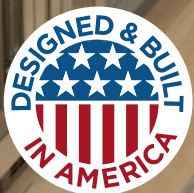


MARVEL

OWNER'S GUIDE

MARVEL UNDERCOUNTER REFRIGERATION

FOR MODEL # MLNP115



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!

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.

MARVEL			
GREENVILLE, MI 48838			
MODEL NO.	<input type="text"/>		
SERVICE NO.	<input type="text" value="XXXXXXXXXX"/>		
SERIAL NO.	<input type="text" value="XXXXXXXXXX"/>		
HZ <input type="text"/>	VOLTS <input type="text"/>	AMPS <input type="text"/>	R600A <input type="text"/> g
TEST PRESSURE 140 PSI LOW SIDE 300 PSI HIGH SIDE			

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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.



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:

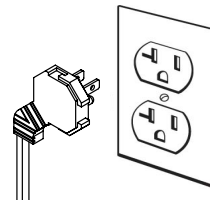
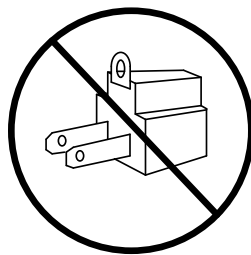
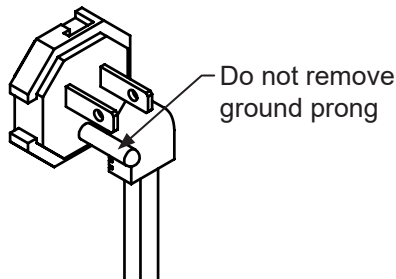
- Take off the doors or remove the drawers.
- Leave the shelves in place so children may not easily climb inside.

ELECTRICAL

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



NOTE

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



WARNING

Electrical Shock Hazard

- Do not use an extension cord with this appliance. They can be hazardous and can degrade product performance.
- This appliance should not, under any circumstances, be installed to an ungrounded 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.

Side-by-Side Installation

Two units may be installed side-by-side.

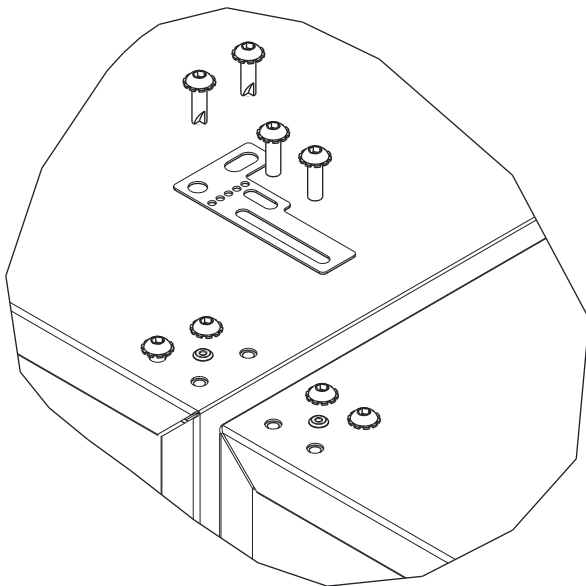
Cutout width for a side-by-side installation is the cutout dimension of a single unit times two.

No trim kit is required. However, 1/4" (6 mm) of space needs to be maintained between the units to ensure unobstructed door swing.

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

Side-by-Side Installation with Bracket

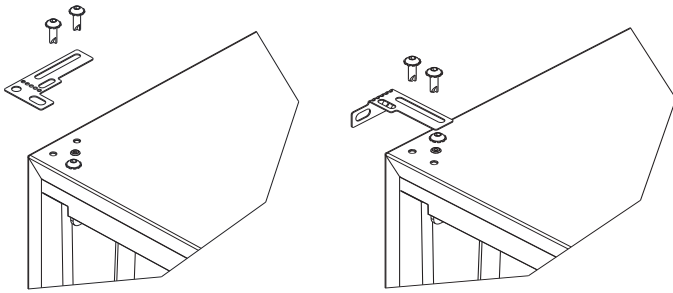
1. Slide both units out so screws on top of units are easily accessible.
2. Remove screws as shown below.



3. Place bracket over holes and attach to unit with two screws removed in step 2 using a T-25 Torx driver. Tighten screws fully.
4. Gently push units into position. Be careful not to entangle the electrical cord or water line, if applicable.
5. Re-check the leveling, from front to back and side to side. Make any necessary adjustments. The unit's top surface should be approximately 1/8" (3 mm) below the countertop.

Anti-Tip Bracket

1. Slide unit out so screws on top of unit are easily accessible.
2. Remove the two screws from the opposite side of the hinge assembly using a T-25 Torx driver (see below).



3. Place bracket over holes and attach to unit with two screws removed in step 2 using a T-25 Torx driver. Tighten screws fully.
4. Gently push unit into position. Be careful not to entangle the electrical cord or water line, if applicable.
5. Check to be sure the unit is level from front to back and side to side. Make any necessary adjustments. The unit's top surface should be approximately $\frac{1}{8}$ " (3 mm) below the countertop.
6. Secure bracket into adjoining surface.

