

Model: MOKR124-SSA1A

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. You can send us photos of your installed product at marketing@marvelrefrigeration.com, and we might feature your Marvel home design on our website and social media!

Warranty Registration

It is important you register your product warranty after taking delivery of your appliance. You can register online at www.marvelrefrigeration.com.

The following information will be required when registering your appliance:
Serial Number
Date of Purchase

Dealer's name and address

Online registration available at marvelrefrigeration.com

The serial number can be found on the serial plate which is located inside the cabinet on the left side near the top.

Serial Plate Location

Typically adhered to top-right inside of unit

MARVEL GREENVILLE, MI 48838

MODEL NO: MLBV224-SS01A SERIAL NO: 1911111010001

115 V 60 Hz 1.0 A 1 PHASE 35 G R600A

FACTORY ID: 111111

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 getting started guide 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 any 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 out facility. 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

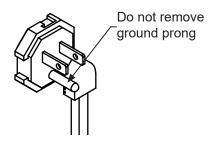
Child entrapment and suffocation are not problems of the past. Junked or abandoned refrigerators are still dangerous, even if they sit outside for "just a few hours".

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.

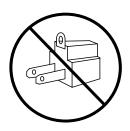
ELECTRICAL

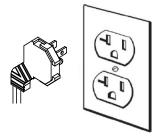


Electrical Connection

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. 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, unles required to meet local building codes and ordinances.

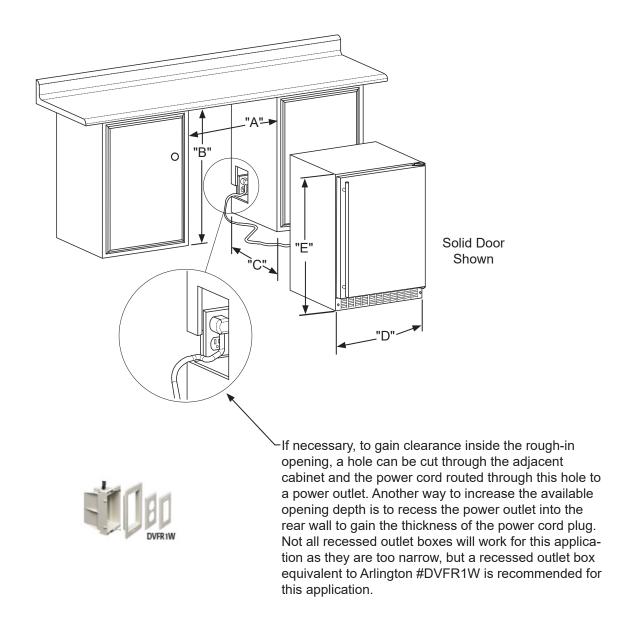


Electrical Shock Hazard

- 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.
- Do not use an adapter.
- 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.

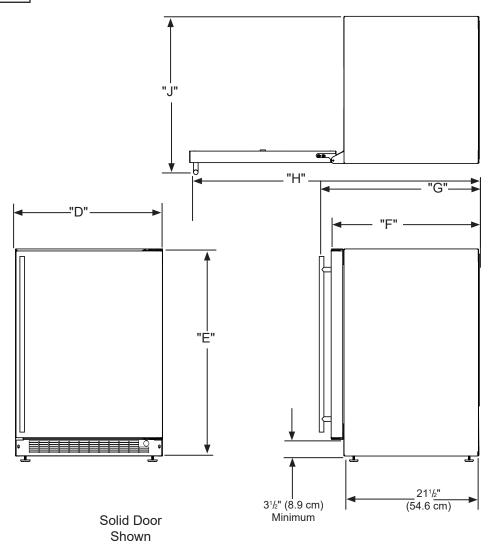
CUTOUT AND PRODUCT DIMENSIONS

ROUGH-IN OPENING DIMENSIONS			CABINET DIMENSIONS					
"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"
24" (61 cm)	34" to 35" (85.7 cm to 88.3 cm)	24" (61 cm)	23 7/8" (60.7 cm)	33 3/4" to 34 3/4" (86.4 cm to 88.9 cm)	23 3/4" (60.3 cm)	26 1/4" (66.7 cm)	47 3/8" (120.4 cm)	26 3/8" (67.1 cm)



CUTOUT AND PRODUCT DIMENSIONS

PRODUCT DATA			
ELECTRICAL REQUIREMENTS #	PRODUCT WEIGHT		
115V/60Hz/15A	140 lbs (63.6 kg)		



Minimum rough-in opening required is to be larger than the adjusted height of the cabinet.

A grounded 15 amp dedicated circuit is required. Follow all local building codes when installing electrical and appliance.

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 Outdoor models with articulated hinges are intended for built-in applications only.



WARNING

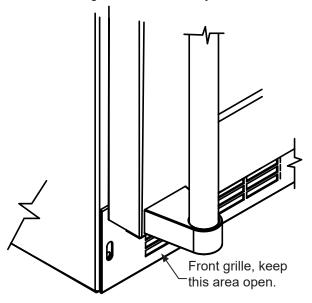
An optional stacking kit, for 24" wide models, is required to stack products. Failure to use a stacking kit could result in personal injury. Contact your dealer or Marvel customer service at 616-754-5601 to order. For safety concerns 15" wide models should not be stacked.

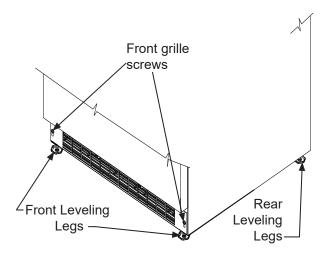


CAUTION

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.





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.

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.

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.

