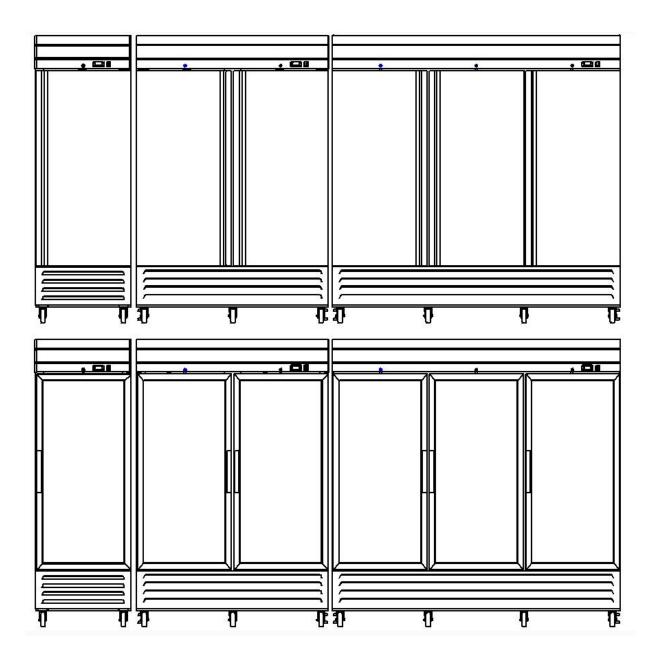
# SERVICE, INSTALLATION AND INSTRUCTION MANUAL



MVR-23FDHC/MVR-49FDHC/MVR-72FDHC MVR-23GDHC/MVR-49GDHC/MVR-72GDHC REACH-IN REFRIGERATOR

MVF-23FDHC/MVF-49FDHC/MVF-72FDHC REACH-IN FREEZER

**PLEASE READ CAREFULLY** 

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### INTRODUCTION

This user's manual is intended for installing, using and servicing your appliance. It is recommended that this manual be kept in an accessible place. Every machine is designed and manufactured according to the highest standards of safety and performance. It meets or exceeds UL 471 safety standards and sanitation standard NSF 7.

Our company assumes no liability or responsibility of any kind for products manufactured by our company that have been altered in any way, including the use of any parts and/or other components not specifically approved by our company.

Our company reserves the right to make design changes and/or improvements at any time. Specifications and designs are subject to change without notice.

### SERIAL NUMBER INFORMATION

- The serial number of all self-contained fridge/freezer is located inside the unit on the right and back the unit on the left.
- Always have the serial number of your unit available when calling for parts or service.

#### READ THIS MANUAL IN ITS ENTIRETY

TO HELP FAMILIARIZE YOURSELF WITH YOUR NEW EQUIPMENT BEFORE PROCEEDING.

We have provided many important safety messages in this manual.

Always read and obey all safety messages.

Understanding of safety messages will assist in alerting you to potential hazards, as well as tell you how to reduce the chance of injury. Follow the instructions as outlined in this manual.

Due to periodic changes in designs, methods, procedures, policies and regulations, the contents of this manual are subject to change without notice. While we exercise good faith efforts to provide information that is accurate, we are not responsible for errors or omissions in information provided or conclusions reached as a result of using this reference manual. By using the information provided rather than simply using it for reference purposes, the user assumes all risks in connection with such use.

### RECEIVING AND INSPECTING THE EQUIPMENT

Even though most equipment is shipped crated, care should be taken during unloading so the equipment is not damaged while being moved into the building.

- 1. Visually inspect the exterior of the package and skid or container. Any damage should be noted and reported to the delivering carrier immediately.
- 2. If the damage appears minor, open and inspect the contents with the carrier. Take photographs of the packaging before its opened. If the carrier is impatient & won't wait, return the goods if the damage appears to be anything more substantial then superficial harming of the external protective packing layers.
- 3. In the event that the exterior is not damaged, yet upon opening, there is concealed damage to the equipment, notify the carrier. Notification should be made verbally as well as in written form.
- 4. Request an inspection by the shipping company of the damaged equipment. This should be done within 10 days from receipt of the equipment.
- 5. Be certain to check the compressor compartment housing and visually inspect the refrigeration package. Be sure lines are secure and base is still intact.
- 6. Freight carriers can supply the necessary damage forms upon request.
- 7. Retain all crating material until an inspection has been made or waived.