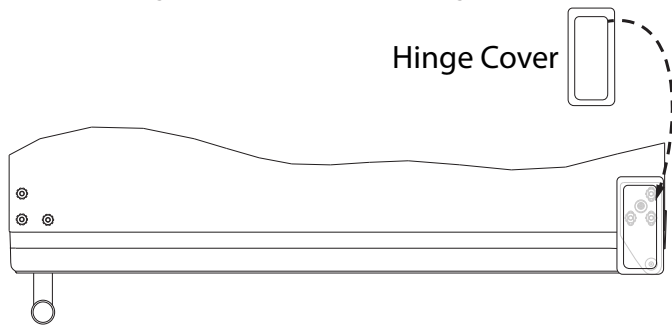
Door Adjustments

HINGE COVER

Hinge cover included with the literature bag is optional.

To install hinge cover:

1. Press hinge cover squarely over hinge.



DOOR ALIGNMENT AND ADJUSTMENT

Align and adjust the door if it is not level or is not sealing properly. If the door is not sealed, the unit may not cool properly, or excessive frost may form in the interior.

NOTICE

Properly aligned, the door's gasket should be firmly in contact with the cabinet all the way around the door (no gaps). Carefully examine the door's gasket to ensure that it is firmly in contact with the cabinet. Also make sure the door gasket is not pinched on the hinge side of the door.

To align and adjust the door:

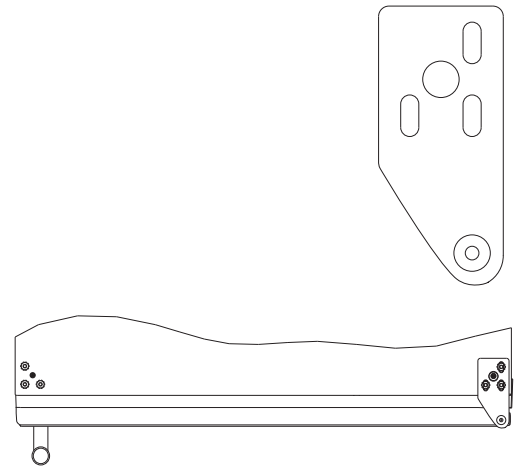
1. Gently pry off hinge cover from top of unit.
2. Loosen (do not remove) top and bottom hinge screws using a Torx T-25 screwdriver.
3. Align door squarely with cabinet.
4. Make sure gasket is firmly in contact with cabinet all the way around the door (no gaps).
5. Tighten bottom hinge screws.
6. Tighten top hinge screws and replace hinge cover.

REVERSING THE DOOR

Location of the unit may make it desirable to mount the door on the opposite side of the cabinet.

The hinge hardware will be removed and reinstalled on the opposite side of the cabinet.

TO REVERSE THE DOOR

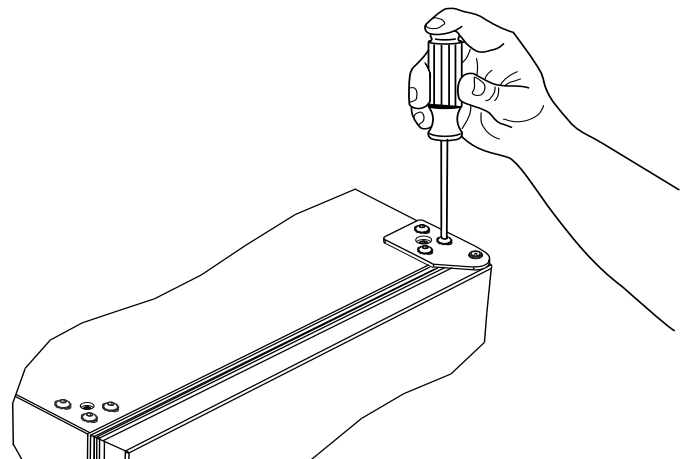


Remove grille:

Remove the grille (see GRILLE INSTALLATION section of this guide).

Remove top hinge and door:

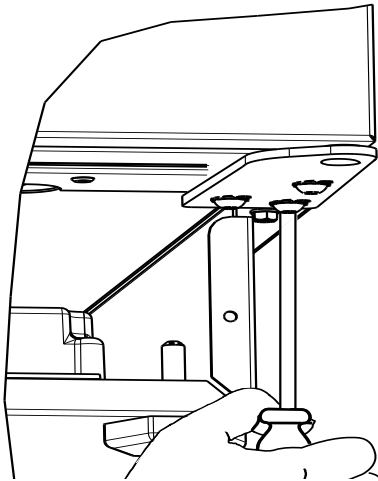
1. Hold door to keep it from falling.
2. Remove top hinge from cabinet using a Torx T-25 screwdriver to remove three screws. Set aside and save for possible future use.