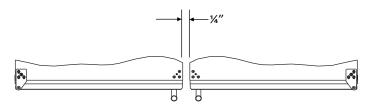
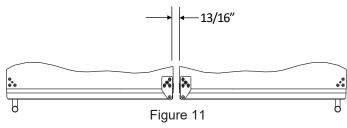


Figure 10

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.



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.

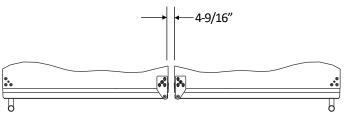
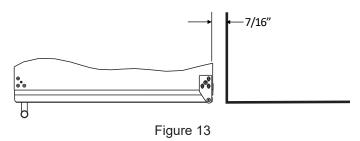


Figure 12

Hinge-by-Wall Installation

When installing a unit hinge-by-wall or adjacent cabinetry, 7/16" (11mm) is required for integrated models. Additional space may be needed for any knobs, pulls or handles installed.

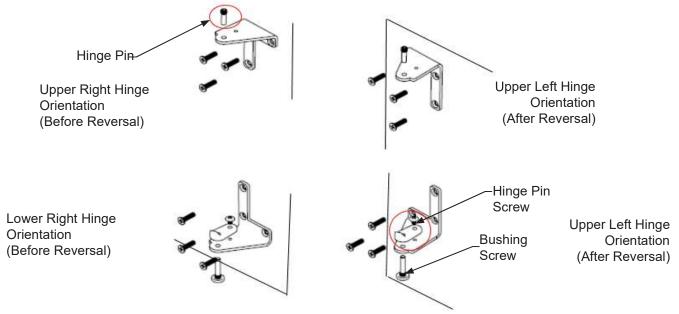


DOOR REVERSAL

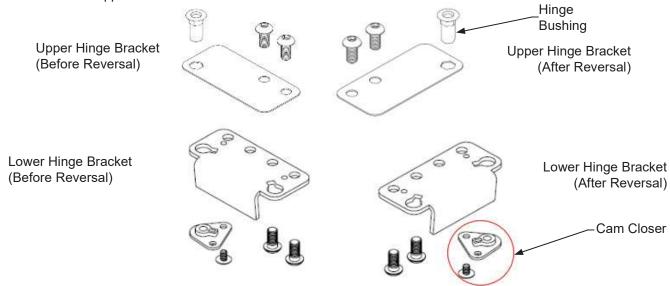
Door Reversing Instructions

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, 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.
- 4. On the Bottom Hinge, reattach the Bushing Screw and Hinge Pin Screw to the opposite side.

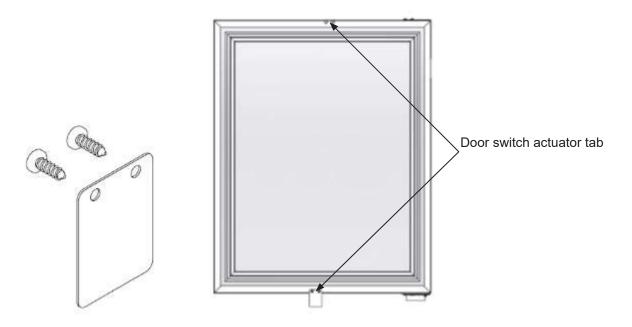


5. Using a 5/32" Hex Key, remove the Upper and Lower Hinge Brackets from the door, saving all components. Remove black plugs from opposite side of door. flip the Upper Hinge Bracket and reattach the Hinge Bushing and screw into place on the opposite side of the door (where plugs were removed). Remove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

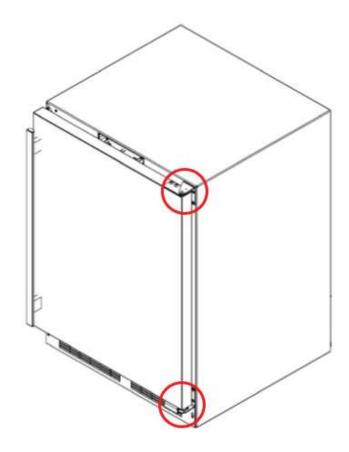


DOOR REVERSAL

6. Remove the door switch actuator tab from the door and attach it to the opposite side

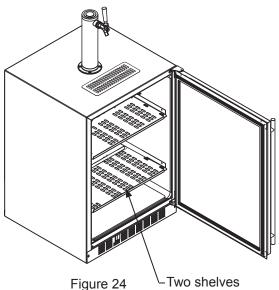


7. Reattach the Upper and Lower Hinges, and Hinge Brackets to opposite sides. Then install the door.



Shelving

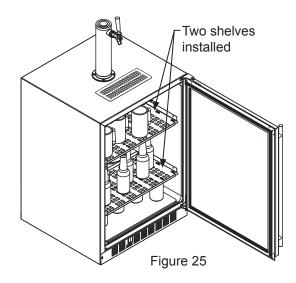
The unit is shipped with the (2) shelves taped in place in the upper and the lower shelf positions. Remove them from the refrigerator and arrange them as follows when setting up your unit.



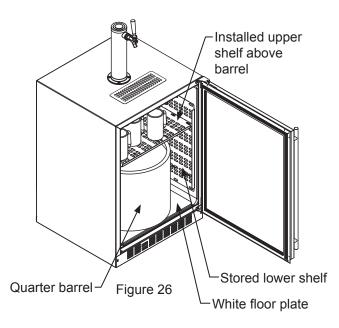
If you are not serving beverages on tap, your keg dispenser can be used as a refrigerator by placing both shelves on the mounting brackets as shown in Figure 25. The shelves are marked upper and lower, The upper shelf should be placed in the top shelf position and the shelf marked lower should be placed in the bottom shelf position.



