator Thermistor**

If the evaporator thermistor fails, the unit will rely on a preset defrost timer during defrost cycles. The unit will otherwise operate normally. Refer to defrost section.

Thermistor Resistance Data

Temp (F)	Temp (C)	Nominal Resistance (OHMS)*
-40	-40	169157
-31	-35	121795
-22	-30	88766
-13	-25	65333
-4	-20	48614
5	-15	36503
14	-10	27681
23	-5	21166
32	0	16330
41	5	12696
50	10	9951
59	15	7855
68	20	6246
77	25	5000
86	30	4029
95	35	3266
104	40	2665
113	45	2186
122	50	1803
131	55	1495
140	60	1247
149	65	1044
158	70	879
167	75	743
176	80	631

<sup>\* (+/- 5%)</sup> 

Thermistor 33



#### 16.11: RFI (Refrigerator Freezer- Ice Maker)



Freezer compartment: Includes an ice bucket and an ice maker with a fan in the upper rear corner.



This diagram represents the position of the ice machine level to turn the ice maker ON or OFF.

Lever Up: Ice Maker "OFF" Lever Down: Ice Maker "ON"

#### 16.11.1: Ice Maker

To remove the ice maker cover; insert a screwdriver into the bottom notch and lightly pry open.

#### 16.11.1.1: Specs:

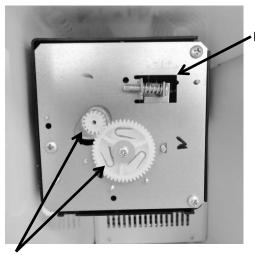
• 115 Volt/60 hertz

• Heater: 165 Watts / 80 Ohms

• Thermostat: Open @ 48°F (8.9°C) / Close @ 15°F (-9.4°C)

• Flow Rate: .34 GPM

**WARNING:** Prior to any electrical repair the appliance must first be disconnected from its power source.

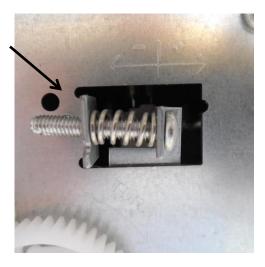


Fill Adjustment

Ice maker with the cover removed.

The motor gear is the small gear on the top left.

The timing gear is the largest gear in the center.



Adjusting the water fill can be accomplished by turning the adjustment screw clockwise (+) to increase or counter clockwise (-) to decrease.

#### 16.11.1.2: Ice Maker Test Cycling

Test cycling of the ice maker can be achieved by turning the motor gear counter-clockwise until the holding switch circuit is complete. All components of the ice maker should function to complete the cycle.

The timing gear should not be turned as this will damage the ice maker.

#### 16.11.1.3: Water Flow Volume

The water fill adjustment screw will change the fill volume by changing the fill time. One full turn is equal to 20cc (.68 oz.). The correct fill is between 90 and 120 cc (3.0 - 4.0 oz.).

When replacing a water valve, the fill volume must be checked.

These ice makers are factory preset for a flow rate of .34 gpm (gallons per minute).

## PLEASE REFER TO THE SERVICE DATA SHEET INSIDE THE ICE MAKER COVER FOR ADDITIONAL INFORMATION.

#### 16.11.2: Ice Maker Removal

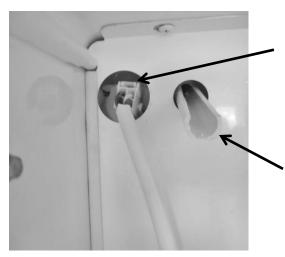


To remove the crescent ice maker, the screws located inside the two upper mounting brackets need to be loosened. There is no need to remove these screws. A third screw on the bottom font of the ice maker body needs to be completely removed.

Lift the ice maker from the bottom and set the ice maker aside. This will expose the wire harness and water fill tube.



Remove the black wire grommet on the rear of the freezer cover. This will expose the connector for the ice maker harness.



Grasp and squeeze the connector by the release until it disengages. Pull to disconnect.

The ice maker is now disconnected and can be removed.