3. Remove door by tilting forward and lifting door off bottom hinge. Retain shoulder washers; they will be reused.
4. Remove three screws from hinge holes on the opposite side. Reinstall into holes where the hinge was removed. (If utilizing supplied screw cover, install just one screw.)

Remove bottom hinge:

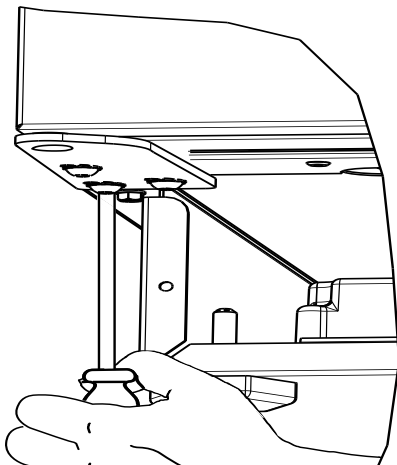
1. Remove bottom hinge from cabinet using a T-25 TORX screw driver to remove three screws.



2. Remove corresponding screws on opposite side of cabinet. On some models there may be a nut behind one or both screws on either side.

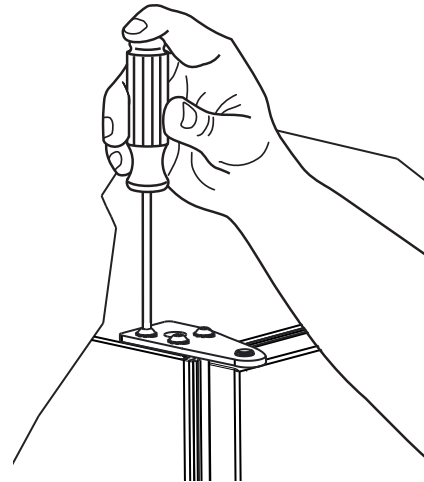
Install bottom hinge:

Install two or three screws, depending on model. Replace nuts if used.



Install top hinge and door:

1. Install hinge with longer straight edge aligned to outside edge of cabinet. Do not tighten.



2. Rotate door 180° and set on bottom hinge.
3. Align edge of the hinge with the outer edge of the unit.
4. Tighten three hinge screws.

Align and adjust the door:

Align and adjust the door (see DOOR ALIGNMENT AND ADJUSTMENT)

Install grille and hinge cover

INSTALLING THE WATER SUPPLY

Water Hookup

PREPARE PLUMBING

The water valve uses a standard 1/4" (6.35 mm) compression fitting.



CAUTION

Plumbing installation must observe all state and local codes. All water and drain connections **MUST BE** made by a licensed/qualified plumbing contractor. Failure to follow recommendations and instructions may result in damage and/or harm.

Water Supply Connection

When connecting the water supply, please note the following:

- A TDS meter is included with your unit
- Water Treatment Options
 - TDS between 400-600 and/or hardness between 13-20 can be treated by Marvel's in-line water filter accessories available at marvelrefrigeration.com or your local dealer:
 - S41016343 ACCY - Standard
 - S41016344 ACCY - Large
 - S41016345 ACCY - Filter head 3/8" NPT, initial setup requires head & filter
 - Use bypass level 6

Water Quality	1-3 Users	4+ Users
400 TDS and/or 12 gpg hardness or less	Optional Standard Filter Change 1x per year	Optional Large Filter Change 1x per year
401-600 TDS and/or 13-20 gpg hardness	Required Large Filter Change 1x per year	Required Large Filter Change 2x per year
601 + TDS, and/or 21 + gpg hardness	Contact your local water professional	Contact your local water professional



WARNING

WARNING- Connect to potable water supply only.

- Water Mineral Content:
- TDS: greater than 5 ppm (mg/l) but less than 400 ppm (mg/l)
- Hardness: less than 200 mg/l (12 gpg)
- Not recommended for use with softened water

Do not use any plastic water supply line. The line is under pressure at all times. Plastic may crack or rupture with age and cause damage to your home. Do not use tape or joint compound when attaching a braided flexible water supply line that includes a rubber gasket. The gasket provides an adequate seal – other materials could cause blockage of the valve. Failure to follow recommendations and instructions may result in damage and/or harm, flooding or void the product warranty. Use new hose set. Do not reuse old hose set.



CAUTION

Turn off water supply and disconnect electrical supply to unit prior to installation. Use caution when handling back panel. The edges could be sharp.

1. Turn off water supply and disconnect electrical supply to product prior to attempting installation.
2. Remove the back panel.
3. Thread water line through back panel hole (with bushing).
4. Locate water valve inlet and connect to valve.
5. Turn on water supply and check for leaks.
6. Reinstall back panel.