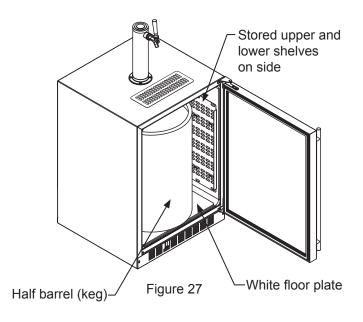
If you are using the appliance as a refrigerator for perishable foods, the set-point temperature should be set between $34^{\circ}F$ and $42^{\circ}F$ (1.2° C and 5.7° C).



If you are using a quarter barrel, you can add shelf space for keeping your mugs chilled. The quarter barrel must set on the floor, it cannot fit on the shelf, see Figure 26. Be sure the white floor plate is in the bottom of the interior compartment before positioning the barrel.



If you are using a half barrel (keg) or (2) 1/6 barrels, place the two shelves on the right side of the keg dispenser on the two mounting hooks for storage. (See Figure 27). Be sure the white floor plate is in the bottom of the interior compartment before positioning the barrel(s).



This dispensing unit will support one half ($\frac{1}{2}$) barrel or one quarter ($\frac{1}{2}$) barrel. The double draft tower units can support two sixth ($\frac{1}{2}$) barrels of beer. See chart below for quantity of beverage in each barrel size.

	Barrel Sizes		
	1/6 barrel	1/4 Barrel	1/2 Barrel
Height	23 ⁵ / ₁₆ " (59.2 cm)	14 ¹³ / ₁₆ " (37.6 cm)	23 ⁵ / ₁₆ " (59.2 cm)
Diameter	9¼" (23.5 cm)	17" (43.2 cm)	17" to 171/4" (43.2 to 43 cm)
Gallons	5.23	7.75	15.5
#12 ounce Glasses	53	82	163

Keg Size	#of kegs per 5 pound CO₂ Tank
5 gallon Corny	15 to 22
1/6 barrel	14 to 21
1/4 Barrel	10 to 14
1/2 Barrel	5 to 7

Tools required for installation:

Flat bladed screwdriver
Phillips screwdriver
Pliers
Adjustable wrench or a 1½" open end wrench
½" open end wrench



WARNING

CO₂ and nitrogen can be dangerous. If it becomes difficult to breathe and/or your head starts to ache, a high concentration of carbon dioxide or nitrogen may be present. Leave the area immediately.

- The tank must always be connected to the regulator. Never connect the tank to the keg.
- The tank must be securely mounted in the upright position. Secure it with the chain provided.
- **Never** drop or throw the tank.
- Keep the tank away from heat.
- Ventilate the area after a leak.



Tap Equipment and Assembly Includes the following parts:

Polished stainless steel tower with clear line (single or double dispense)

Tower Gasket

Phillips oval head screws

Knob for Tower (Faucet Handle)

Keg coupler(s)

CO2 or nitrogen regulator with red gas

line(s) attached

Empty 5 pound CO₂ or nitrogen tank

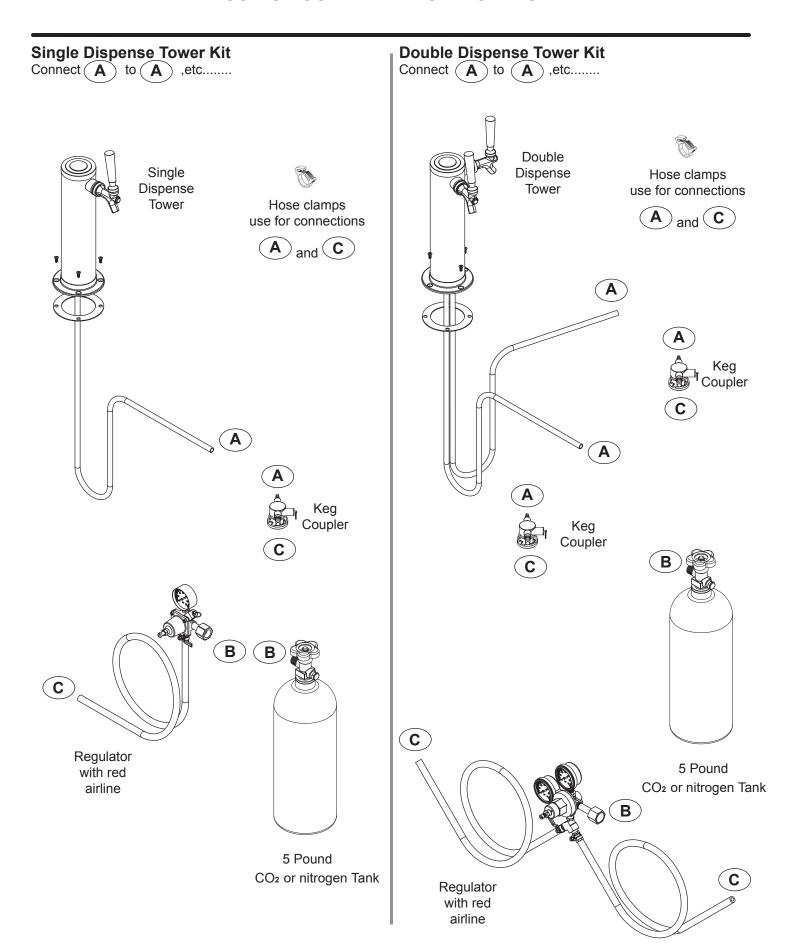
Plastic clamp(s) large and small

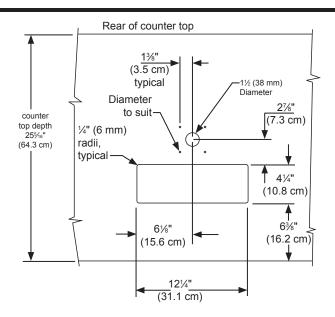
Faucet wrench

- 1. Remove shelving and packaged components from the interior of the refrigerator before beginning the assembly process.
- 2. Take your empty 5 pound tank to your local gas supply dealer to be filled. You can usually find them in your "yellow pages" under "Welding Supply" or "Fire Protection". One 5 pound tank can process many kegs (see table "D").
- 3. Tower Mounting: DO NOT REMOVE INSULATION INSIDE OF STAINLESS STEEL TOWER. INSULATION KEEPS BEVERAGE IN CLEAR LINE COLD AND FRESH. Mounting Tower to Refrigerator Top: Remove the foam plug from the porthole and DO NOT reseal.