### **APPLIANCE SAFETY**

Always read and obey all safety messages.



This is the Safety Alert Symbol. This symbol alerts you to potential hazards that can injure or kill you and others. All safety messages will follow the Safety Alert Symbol and either the words "DANGER", "WARNING" OR "CAUTION".

### DANGER

**DANGER** means that failure to heed this safety statement may result in Death or Severe Personnel Injury.

### WARNING

**WARNING** means that failure to heed this safety statement may result in extensive product damage, serious personal injury, or death.

#### CAUTION

**CAUTION** means that failure to heed this safety statement may result in minor or moderate personal injury, or property or equipment damage.

All safety messages will alert you to what the potential hazard is, tell you how to reduce the chance of injury, and let you know what can happen if the instructions are not followed.



### NOTE: IMPORTANT SAFETY INSTRUCTIONS

### WARNING

To reduce the risk of fire, electric shock or injury, when using your appliance, follow these basic precautions:

- Plug into grounded 3-prong outlet.
- Do not remove grounding prong.
- Do not use an adapter.
- Do not use an extension cord.
- Disconnect power before cleaning.
- Disconnect power before servicing.
- Use 2 or more people to move and install appliance.

# SAVE THESE INSTRUCTION

### IMPORTANT SAFEGUARDS



Before the appliance is used, it must be properly positioned and installed as described in this manual, so read the manual carefully. We strongly recommend that you have a professional install your new machine. The warranty may be affected or voided by an incorrect installation. To reduce the risk of fire, electrical shock or injury when using the appliance, follow basic precautions, including the following:

### **DANGER**

- It is recommended that a separate circuit, serving only your appliance, be provided. Use receptacles that cannot be turned off by a switch or pull chain.
- Please ensure that the required voltage is being supplied at all times.
- The unit should be plugged into a grounded and properly-sized electrical outlet with appropriate over-current protection.
- Ensure unit is not resting on or against the electrical cord.
- · Do not connect or disconnect the electric plug when your hands are wet.
- Never unplug the appliance by pulling on the power cord. Always grip the plug firmly and pull straight out from the
  outlet.
- Never clean appliance parts with flammable fluids. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. The fumes can create a fire hazard or explosion.
- Before proceeding with cleaning and maintenance operations, make sure the power line of the unit is disconnected.
- Unplug the appliance or disconnect power before cleaning or servicing. Failure to do so can result in electrical shock or death.
- If the unit is not in use for a long period of time, best to unplug the unit from the outlet.
- After unplugging or a power outage to the unit, wait at least 10 minutes before plugging it back in. Failure to do so
  could cause damage to the compressor.
- Do not operate the appliance with a frayed or crimped power cord.
- Do not attempt to repair or replace any part of your appliance unless it is specifically recommended in this manual. A qualified technician should do all other servicing or repairs.

### WARNING

- Use two or more people to move and install appliance. Failure to do so can result in back or other injury.
- This appliance must be properly installed and located in accordance with the Installation Instructions before it is used.
- Do not touch the cold surfaces in the appliance compartment when hands are damp or wet. Skin may stick to these extremely cold surfaces.
- Setting temperature controls does not remove power from the appliance, it must be turned off at the unit appliance circuit breaker or by unplugging it.
- To ensure proper ventilation for your appliance, choose a well-ventilated area with temperatures above 50°F (10°C) and below 86°F (30°C). If in an environment with a temperature between 86 and 104°F (30 to 40°C) use of a fan blowing into the utility compartment or similar auxiliary cooling of that area is required. This unit MUST be installed in an area protected from the elements, such as wind, rain, water spray or drips.
- The appliance should not be located next to ovens, grills or other sources of high heat.
- It is important for the appliance to be level for proper operation. You may need to make adjustments to level it.
- Remove the packing materials & be sure to discard them as the work area is policed. Clean the appliance before using.
- Do not use this apparatus for other than its intended purpose.
- Only trained, qualified personnel should attend to & monitor the appliance's performance and upkeep.
- Do not attempt to use the shelving as a ladder.