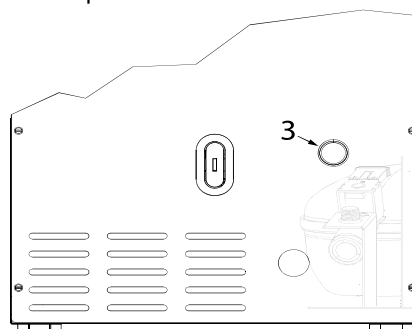


Figure 24

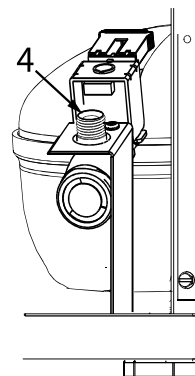


Figure 25

CARE AND CLEANING

Cleaning

EXTERIOR CLEANING

Stainless steel can discolor when exposed to chlorine gas, pool chemicals, saltwater or cleaners with bleach. Keep your stainless unit looking new by cleaning with a good quality all-in-one stainless steel cleaner and polish monthly. For best results use Claire® Stainless Steel Polish and Cleaner. Comparable products are acceptable. Frequent cleaning will remove surface contamination that could lead to rust. Some installations may require cleaning weekly.



CAUTION

Do not clean with steel wool ads. Do not use cleaners not specifically intended for stainless steel on stainless steel surfaces (this includes glass, tile, and counter cleaners).

If any surface discoloring or rusting appears, clean it quickly with Bon-Ami® or Barkeepers Friend Cleanser® and a nonabrasive cloth. Always clean with the grain. Always finish with Claire® Stainless Steel Polish and Cleaner or comparable product to prevent further problems.



CAUTION

Using abrasive pads such as ScotchBrite™ will cause the graining in the stainless steel to become blurred. Rust not cleaned up promptly can penetrate the surface of the stainless steel and complete removal of the rust may not be possible.

INTERIOR CLEANING

Disconnect power to the unit.

Clean the interior and all removed components using a mild nonabrasive detergent and warm solution applied with a soft sponge or non-abrasive cloth.



Rinse the interior using a soft sponge and clean potable water.



CAUTION

Do not use any solvent-based or abrasive cleaners. These types of cleaners may transfer taste and/or odor to the interior products and damage or discolor the interior.

ICE MACHINE CLEANING CYCLE

This ice machine has an automatic clean alert function. The control will indicate  in the display, approximately every six months with normal use, reminding you to clean your unit. When  is displayed, ice production will continue. Depending on water conditions, more frequent cleaning may be necessary. Cleaning removes lime scale, other mineral deposits, and sanitizes the machine. Poor ice quality and reduced ice output are signs that cleaning is necessary. If the machine consistently requires more frequent cleaning, consult a plumber to test the water quality and recommend appropriate treatment.

TDS (Total Dissolved Solids) Level mg/L (ppm)	Cleaning Interval
5 - 150	6 months
150 - 250	4 months
250 - 400	3 months (or sooner)
Hardness Level mg/L (ppm)	Cleaning Interval
0 - 66	6 months
67 - 133	4 months
134 - 200	3 months (or sooner)

CARE AND CLEANING

Under normal conditions cleaning should be done when the display shows . You may initiate a cleaning cycle at any time by pressing and holding the clean button for 10 seconds. will appear in the display indicating the start of the cleaning process.

Failure to clean may reduce the quality and quantity of ice produced. Once the clean cycle begins, it can be canceled by pressing three times. Press once more to start making ice. The clean cycle will automatically cancel if user fails to activate control at steps 2, 3b, and 5b within 2 hours.

Required for cleaning:

- Hose and funnel - provided with unit
- Bucket and cleaning sponge
- Clean potable water
- SafeCLEAN Plus™ Cleaner
1-8oz. bottle - Available for purchase from Marvel

Need more cleaner? Call Marvel Customer Service at 616.754.5601.



CAUTION

Use only SafeCLEAN Plus™ Cleaner. Use of any other cleaner may damage the finish of the evaporator and will void the warranty. Follow safety and handling instructions printed on the SafeCLEAN Plus™ bottle.

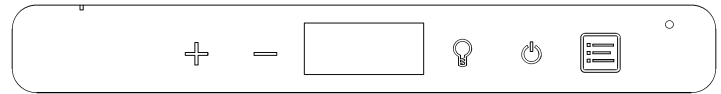


Figure 38

1. Press and Hold for 10 seconds
 - a. will appear in the display
 - b. Remove access shield
 - c. Remove all ice in bin
 - d. Remove any ice protruding from the ice dispenser tube.
2. Insert the end of the cleaning tube into the ice dispenser; slowly pour in approximately 1 quart of hot (min. 100° F) potable water. This will melt ice inside the dispenser tube. It is normal for some water to flow from the ice dispenser tube and exit from the vent tube while pouring. Omit this step if no ice is in the ice dispenser tube.