Clearance in porthole is necessary for cold air to flow into the tower and keep the beverage line cold.

Mounting Tower to Counter Top: Remove the foam plug from the porthole and use to "bridge" the gap between the top of the cabinet and the underside of the counter. Leave adequate clearance for cold air to flow into the tower and keep the beverage line cold.

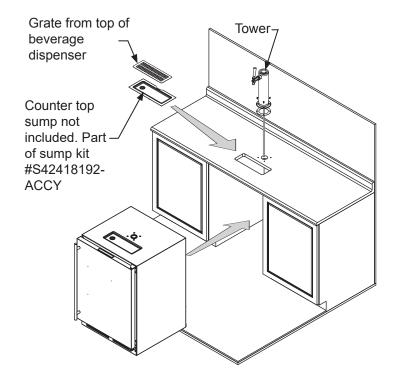


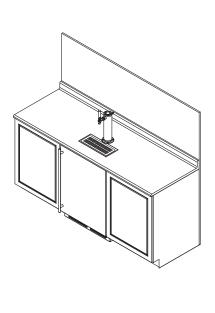


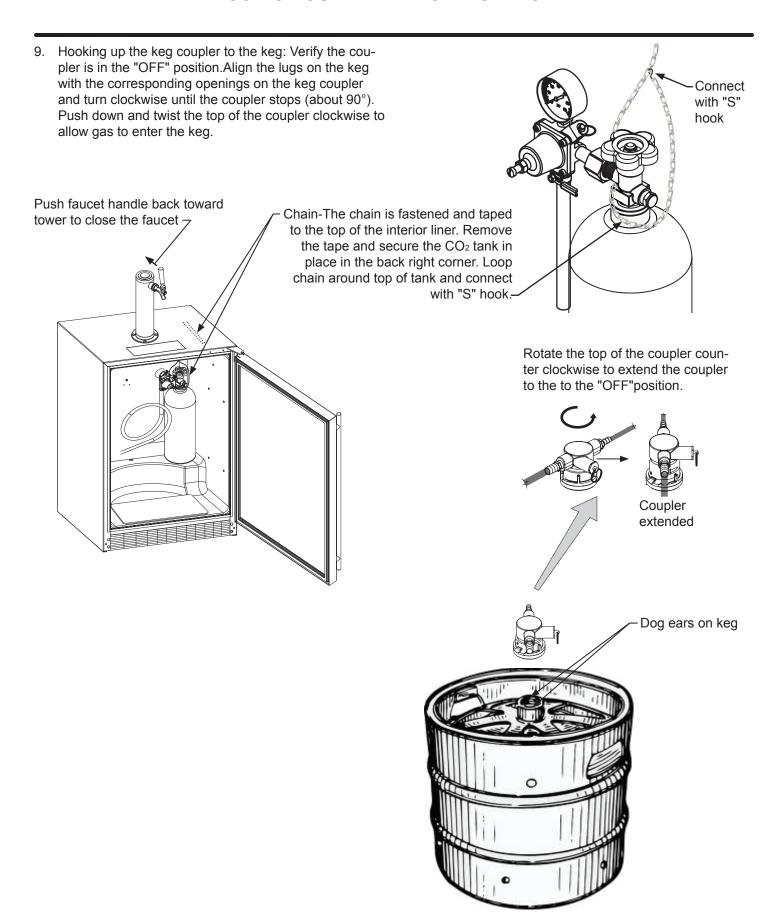


The cutout dimensions shown above are based on a 25%6" (64.3 cm) deep counter top. Your counter top may be different than this and require other front to back dimen-sioning. Refer to the product dimensions when determining the required dimensions.

- If you are installing your keg refrigerator under a counter you will need to drill 5 holes in the counter top to mount the tower. The first hole is a 1½" diameter hole located at the center of the tower for the beverage line, locate approximately 13½" (34.3 cm) from the front edge of the counter top (based on a counter top depth 255/16"). Next drill the 4 tower mounting holes per the dimensions. The hole diameter is dependent on the counter top material and if screw anchors are required. The screws supplied are in the literature pack and are a #10 x 1" type AB stainless steel screw. Mark and cut the rectangular cutout for the drain sump. After the holes are drilled and the keg refrigerator is in place under the counter top feed the beverage line through the tower gasket, the 1½" hole in the counter top and the hole in the top of the keg refrigerator. Mount the tower to the counter top with the 4 screws provided. Place the counter top drain sump, from the literature pack, in the rectangular hole with the radius cutout to the rear around the tower and place the grate in the sump.
- 5. Mount the regulator to the tank (connection B). Note that the regulator has left hand threads and has to be turned counterclockwise to tighten. Tighten with the adjustable wrench or the 1½" open end wrench.
- 6. Connect the red air line(s) from the regulator to the **large** air line fitting on the keg coupler with a **large** hose clamp (connection C).
- 7. Connect the clear beverage line from the tower to the **small** air line fitting on the keg coupler with a **small** hose clamp (connection A).
- 8. Locate the tank in the corner of the refrigerator and secure with the chain. Close the faucet handle on the tower.