# **IMPORTANT SAFEGUARDS (cont.)**

### **Electrical Connection**

Do not, under any circumstances, cut or remove the third (ground) prong from the power cord. For personal safety, this appliance must be properly grounded. The power cord of this appliance is equipped with a 3-prong grounding plug that mates with a standard 3-prong grounding wall outlet to minimize the possibility of electric shock hazard from the appliance. Have the wall outlet and circuit checked by a qualified electrician to make sure the outlet is properly grounded. The appliance should always be plugged into its own individual electrical outlet which has a voltage rating that matches the rating label on the appliance. This provides the best performance and also prevents overloading house wiring circuits which could cause a fire hazard from overheated wires. Repair or replace immediately all power cords that have become frayed or otherwise damaged. Do not use a cord that has been crimped, shows cracks or has frayed insulation abrasion damage along its length or at either end. When moving the appliance, be careful not to damage the power cord.

# **Power Surges**

Connecting the unit to the incorrect voltage or oversized circuit protection (i.e. a breaker rated for over 20 amps) is not covered by the appliance warranty. Neither is a damaged power cord, using unauthorized electrical components and/or modifying the units wiring.

It is recommended that the appliance circuit doesn't incorporate either a GFI breaker or outlet.

Any complications created by use of a GFI are not covered by the unit's warranty as they are prone to inadvertently tripping off to often.

# **Refrigerant Disposal**

If you are throwing away your old appliance it may have a cooling system that uses "Ozone Depleting" chemicals.

Make sure the refrigerant is removed for proper disposal by a qualified service technician.

# **Appliance Disposal**

Follow and comply with all applicable codes and ordinances, cut the plug off the electrical power cord, remove the door(s) and discard the shelving. This prevents misuse of the unit after its been scrapped.

### APPLIANCE INSTALLATION

### **WARNING**

### **Excessive Weight Hazard**

Use two or more persons to move and install appliances. Failure to do so may result in back or other injury.

### **Remove Packaging Materials**

#### **IMPORTANT:**

Do not remove any permanent instruction labels or the data label on your appliance.

- Remove tape and glue from your appliance before using.
- To remove any remaining tape or glue, rub the area briskly with your thumb. Tape or glue residue can also be easily removed by rubbing a small amount of liquid dish soap over the adhesive with your fingers. Wipe with warm water and dry with a soft cloth.
- Do not use sharp instruments, rubbing alcohol, flammable fluids, or abrasive cleaners to remove tape or glue.

  These products can damage the surface of your appliance.

### **NOTICE:**

LOSS OR SPOILAGE OF PRODUCTS IN YOUR APPLIANCE IS NOT COVERED BY WARRANTY. IN ADDITION TO FOLLOWING RECOMMENDED INSTALLATION PROCEDURES AFTER ITS BEEN SET IN PLACE, DON'T RUN THE APPLIANCE 24 HOURS TO LET OIL IN THE REFRIGERANT LINE TO RE-EQUILIBRATE. (DON'T LOAD WITH PRODUCT UNTIL THE UNIT TEMPERATURE HAS REACHED ITS SET POINT.)

### **Location Requirements**

- Appliances represented in this manual are intended for indoor use only.
- Be sure the location chosen has a floor strong enough to support the total weight of the cabinet and contents as a fully loaded unit can weigh as much as 1500 pounds.
- Reinforce the floor as necessary to provide for maximum loading.
- · For the most efficient refrigeration, be sure to provide good air circulation inside and out.

### **Inside cabinet:**

Do not pack the units so full that air cannot circulate. The refrigerated air is discharged at the top rear of the unit. It is important to allow for proper air flow from the top rear to the bottom of the unit. Obstructions to this air flow can cause evaporator coil freeze ups and loss of temperature or overflow of water from the evaporator drain pan. The shelves have a rear turn up on them to prevent this. However, bags and other items can still be located to the far rear of the cabinet. Air is brought into the evaporator coil with fans mounted to the front of the coil.