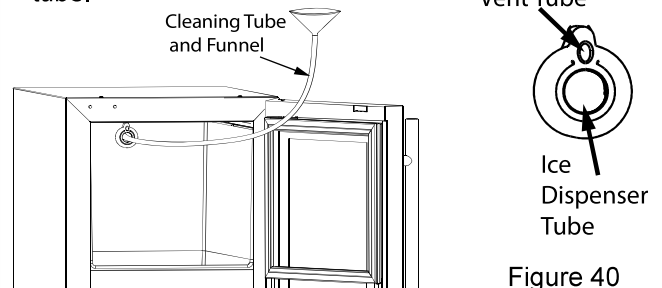


Figure 39

Figure 40

3. Press and release
 - a. will appear in the display
 - b. Mix 4 ounces of SafeCLEAN Plus™ with 2 quarts of potable water.
4. Wait until appears in the display
 - a. Using the funnel and cleaning tube, slowly pour 3/4 of the cleaning solution into the dispenser tube. Air and some water will exit the vent tube. Remove cleaning tube.
 - b. Press and release
5. will appear in the display
 - a. The machine will circulate the solution, cleaning and sanitizing the internal components, for approximately 20 minutes.
 - b. While the machine is circulating the cleaning solution, use 1/2 of the remaining cleaning solution and a sponge to wipe down the inside of the ice bin and scoop. Rinse with clean potable water.
6. When appears in the display, 3 soft tones will sound, indicating the cleaning phase is complete.
 - Using the hose and funnel, slowly pour 1.5 quarts (48 oz.) of clean potable water into the ice dispenser tube. Air and some water will exit the vent tube.

CARE AND CLEANING

7. **06** will appear in the display
 - a. Reinstall shield and close door.
 - b. The machine will circulate water and perform a series of final rinses for approximately 15 minutes.
 - c. The unit will resume making ice - indicated by 3 soft tones and **ICE** scrolling in the display.
 - d. Discard first 10 minutes of ice production.

Cleaning Condenser

INTERVAL - EVERY SIX MONTHS

To maintain operational efficiency, keep the front grille free of dust and lint, and clean the condenser when necessary. Depending on environmental conditions, more or less frequent cleaning may be necessary.



WARNING

WARNING - Connect to potable water supply only.

NOTE

DO NOT use any type of cleaner on the condenser unit. Condenser may be cleaned using a vacuum, soft brush, or compressed air.

1. Remove the grille (See GRILLE INSTALLATION).
2. Clean the condenser coil using a soft brush or vacuum cleaner.
3. Install the grille.

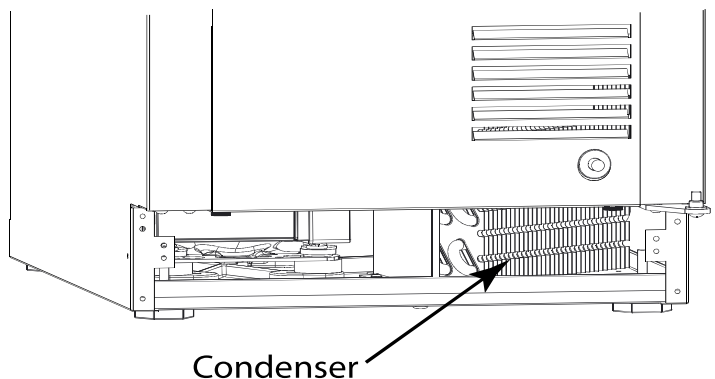


Figure 41

CARE AND CLEANING

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. Turn off the water supply.
4. If ice is on the evaporator, allow ice to thaw naturally.
5. Clean and dry the interior of the unit. Ensure all water has been removed from the unit.
6. Disconnect the water and drain line (if applicable) making sure all water is removed from the lines.
7. 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°F (5°C) or less, the steps above must be followed. In addition, P60 drain pumps must be drained according to the following procedure:

1. Remove the drain pump from the ice machine.
2. Drain the water in the pump's reservoir by turning the pump upside down and allowing the water to drain through the pump's inlet and vent tube fittings.
3. After water is drained, reinstall the drain pump and reattach all connections.

For questions regarding winterization, please call Marvel Refrigeration at 616.754.5601



Damage caused by freezing temperatures is not covered by the warranty. Do not put anti-freeze in your unit.

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 contaminants. Additionally, any mounting hardware that is showing signs of corrosion should be replaced.

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

Choosing a Cleaning Product

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

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

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

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

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

Troubleshooting

BEFORE CALLING FOR SERVICE

If you think your Marvel product is malfunctioning, read the CONTROL OPERATION section to clearly understand the function of the control.

If the problem persists, read the NORMAL OPERATING SOUNDS and TROUBLESHOOTING GUIDE sections below to help you quickly identify common problems and possible causes and remedies. Most often, this will resolve the problem without the need to call for service.

If your product needs service, please go to www.marvelrefrigeration.com and navigate to the Service page to locate a Marvel Authorized servicer. If your product is in warranty please make sure to register it at www.marvelrefrigeration.com/warranty-registration. If you have any issues following this process you can contact Marvel Refrigeration by phone at +1.616.754.5601.

If you call, you will need your product Model and Serial Numbers. This information appears on the Model and Serial number plate located on the interior of your product, most often placed on the ceiling.