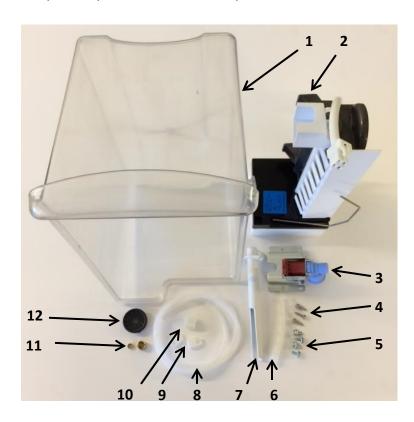
Water fill tube.

#### 16.11.3: Ice Maker Kit

Model RF (without icemaker) can have a Marvel factory authorized Icemaker kit installed.

The part number for the Marvel ice maker kit is S42418151-CLR.

This kit can be obtained through the AGA Marvel order desk. Call 1-800-223-3900 and follow the phone queue to the order department.



#### **Kit Components**

- 1) Ice Bucket
- 2) Ice Maker
- 3) Fill Valve
- 4) #8 x 5/8" HD SS Hex Screw
- 5) #10 x ½ AB Hex HD Screw
- 6) Tube Wrap
- 7) Fill Tube
- 8) ¼" Plastic Water Line
- 9) P-Clamp
- 10) Fill Tube Nut
- 11) Nut and Ferrule
- 12) Plug Bushing
- 13) Installation Instructions

#### For installation the following tools will be required:

- 5/16" Nut Driver
- ¼" Nut Driver
- ½" Open End Wrench
- 5/8" Open End Wrench
- Flat Blade Screwdriver

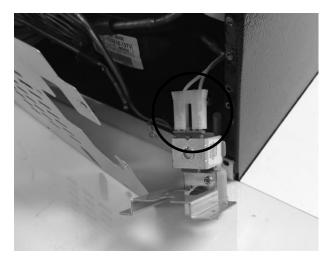
#### 16.11.3.1: Ice Maker Kit Installation Instructions:

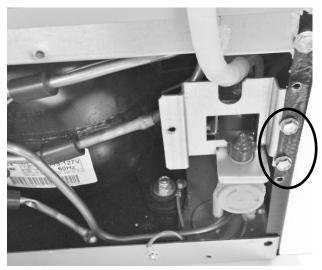
• Follow specific instructions included in kit.



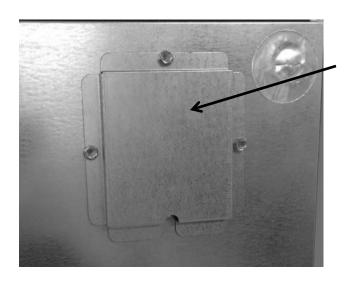
Remove rear panel to machine compartment.

Connect wire harness inside of machine compartment to water valve.

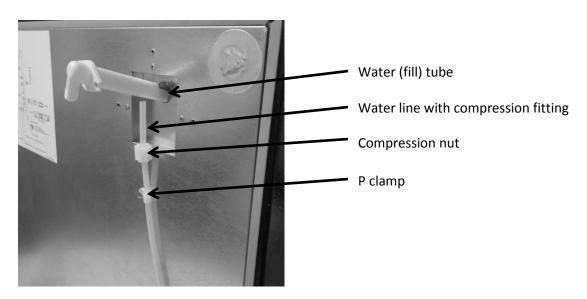




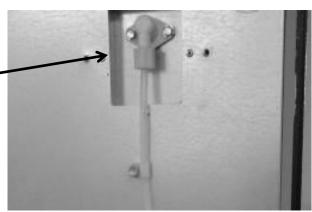
Attach water valve to rear cabinet flange. Replace cover to machine compartment.

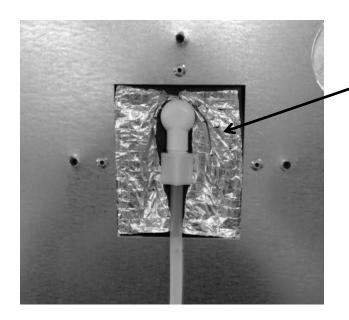


Remove access cover in top rear, right hand corner. Remove insulation under cover and keep for use later.



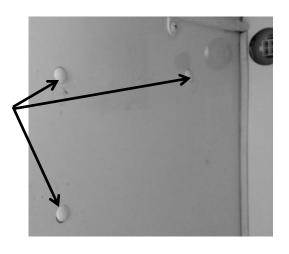
Insert fill tube; connect water line and compression nut. Secure fill tube with screws.