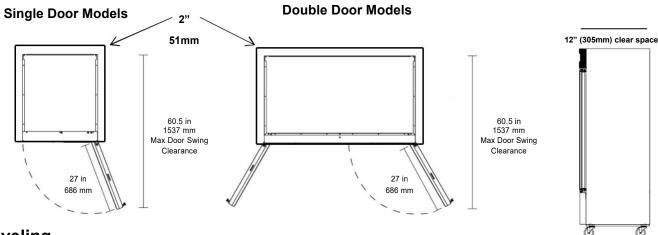
### **Outside cabinet:**

Be sure that the unit has access to ample air. Avoid hot corners and locations near stoves and ovens.

It is recommended that the unit be installed no closer than 2" (51mm) from any wall, a max door swing clearance of 60.5 in. (1537mm) and with at least a 12" (305mm) of clear space above the unit. Adequate air flow (≤86° F) into the utility compartment is needed to deliver proper performance and extend the appliance life.

# **APPLIANCE INSTALLATION (cont.)**

### Installation Clearance



## Leveling

Ensure the floor where the unit is to be located is level. (It is ok to slope down from front to rear by up to 1/4" – it mustn't slope from the rear to the front.

### **Stabilizing**

All models are supplied with casters for your convenience. It is very important, however, that the cabinet be installed in a stable condition with the front wheels locked while in use. Should it become necessary to lay the unit on its side or back for any reason, allow at least 24 hours before start-up to allow compressor oil to flow back into place. Failure to meet this requirement can cause compressor failure and unit damage which isn't covered by the appliance warranty.

# Reversing The Door (Single Door Models Only)

Single door models can be converted from right-hand hinged to left-hand hinged and vice-versa by removing the door hinges from both the door and unit, reversing their locations and reattaching them, and re-hanging the door upside-down.

#### **NOTICE:**

Unit repairs will not be subject to standard unit warranties if due to improper installation procedures or utilizing an unqualified installer technician to commission the unit.

#### **Electrical Connection**

Refer to the amperage data on the Technical Information table, the serial tag, your local code or the National Electrical Code to be sure that unit is connected to the proper power source.



#### DANGER

The unit must be turned OFF and disconnected from the power source whenever performing service, maintenance functions or cleaning the refrigerated area. Failure to comply may result in Death or Severe Personnel Injury.

### **OPERATION**

### Refrigerated cycle

**Refrigerators:** During the refrigeration cycle, the evaporator fans will run continuously when doors are closed, and the evaporator fans will stop when one or more doors are open. The door switch will activate the lights when opened on solid door models only. Glass door models lights are turned on manually using a switch located next to the main power switch.

- Every 4 hours, the unit will turn off and to allow the evaporator coil to defrost by compressor stop working. The controller now displays defrost symbol. When the coil temperature reaches 46°F (8°C) or after 90 minutes of defrost, the unit will turn on again.
- Anti-condensation heaters on door frames work in conjunction with the compressor.
- Recommended holding temperature range: 34° to 41°F (1° to 5°C).
- Comes factory set to 36°F (2°C).

**Freezers:**During the refrigeration cycle, the evaporator fans will run continuously when doors are closed, and the evaporator fans will stop when one or more doors are open. Fans will be cycle off during a defrost period. The door switch will activate the lights when opened.

- Every 4 hours, the unit will turn off and electric heater will turn on to defrost. The controller now displays the defrost symbol. When the coil temperature reaches 54°F (12°C) or after 35 minutes of defrost, and after the drip time delay of 5minutes, the unit will turn on again.
- 2. Anti-condensation heaters on door frames are always working.
- 3. Recommended holding temperature range: -10° to 10°F (-23° to -12°C).
- Comes factory set to -6°F (-21°C).

#### **Power Switch:**

The power switch is located on the front of the bottom panel. When the unit is on, the switch will glow green.

### THERMOSTAT DESCRIPTIONS

Please refer to the additional pages "Digital controller installing and operating instructions".