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 operating 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.
- Running Water: As your unit continues to produce ice you will hear water flowing into the collection chambers and running through the evaporator.

TROUBLESHOOTING GUIDE



ELECTROCUTION HAZARD. Never attempt to repair or perform maintenance on the unit before disconnecting the main electrical power.

Troubleshooting - What to check when problems occur:

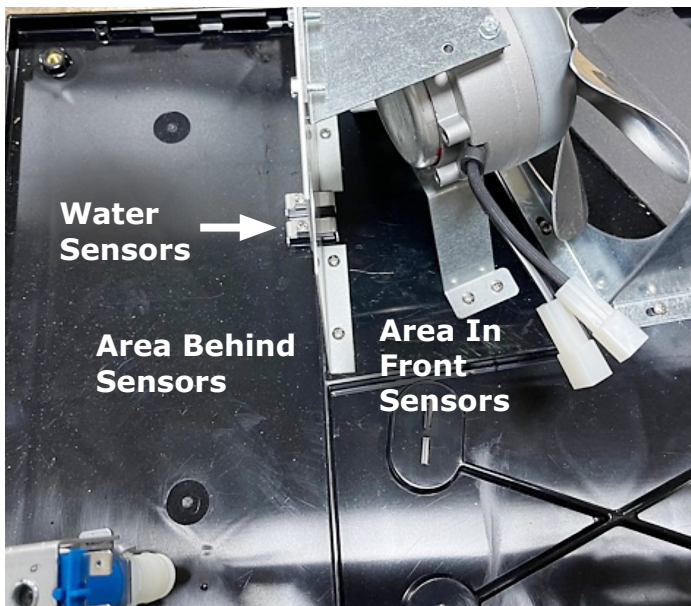
Problem	Possible Cause and Remedy
Unit Does Not Operate. Electronic Display Blank.	No electrical supply. Plug unit in or check circuit breaker.
Display Showing Error Code.	If display shows error "dr", check to make sure door is sealing correctly. Make sure to close door completely. If sealing the door does not clear the error, contact U-Line service for more information.
Unit Develops Condensation on External Surfaces.	The unit is exposed to excessive humidity. Moisture will dissipate as humidity levels decrease.
Poor Ice Quality.	Unit may not be level. Check if unit is level. Ice maker system may be dirty. Clean the ice maker.
No Ice Production.	Ensure water is being supplied to the unit. Verify the ice making unit is turned on.
Not Enough Ice.	Ensure the condenser coil is clean and free of any dirt or lint build-up.
Water in Ice Bin.	Drain may be restricted, ensure drain is free of foreign debris.

APPENDIX

E11: Sensor in base near fan detecting water

This sensor is designed to detect water escaping the product due to any type of malfunction inside the machine. Once activated, the only way to reset this error is to completely dry the two probes and cycle power to the machine via the rocker switch or power cord. Once power is cycled, it will take 20 minutes to reactivate the error code. Only the drain pump will retain power and be able to activate under this condition.

Inspect the entire base area in front and behind the sensors.



1. If the unit is equipped with a drainage pump, inspect it for leaks - check connections.
2. Remove pump and check all connections on water valves, water supply, and drain.
3. Check bolt on water reservoir. If loose, it may leak during a clean cycle when reservoir is filled to the top. Torque Spec. is 16 in-lbs.
4. Check areas around ice maker auger on both ends. If any leakage is evident, it is likely poor water quality and/or failure to clean is the cause.
 - a. Check TDS - if outside tolerance, please report to factory and advise homeowner that repairs cannot be made to unit until water quality issue is resolved. Filters available at u-line.com are able to treat TDS up to 600.

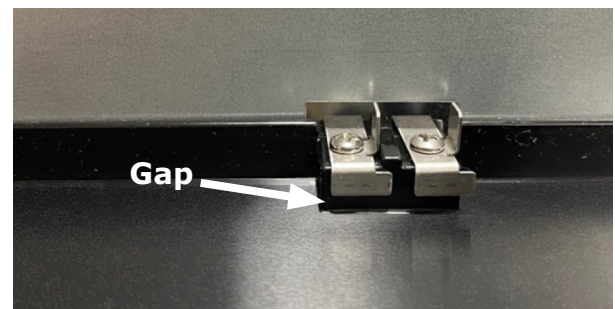
- b. If TDS is acceptable, unit must be cleaned and any leakage addressed with a seal kit. (Marvel service part # 80-55371-13)

Area in Front of Sensors (Condenser Side) is Wet

- Check connection from bin to drain.

No Water is Evident

1. Power cycle to reset error
2. Check sensors to ensure there is a gap between sensors and pan as shown.
3. If error persists, check wiring to sensors for a short.



E12: Float switch in reservoir not rising

This error is designed to ensure sufficient water exists to produce ice, thus preventing permanent damage to the module. In order for this error to occur, the ice-making sequence must initiate two tries to fill the reservoir. This may take an hour or more to generate the error code.

Steps to check and correct - remember it is necessary to power cycle after making the corrections.