Optional CO₂ tank external mounting bracket:

The optional mounting bracket is designed to hold the 5# CO₂ cylinder that comes with the beverage dispenser. Larger cylinders may be purchased from a third party and mounted externally. Use the hole port on the rear of the cabinet to run the CO₂ or nitrogen line to the keg.

Many options are available for mounting the tank outside of the beverage dispenser to gain additional cold storage space inside.

Secure the optional external mounting bracket on the back of the beverage dispenser (this is ideal for mobile units) or mount within adjacent cabinetry (ideal for undercounter built-in units:

Mount the (4) screws (#10-32 x $\frac{3}{4}$ " flathead machine screws) provided with the bracket in the rear of the appliance. Do not completely tighten. Place the keyhole slots in the flanges of the bracket over the four screws and tighten them to secure the bracket to the back of the cabinet. The bracket can also be fastened to adjacent cabinetry using the provided #10 x $\frac{3}{4}$ " wood screws.

Mark the hole locations where required using a pencil and the slots in the mounting bracket. Drill appropriate pilot holes (depending on the material you are mounting to) and secure the bracket per the above instructions.

NOTE

The foam insulation plugs provided in the portholes are **CRITICAL** to proper functioning of the unit and preventing frost build up that can cause damage to the unit and/or refrigerator contents. **ALWAYS** reseal the CO₂ or nitrogen line porthole with the provided insulation plugs once all lines have been properly installed.

NOTE

Consider the length of the red air line when choosing a place for the tank. The red air line supplied is 4 feet (1.2 meters) long.

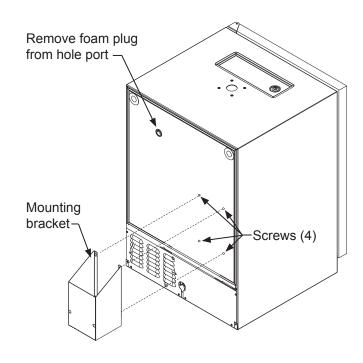
With the gauges mounted to the tank place the tank in the mounting bracket.

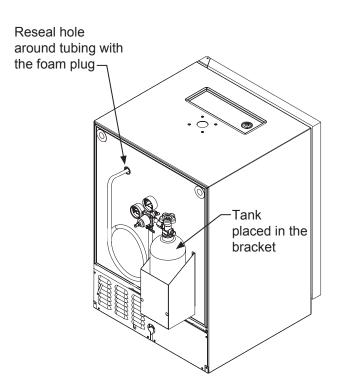
Remove the foam plug from the hole port, and feed the red CO_2 or nitrogen through the rear wall and out the coil cover on the inside of the cabinet. Connect the red CO_2 or nitrogen to the keg coupler.

Reseal the hole in the back of the cabinet with the foam plug.



If the tank is placed on the floor it must be secured in the upright position with a chain or other means to prevent it from being tipped over.



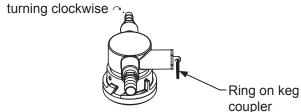


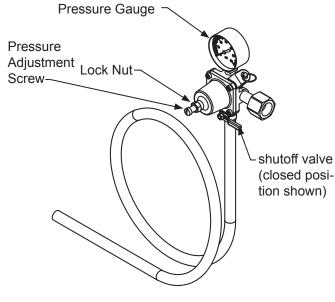
CO₂ or Nitrogen Regulator (Single Dispense Tower)

Your beverage dispenser comes equipped with a 5 pound tank and a single gauge regulator. The gauge reads the pressure being supplied to the beverage keg. Follow the proce-dure below to adjust the pressure to 12 - 14 psi (0.8 to 1 bar) for lager beer or 9-12 psi (0.6 to 0.8 bar) for ale's.

To adjust the pressure (Single Gauge):

- 1. Close the shutoff valve at the bottom of the regulator.
- 2. Be sure the faucet handle is closed on the tower.
- 3. Loosen the lock nut by turning of counterclockwise using the ½" open end wrench until loose, this will allow adjustment of the pressure adjustment screw.
- 4. With the flat bladed screwdriver turn the adjustment screw \circ clockwise to increase the pressure or \circ counterclockwise to decrease the pressure.
- 5. Open the shutoff valve on the bottom of the regulator. The gauge reading may drop but will return very quickly.
- 6. Pull the ring on the keg coupler to allow the gas to flow momentarily.
- 7. Make any fine adjustments if necessary with the adjust-ment screw.
- 8. Tighten the locknut with the ½" open end wrench by





(Regulator for Single Dispense Tower)

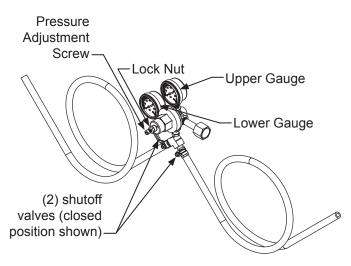
CO₂ or Nitrogen Regulator (Double Dispense Tower)

Your beverage dispenser comes equipped with a 5 pound tank and a dual gauge regulator. The lower gauge should be reading approximately 750 psi (52 bar) when the tank is properly filled and the tank is not in the refrigerator (at room temperature). The tank will read less when chilled. Use this lower gauge as an indicator of how much CO₂ or nitrogen you have left in the tank.

The upper gauge reads the pressure being supplied to the beverage keg. Follow the procedure below to adjust the pres-sure to 12 - 14 psi (0.8 to 1 bar) for lager beer or 9 - 12 psi (0.6 to 0.8 bar) for ale's.