# TIPS FOR PROPER OPERATION, CLEANING AND MAINTENANCE

- 1. The unit should be cleaned daily as well as being tested for the proper holding temperature by measuring the content temperature and comparing it to the temperature displayed on the controller. They should be within 3°F of each other.
- When cleaning the exterior surface always use a soft cloth or microfiber towel. If a stiff bristle brush, scouring pad or scraper is used, the protective chromium oxide barrier will be penetrated allowing the appliance to show signs of rust.
- 3. When cleaning the interior or exterior of the appliance always use a mild detergent solution or warm soapy water. This won't harm the plastic or metallic substances and will remove most residual surface dust and grime. If a more aggressive cleaning is needed use a 3M Scotch Brite General Purpose Synthetic Fiber Green Scouring Pad and a solution of Dawn and warm water or a stainless steel cleaner/polishing product.
- 4. Ensure your gaskets are making a good compression seal and aren't torn or damaged as air entering the unit can increase the appliance's refrigeration system energy usage. In extreme cases, the temperature could fall out of range. When changing a gasket, it is recommended that a dab of gasket adhesive be applied every 10 to 12 inches to help hold the gasket in position. This escaping air may cause surface condensation.
- 5. Do not pack the unit so full that air cannot circulate. The refrigerated air is discharged at the bottom rear of the unit. It is important to allow for proper air flow from the top rear to the bottom of the unit.
- 6. Minimize the number of times the appliance door needs to be opened, as frequent access may preclude the unit's ability to maintain the proper temperature.
- 7. Use shelving with rear and side turn up rails to ensure proper air circulation is maintained as this is needed for effective, efficient temperature regulation.
- 8. Never use an infrared thermometer to monitor the unit's contents bulk temperature as they aren't accurate for this application. Use a NIST capable instrument with the right prove and calibrate the thermometer at least 3 times a year using an ice bath. Digital pocket thermometers may be off by as much as 1.8°F when measuring refrigerated products.

- 9. For best performance the ambient conditions should be less than 90°F with a relative humidity below 65%.
- 10. Ensure the automatic defrost cycle is set to keep the evaporator fan coil free of ice with proper air flow or the unit won't maintain the right temperature. The set point for a appliance should be between 35° and 40°F to preserve the shelf life and freshness of your stored products without needing to worry about a frozen evaporator.
- 11. Periodically inspect the displayed appliance temperature and measured steady state product temperature with a calibrated high-quality digital thermometer. The two readings should agree within 4° F and be below the recommended product holding temperature established by your operating procedures as well as the model food code.
- 12. The cooling fins are subject to clogging with grease, dust and other particulates even if an air filter is in place. The cooling fins should be cleaned using a commercial vacuum and if necessary, a degreaser at least 3 times a year. Do not use a wire or stiff bristle brush to avoid fin damage.
- 13. Any refrigeration system will generate condensate by cooling the air as it circulates through the appliance. At least twice a year, the drain line or condensate evaporator, tested to ensure the generated condensate is being adequality dealt with, and thoroughly cleaned/descaled so the condensate is always properly evacuated from the appliance.
- 14. The refrigeration system comes with a controller or thermostat to regulate the cold compartment temperature. New digital controllers have a differential setting that establishes when the refrigeration system cuts in and out around the selected set point. A 3° or 4°F differential is recommended for most applications to deliver tight temperature regulation without short cycling the compressor.
- 15. Only load the unit with pre-cooled product at temperature, warm product can result in undesired consequences.
- 16. Jerking on the door to reopen it immediately after it's been closed (before the internal and external pressures are again equal) will damage the gasket necessitating its replacement and possibly result in higher holding temperatures for the appliance due to the continual ingress of warm air.

### **CLEANING AND MAINTENANCE**



### DANGER

The unit must be turned off and disconnected from the power source whenever performing service, maintenance functions or cleaning the refrigerated area. Failure to comply may result in death or severe personnel injury.

#### **NOTE**

Ongoing appropriate preventative & repair maintenance along with cleaning the unit will preserve its performance, deliver high quality fresher product and extend the appliance life.

### **Exterior and Interior Cleaning of Appliances**

Clean using soap and warm water. If this isn't sufficient, try ammonia or a degreasing detergent (like Dawn) and water or a nonabrasive multi-surface liquid cleaner (like Formula 409). When cleaning the exterior, always rub with the "grain" of the stainless steel to avoid marring the finish.

• Do not use an abrasive cleaner because it will scratch the stainless steel and plastic and can damage the breaker strips and gaskets.