1. Check incoming water supply to ensure it is turned on and has sufficient pressure.
2. Verify water filter(if applicable) is in place and has been replaced on schedule.
3. If unit is a 1 Class product, enter service mode and activate relay 4 to determine if unit fills with water.
 - a. If it does not fill, check water valve for power during sequence.
 - If there is power, check valve resistance to determine if coil is shorted.
 - Check valve to ensure it is not blocked with debris.

- b. If unit fills, the float switch is malfunctioning and needs to be replaced (part # 80-55538-00).
4. If unit is 3 Class product, enter service mode and activate relays 1 and 4 to determine if unit fills with water.
 - a. If it does not fill, check water valve for power during sequence.
 - If there is power, check valve resistance to determine if coil is shorted.
 - Check valve to ensure it is not blocked with debris.
 - b. If unit fills, the float switch is malfunctioning and needs to be replaced (part # 80-55538-00).

E13: Float switch in reservoir not dropping quickly enough

This error is designed to detect insufficient ice product due to overheating or poor water quality. Failure to address this error can cause permanent damage not covered under warranty. The user may notice deteriorating ice quality prior to the error.

Steps to check and correct - remember it is necessary to power cycle after making the corrections.

1. Ice is slushy and user noticed deterioration in quality prior to the error.
 - a. Check condenser and toe kick. Fan must be operating and clear of debris.
 - b. Check TDS level. High levels of TDS will result in this error.
2. In more severe conditions, not covered above, the unit may run up to an hour prior to generating this error, resulting in very slushy ice or no ice production at all.
 - a. High TDS. High TDS restricts ability to produce ice and causes excessive buildup of minerals on the ice-making mechanism. A single cleaning may not resolve this condition.
 - b. General cleaning has not been performed. A single cleaning may not resolve this condition.
 - c. If customer has unit connected to a water softener, have them consult a plumber to disconnect from the softener.

- d. Check compressor operation.
 - If unit is not cooling or compressor is not operating, diagnose and fix system problem.
 - If unit is cooling, check auger for rotation. If not rotating, check the motor and electrical connections to auger.
3. If the ice has been solid and appears solid after a power cycle check it is possible the float switch is not operating properly and should be replaced.

P1: Drain related error

This error is designed to prevent water related issues due to a failure of the unit to drain water. In most cases this error is not related to the unit and related to improper installation or restriction of the drain line.

1. If the unit does not have a drain pump this error is generated by a missing jumper on the power harness. Inspect and install jumper.
2. If the unit does have a drain pump.
 - a. Check the installation to ensure the drain line is not restricted leaving the unit.
 - b. Inspect the drain pump to determine if the motor is operating. A slight noise should be heard if the pump is full of water.

Ice Level Issues

If there is a complaint regarding the unit filling too full with ice.

1. Check the thermistor to ensure it is installed properly and any holes through the rear of cabinet are completely sealed with sealing compound. Warm air that can make its way to the thermistor will give improper readings and cause the bin to overfill.
2. The bin thermistor offset may be changed via service mode option #5. Be careful to adjust in small increments to suit customer preferences.

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.

2021 04 23 050H

Year	Month	Day	Factory use Only
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Ordering Replacement Parts

Parts may be ordered online at partsformarvel.com

Or contact:

www.marvelrefrigeration.com (Servicers choose "Login" for service account).

Phone Number: (616) 754-5601

NOTICE

Use only genuine Marvel replacement parts. The 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.

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.

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

SERVICE MODE GUIDE


0. Exit
1. Thermistor 1 temperature not including offsets.
2. Thermistor 2 temperature not including offsets.
3. Thermistor 3 temperature not including offsets.
4. Thermistor 4 temperature not including offsets.
5. Thermistor 1 offset. (+/- 10)
6. Thermistor 2 offset. (+/- 10)
7. Thermistor 3 offset. (+/- 10)
8. Thermistor 4 offset. (+/- 10)
9. Thermistor 2 set point
10. Thermistor 3 set point.
11. Thermistor 4 set point.
12. Defrost Interval (0 to 99 hr)
13. Defrost duration (0 to 99 min)
14. Error Log (See Appx D)
15. Clear error log (hold light key until cleared)
16. Thermistor 1 differential (+5)
17. Thermistor 3 differential (+5)
18. Evaporator fan on delay (0 to 99 sec)
19. Evaporator fan off delay (0 to 99 sec)
20. Individual component toggle
 - Option #0 - Exit
 - Option #1 - Relay 1
 - Option #2 - Relay 2
 - Option #3 - Relay 3
 - Option #4 - Relay 4
 - Option #5 - Relay 5
 - Option #6 - Relay 6
 - Option #7 - DC Output 1
 - Option #8 - DC Output 2
 - Option #9 - DC Output 3
 - Option #10 - DC Output 4
 - Option #11 - DC Output 5
 - Option #12 - Serial output (Compressor)
21. Model number
22. Light All Segments
23. Activate Defrost/Harvest- press and hold for 3 seconds to activate defrost/harvest
24. Defaults- press and hold for 3 seconds to restore all values to factory defaults.
25. Main Software (Display only)
26. Live Log Period (frequency that data is output to diagnostics port)
27. Factory test mode (0=Off, 1=On)
28. Compressor RPM
29. Freeze time adjust (Model 54 only)
30. Harvest time adjust (Model 54 only)
31. Low temp alarm limit (Model 55 only)
32. High temp alarm limit (Model 55 only)