To adjust the pressure (Upper Gauge):

- 1. Close the shutoff valves at the bottom of the regulator.
- 2. Be sure the faucet handle is closed on the tower.
- 3. Loosen the lock nut by turning of counterclockwise using the ½" open end wrench until loose, this will allow adjustment of the pressure adjustment screw.
- 4. With the flat bladed screwdriver turn the adjustment screw \circ clockwise to increase the pressure or \circ counterclockwise to decrease the pressure.
- 5. Open the shutoff valve on the bottom of the regulator. The gauge reading may drop but will return very quickly.
- 6. Pull the ring on the keg coupler to allow the gas to flow momentarily.
- Make any fine adjustments if necessary with the adjustment screw.
- 8. Tighten the locknut with the $\frac{1}{2}$ " open end wrench by turning clockwise $\frac{1}{2}$.



(Regulator for Double Dispense Tower)

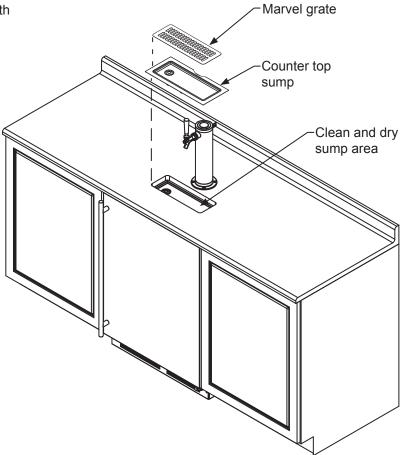
Drain kit (All Models): The drain kit is shipped in place and ready to use. **To empty:** Pull drain hose out of bottle cap, remove bottle from unit, unscrew cap and discard waste and rinse bottle. Reinstall bottle in unit.

Push faucet handle back toward tower to close the faucet grate for cleaning sump area

Cleaning the drain sump:

On a **free standing beverage dispenser** remove the Marvel grate from in front of the tower, clean with soap and water and dry before reinstalling. Clean the sump area with soapy water and dry.

On a **built in beverage dispenser** remove the Marvel grate and counter top sump, clean with soap and water and dry before reinstalling. Clean the sump area with soapy water and dry.



USING YOUR ELECTRONIC CONTROL



Figure 13 Electronic control

Control Function Guide

Function	Command	Notes
ON/OFF	Press (1) 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 ^O F / ^O 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.
Enable Sabbath Mode	Press and hold for 5 seconds and release.	The ^o F / ^o 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 $^{\textcircled{1}}$ and $^{\textcircled{2}}$ for 5 seconds.	The °F/°C symbol will flash. Display will be lit and interior light will function. Unit will not cool . Repeat command to return to normal operation.

Adjust Temperature - MLBD AND MLWD MODELS ONLY:

Press or and release to adjust the upper zone. Press to change to lower zone. Press or and release to adjust.

Upper (38°F - 65°F)

Lower (38°F - 65°F)

The upper temperature must be \geq the lower temperature, maximum 20° higher.

Note: Adjusting the temperature in the lower zone may result in the upper zone automatically adjusting. When adjusting the upper zone, control will not go beyond the maximum temperature spread.

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

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.

High/Low Temp. Notifications

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

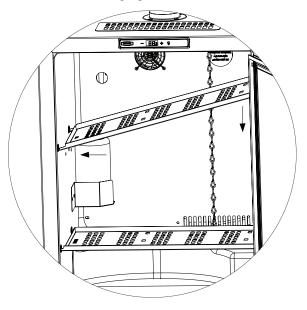
- "HH" will appear in display (High Temp)
- "LL" will appear in display (Low Temp)

Contact service dept. for further instructions.

INTERIOR ADJUSTMENTS

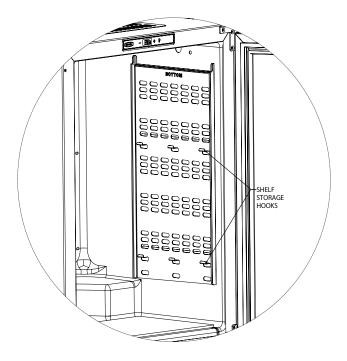
Installing the Shelves:

With flanges pointing up, insert the shelf tabs into the liner holes on the left side of the unit. Rest the right side of the shelves on the shelf hanging brackets.



Shelf Storage

When not in use, stack the shelves together and hang on the shelf storage hooks. The flanges must be facing outward.



NOTE

The shelves are labeled "Top" and "Bottom". The bottom shelf fits inside of the top shelf for storage convenience.



Never try to remove a loaded shelf, remove everything from the shelf before moving. Use both hands when removing the shelf.

STAINLESS STEEL MAINTENANCE

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 contaminates. 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 finish.

NOTE

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 manufacturer.

ENERGY SAVING TIPS

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.

LONG-TERM STORAGE / WINTERIZATION:

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).

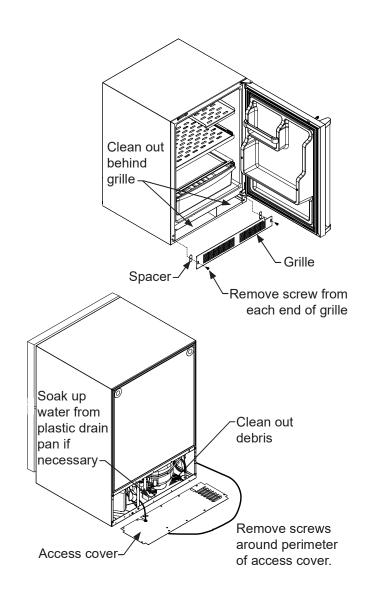


Operation of the unit at ambient temperatures below the recommended Winterization temperature will void your warranty.

- 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.
- When cleaning unit pay particular attention to any cracks and crevices that may have accumulated dirt.
- 8. Remove the front toe-grille, and use a brush and vacuum to clean dirt and debris.
- 9. Thoroughly clean the toe-grille and re-install on the unit.
- Remove the rear access cover, 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".
- 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.