## **Cleaning the Condenser Coil**

Regular cleaning is recommended every 90 days. In some instances, you may find that there is a large amount of debris and dust or grease accumulated prior to the 90 day time frame. In these cases the condenser coil should be cleaned every 30 days.

If the buildup on the coil consists of only light dust and debris, the condenser coil can be cleaned with a simple brush. Heavier dust build-up may require a vacuum or even compressed air to blow through the condenser coil.

If heavy grease is present, there are de-greasing agents available for refrigeration use and specifically for the condenser coils. The condenser coil may require cleaning with the de-greasing agent and then blown clear with compressed air or CO<sub>2</sub>.

Failure to maintain a clean condenser coil can initially cause high temperatures and excessive run times. Continuous operation with dirty or clogged condenser coils can result in compressor failures. Neglecting the condenser coil cleaning procedures will void any warranties associated with the compressor or cost to replace the compressor.

- · For efficient operation, keep the condenser surface free of dust, dirt, and lint.
- We recommend cleaning the condenser coil at least once per quarter more in a greasy/dust environment.
- Clean the condenser with a commercial condenser coil cleaner and a soft brush, available from any commercial refrigeration equipment retailer, or vacuuming the condenser with a shop vac or use CO<sub>2</sub>.



### CAUTION

Never use a high pressure water wash for this cleaning procedure as water can damage the electrical components located near or at the condenser coil.

In order to maintain proper refrigeration performance, the condenser fins must be clear of dust, dirt and grease regularly. It is recommended that this be done at least every three to 4 months. If conditions are such that the condenser is totally or significantly blocked in three months, the frequency of cleaning should be increased. Clean the condenser with a vacuum cleaner or stiff brush. If extremely dirty, a commercial-grade condenser cleaner may be required.

# **CLEANING AND MAINTENANCE (cont.)**

# Stainless Steel Care and Cleaning

To prevent rust or discoloration on stainless steel several important steps need to be taken. First, one must understand the properties of stainless steel. Stainless steel contains 70-80% iron which will rust. It also contains 12-30% chromium which forms an invisible passive film over the steels surface which acts as a shield against corrosion. As long as the protective layer is intact, the metal is still stainless. If the film is broken or contaminated, outside elements can begin to breakdown the steel and begin to form rust or discoloration. Treating a surface showing rust with CitriSurf 2310 will help restore the protective chromium oxide layer as well as removing most of the surface rust when done as soon as any oxidation is noticed. At least every 6 weeks the stainless steel surfaces should be cleaned and treated with a cleaner/polish product like these stainless steel cleaner and polish offerings such as what Weiman, 3M 14 oz, Magic and Therapy products. Use of "hard water" with minerals like iron in it must be dealt with immediately (wipe dry) or the surface may tend to rust Treating the water to soften it is suggested.



### CAUTION

Proper cleaning of stainless steel requires soft cloths or plastic scouring pads, never use steel pads, wire brushes or scrapers! Use a 3M pad or a soft cloth – non-woven fabric works well.

Cleaning solutions need to be alkaline based or non-chloride based. Any cleaner containing chlorides will damage the protective film of the stainless steel. If cleaners containing chlorides are used, be sure to rinse and dry thoroughly (similar to the use of hard water). Routine cleaning of stainless steel can be done with soap and water. Extreme stains or grease should be cleaned with a non-abrasive cleaner and plastic scrub pad. It is always good to rub with the grain of the steel. There are also stainless steel cleaners available which can restore and preserve the finish of the steel's protective layer.

Early signs of stainless steel breakdown can consist of small pits and cracks. If this has begun, clean thoroughly and start to apply stainless steel cleaners in attempt to restore the passivity of the steel.



### CAUTION

Never use an acid based cleaning solution! Many food products have an acidic content which can deteriorate the finish. Be sure to clean the stainless steel surfaces of all food products.

#### Gasket Maintenance

Gaskets require regular cleaning to prevent mold and mildew build up and also to keep the elasticity of the gasket. Gasket cleaning can be done with the use of warm soapy water. Avoid full strength cleaning products on gaskets. Do not use sharp tools or knives to scrape or clean the gasket.