SERVICE MODE GUIDE

1. **THERMISTOR 1 — ZONE**
This shows the pure thermistor reading with no offsets taken into account.
2. **THERMISTOR 2 — EVAPORATOR**
This shows the pure thermistor reading with no offsets taken into account.
3. Does not apply to this model.
4. Does not apply to this model.
5. **THERMISTOR 1 — ZONE OFFSET**
(DO NOT MAKE AN ADJUSTMENT TO THIS WITHOUT CONTACTING TECH LINE: 616-754-5601)
This calibration is only to be used if actual temperature at thermistor #1 is off from set point. By adjusting the offset higher we can force the unit to drive the temperature down below the set point.
(example: adjusting from 0 to +2 will drop the unit temperature 2 degrees)
6. **THERMISTOR 2 — EVAPORATOR OFFSET**
(DO NOT MAKE AN ADJUSTMENT TO THIS WITHOUT CONTACTING TECH LINE: 616-754-5601)
7. Does not apply to this model.
8. Does not apply to this model.
9. **THERMISTOR 2 — SET POINT MINUS OFFSET**
This shows the thermistor reading with offsets taken into account.
10. Does not apply to this model.
11. Does not apply to this model.
12. **ADJUST DEFROST INTERVAL — 3 TO 24 HOURS**
This will adjust the interval between defrosts from 3 to 24 hours. Adjusting from the factory settings may cause undesired temperature in the refrigerator section.
13. **ADJUST DEFROST DURATION — 0 TO 99 MINUTES**
The length of the defrost can be adjusted 0 to 99 minutes long. The other defrost parameters still apply. Lengthening a defrost may cause higher than normal temperatures in the refrigerator section.
14. **VIEW ERROR LOG**
A list of errors in the order they occurred will scroll on the display. All errors are logged in memory. Only door error is displayed on the display and has an audible signal.
E0: Door 1 (upper) open.
E1: Thermistor 1 open.
E2: Thermistor 2 open.

- E3:** Thermistor 3 open.
E4: Thermistor 4 open (Does not apply to this model).
E5: Thermistor 1 shorted.
E6: Thermistor 2 shorted.
E7: Thermistor 3 shorted.
E8: Thermistor 4 shorted (Does not apply to this model).
E9: Door 2 (lower) open.
P1: Pump Circuit open (Does not apply to this model).

15: **CLEAR ERROR LOG**

To clear errors, press and hold  (5 seconds) when CLR is flashing.

16: **THERMISTOR - 1 DIFFERENTIAL**

This number should not be adjusted.

17. Does not apply to this model.

18. **THIS NUMBER SHOULD NOT BE ADJUSTED**

19. **THIS NUMBER SHOULD NOT BE ADJUSTED**

20. **INDIVIDUAL COMPONENT TOGGLE**

Display #	Relay / Output
-----------	----------------

- Option #0 – Exit
- Option #1 – Relay 1
- Option #2 – Relay 2
- Option #3 – Relay 3
- Option #4 – Relay 4
- Option #5 – Relay 5
- Option #6 – Relay 6
- Option #7 – DC Output 1
- Option #8 – DC Output 2
- Option #9 – DC Output 3
- Option #10 – DC Output 4
- Option #11 – DC Output 5
- Option #12 – Serial output (Compressor)

SEE RELAY / OUTPUT CHART

21. **MODEL NUMBER INDICATOR**

Displays the two-digit model number of the specific unit. See Model list table.

22. **LIGHT ALL LED SEGMENTS**

This will illuminate all the LEDs on the display to ensure they work properly

23. **ACTIVATE DEFROST /HARVEST**

-Press and hold for 3 seconds to activate

24. **FACTORY DEFAULTS**

-Press and hold for 3 seconds to restore all values to factory defaults

25. **MAIN SOFTWARE**

26. Does not apply to this model

27. **FACTORY TEST MODEL**

0 = Off, 1 = On

28. **COMPRESSOR RPM**

29. **FREEZE TIME ADJUST (MODEL 54 ONLY)**

30. **HARVEST TIME ADJUST (MODEL 54 ONLY)**

31. **LOW TEMP ALARM LIMIT (MODEL 55 ONLY)**

32. **HIGH TEMP ALARM LIMIT (MODEL 55 ONLY)**

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

* (+/- 5%)

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

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



www.marvelrefrigeration.com

Marvel Refrigeration

1260 E. Van Deinse St.
Greenville MI 48838

616.754.5601

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