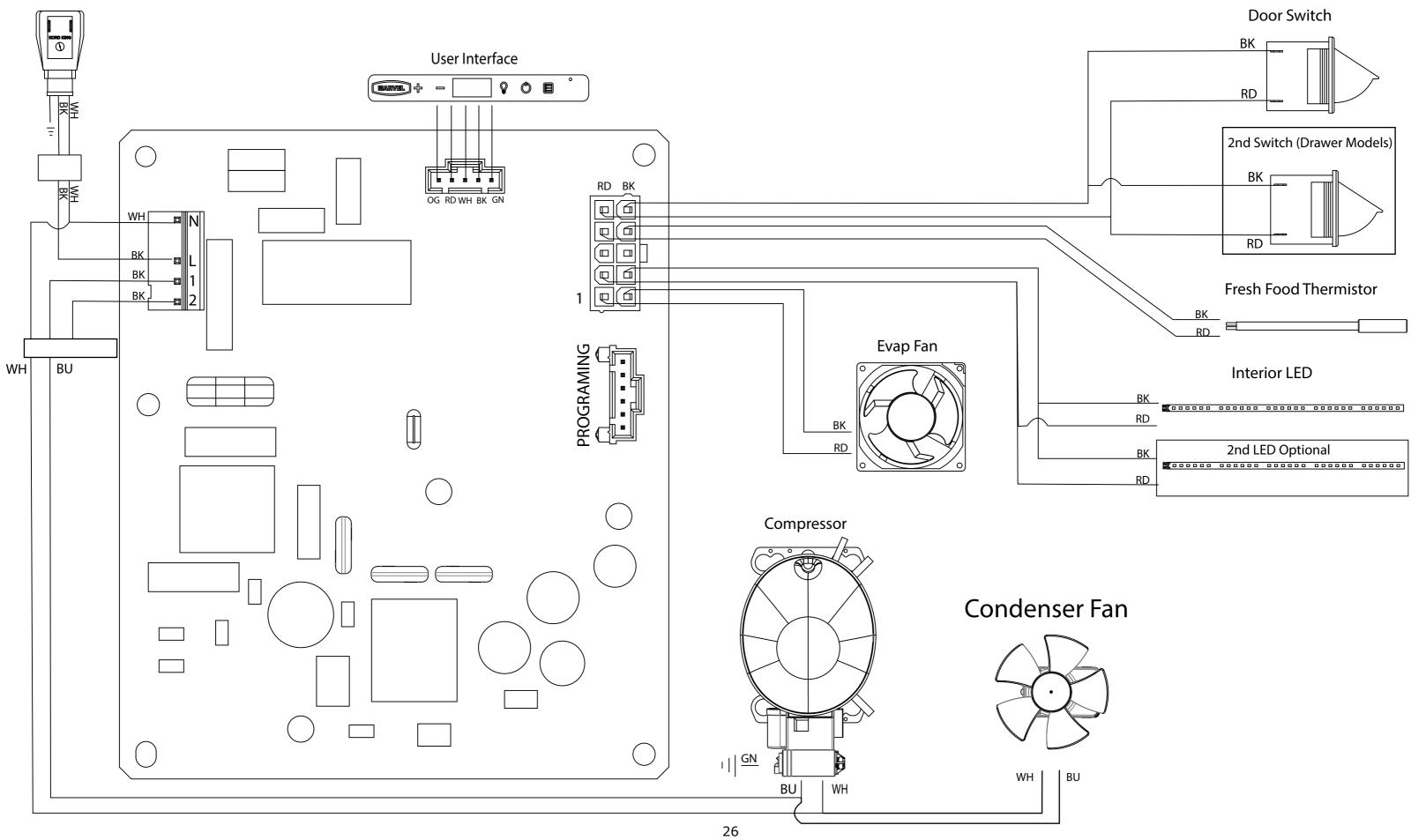
OBTAINING SERVICE

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 Yo	ur 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





Product Liability

Field service technicians are authorized to make an initial assessment in the event of reported damages. If there are any questions about the process involved, the technician should call Marvel for further explanation.

While inspecting for defects or installation issues, photos should be taken to document any damages or issues found.

During the assessment, if the service technician is able to find the source of the damage and it can be resolved by replacement of a part, the servicer is authorized to replace the part in question. The part that caused the damage must be returned to Marvel in its entirety. The part must be clearly labeled with the serial number of the unit it was removed from, the date, and the servicer who removed the part.

If the service technician determines the damage is the result of installation issues (water connection/drain, etc.), the consumer would be notified and the issues shall be resolved at the direction of the consumer.

If damage is evident and the service technician is unable to find the source, Marvel must be contacted at 616.754.5601 for further direction.

1260 E. Van Deinse St • Greenville, MI 48838 T: +1.616.754.5601

Website: www.marvelrefrigeration.com

The original refrigeration experts since 1892.



Warranty Claims

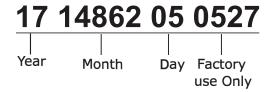
The following information defines the parameters for filing a warranty claim:

- Valid serial number needed
- Valid model number needed
- Claims must be submitted online at www.marvelservice.com
- 60 day submittal deadline from date of completed service
- Only one repair or unit per warranty claim
- Part order numbers will be required when submitting for warranty labor

Units must be registered prior to warranty submittal. Customers may register at www.marvelrefrigeration.com. A proof of purchase is required. We also accept the following information to update warranty:

- New construction occupancy documents
- Closing paperwork
- Final billing Remodel

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.



Warranty Claims 28



Ordering Replacement Parts

Parts may be ordered online at partsformarvel.com

Or contact:

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

Phone Number: (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.