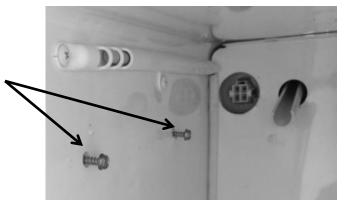


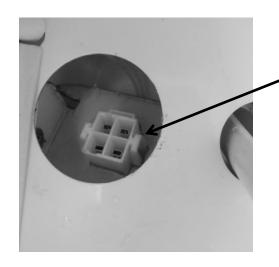
Replace insulation and access cover.

Remove three plastic screw plugs on left hand side wall in freezer compartment.



Install screws into the top two holes; leave room to set the ice maker into place on top of screws.





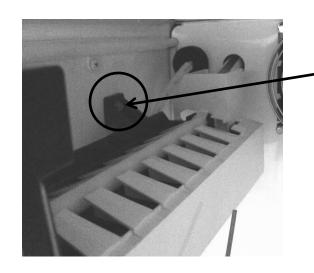
This photo shows the ice maker connection located in the evaporator compartment.

Place the plug bushing over the ice maker wire harness; smooth surface facing outward.

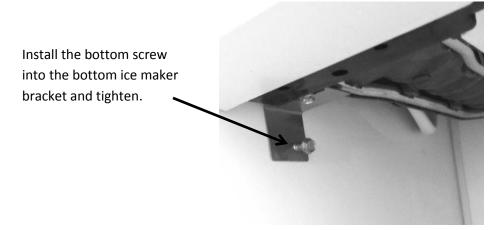


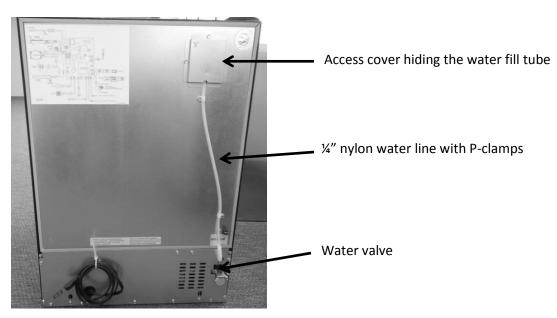
Push and snap the wire connector into place. Push the plug bushing into the rear cover panel.

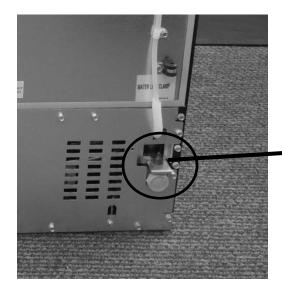




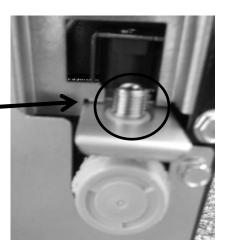
Set the Ice maker on top of each of the (two) top screws and tighten.

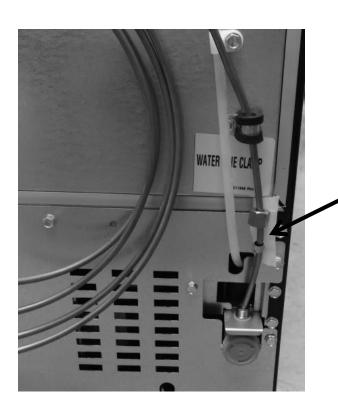






Supply water inlet: ¼" compression nut with coupling.

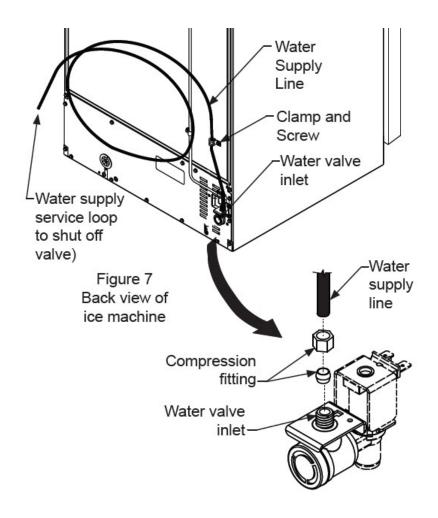




Install water supply line to the water valve, seat coupling and tighten the compression nut to the water valve.

Check for water leaks once supply water is reconnected.

#### 16.11.3.2: Installation Schematic



#### 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.

#### 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.
- These 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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