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.partsformarvel.com. Authorized servicers with a servicer login may order non-warranty parts at www.marvelrefrigeration.com.



R-600A Specifications & Handling

WARNING

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.

R-600A Specifications 30



▲ 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

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.

R-600A Specifications



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



Compressor Specifications



Electrocution can cause death or serious injury. Burns from hot or cold surfaces can cause serious injury. Take precautions when servicing this unit.

Disconnect the power source.

Do not stand in standing water when working around electrical appliances.

Make sure the surfaces you touch are not hot or frozen.

Do not touch a bare circuit board unless you are wearing an anti-static wrist strap that is grounded to an electrical ground or grounded water pipe.

Handle circuit boards carefully and avoid touching components.

	ESX36CBC
REFRIGERANT	R600A
VOLTAGE	115-127 VAC
FREQUENCY	60 Hz
START WINDING	11 Ohm at 77° F
RUN WINDING	11 Ohm at 77° F
RUN TO START	22 Ohm at 77° F
LRA	5.35 A
FLA	0.83 A
STARTING DEVICE	Run cap 8EA14C3/8EA14E62/8EA14E63
OVERLOAD	OLP 4TM283KFBYY-53

^{*}All resistance readings are \pm 10%



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 utilized on the 1, 3, and 5 Class units allow 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 Refrigeration, "Customer Care Facility" at 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.	

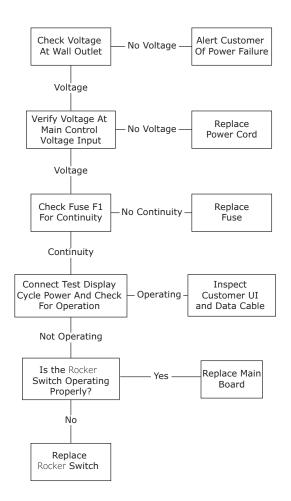


MAIN CONTROL

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.

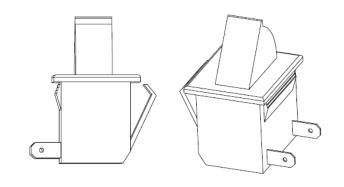




Precautions must be taken while working with live electrical equipment. Be sure to follow proper safety procedures while performing tests on live systems.

ROCKER SWITCH

A rocker switch is used to monitor door state. When the door is closed it comes into contact with the rocker which closes a circuit which turns the light and display off. When the door is open the rocker 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.

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 **one** thermistor.

Thermistor (Zone):

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

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.

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

^{* (+/- 5%)}

Defrost

Outdoor units defrost every 3 hours of compressor runtime for 40 minutes. If you have verified that the unit does not have an ambient air leak, utilize the **Control Operation - Service** section and adjust unit to defrost every 2 hours for 60 minutes

Defrost 41



Remove Fan and Cover

CONVECTION COOLING

This unit is equipped with an advanced convection cooling system. Convection cooling stabilizes cabinet temperature, cools product faster and increases energy efficiency.

Evaporator Fan

The evaporator fan is responsible for circulating warm air from the refrigeration zone, past the evaporator and back into the refrigerated zone.

The evaporator fan is factory set to have a 1 minute delay at the beginning of a cooling cycle. This delay gives the evaporator time to cool properly before warm air is passed over it. The fan will continue to run for an additional 2 minutes at the end of a cooling cycle. Fan delay times can be modified through the service menu.

Evaporator fan operation is also determined by door switch state. If the door switch circuit opens, the fan will stop. When the door switch circuit is closed the fan will either continue running with the cooling cycle, or if not currently cooling, the fan will run for 1 minute to circulate air and clear any condensation that may have appeared on glass doors and shelves.

Note: If the unit is set to sabbath mode, the evaporator fan will no longer respond to the state of the door switch.

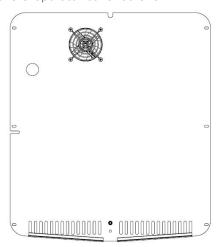
In order to operate efficiently, the evaporator fan blade and vents should be unobstructed and free of any dust buildup.

Evaporator Fan Replacement

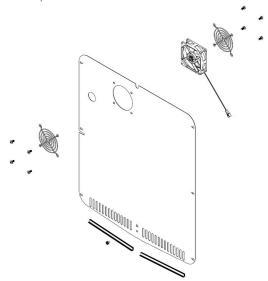
Should the evaporator fan need to be replaced follow the steps below.

- 1. Remove any product from the unit.
- 2. Remove unit from cabinetry to access rear.
- 3. Disconnect power to the unit.
- 4. Remove back panel from unit.
- 5. Disconnect fan electrical connection at rear of unit.

- 6. Remove insulating foam from refrigerant line passthrough hole as needed to gain clearance for fan plug.
- 7. Remove internal shelving.
- 8. Remove evaporator cover screws.



- 9. Grasp evaporator cover, pull forward and up as bottom of cover is installed behind the front edge of the drain trough.
- 10. While pulling the evaporator cover clear of the unit, it may be necessary to use your free hand to manipulate the fan plug end through the pass-through hole.
- 11. Remove the 4 screws mounting the fan shroud to the evaporator plate.



12. Remove and replace fan. Take special care to properly route fan wire.

Remove Fan and Cover

NOTICE

Fan must be oriented to pull air in through lower evaporator cover vents and push air out at fan mounting location.

- 13. Installation is the reverse of removal.
- 14. Care must be taken to assure the bottom of the evaporator cover is reinstalled behind the front edge of the train trough.
- 15. Use sealant gum to seal any openings at rear of unit before replacing rear cover.
- 16. Reinstall unit taking care to level, space and secure as found.

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

1260 E. Van Deinse St., Greenville, MI 48838



www.marvelrefrigeration.com

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616.754.5601