Gaskets can easily be replaced and don't require the use of tools or authorized service technicians. The gaskets are "Dart" style and can be pulled out of the grove in the door and replaced by pressing the new one back into place. Do not run the unit long after noticing the gasket is torn or not sealing – immediately schedule replacing it. Over time gaskets will wear, as such they and other wear parts are not covered by the appliance warranty.

### **Doors/Hinges**

If the door is beginning to sag, tighten the screws that mount the hinge brackets to the frame of the unit. If the doors are loose or sagging, this can cause the hinge to pull out of the frame which may damage both doors and door hinges. (It may be necessary to insert some form of reinforcement if an old door & hinge set becomes loose so it can be tightened without stripping out of the body).

# TROUBLESHOOTING GUIDE

### **BEFORE CALLING FOR SERVICE**

If the unit appears to be malfunctioning, read through the OPERATION section of this manual first. If the problem persists, see Troubleshooting chart below. The problem may be something very simple that can be solved without a service call. Always see if this chart describes the problem, identifies the cause and offers a remedy.

# TROUBLESHOOTING CHART

Fault	Probable Cause	Action	
The evaporator is iced over	The unit is exposed to excessive moisture or the auto defrost cycle is set incorrectly	Run the manual defrost cycle or unplug the unit and open the door	
There is a loud noise	The floor is too weak or the unit is not level  The back of the unit is too close to the wall  The tray is not in the correct position  The fan blade may be obstructed or unbalanced	Check the installation confirming the unit is level and adjust the tray position  Clear the fan blade obstruction or replace the fan	
Compressor is Not Running	Fuse blown or circuit breaker tripped	Replace the fair  Replace fuse or reset circuit  breaker. If replacement of fuse or reset of circuit breaker doesn't  correct the problem contact a  qualified service technician.	
	Power cord unplugged	Plug in power cord and check that the relevant breaker isn't tripped	
	Thermostat set too high	Set thermostat to lower temperature	
	A ground fault protector has tripped	Reset or eliminate the GFI breaker or receptacle	
	Thermostat is set too high	Set thermostat to lower temperature.	
Cabinet Temperature is too Warm	Airflow is blocked	Re-arrange products to allow for proper air flow. Make sure there is at least four inches of clearance from the fan	
	Low refrigerant levels	Contact a qualified service technician to check refrigerant levels	
	Door is slightly ajar	Make sure door is completely closed.	

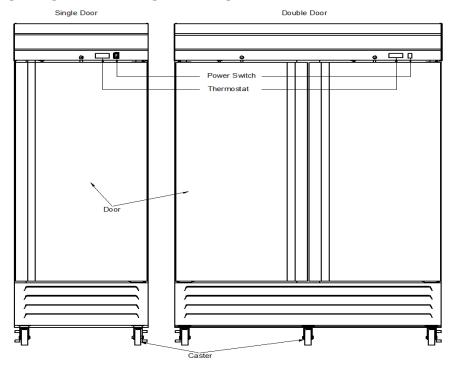
# **TROUBLESHOOTING (cont.)**

Fault	Probable Cause	Action	
Water is pooling up on the	The condensate pan isn't keeping up and is overflowing	Check the hot gas line temperature Add an additional powered condensate evaporator pan to accommodate the overflow	
floor near the appliance	If connected to a floor drain the setup has become misaligned and/or the drain line may be clogged	Reposition the drain line so it flows into the floor drain  Clear the drain line	
	Poor switch connection	Turn off light switch and turn it back on.	
Interior Light in Not Working	Light is not connected	Make sure the light is correctly inserted in the socket.	
Interior Light is Not Working	Light has burned out	Replace the light. If replacement of light doesn't correct the problem contact a qualified service technician.	
Condensation is Collecting	Gasket is not sealing properly	Clean, repair, or replace the gasket as necessary	
on the cabinet and/or floor	High humidity / moisture in the air is causing dew drops	Wipe with a dry cloth	
Gasket is tearing or being pulled out of it's slot	Opening door immediately soon after it has been closed	Don't jerk on the door and allow enough time for the internal pressures to equalize.	
	The door is bent	A replacement door may be necessary	
The door does not close tightly	The door gasket has come out The unit is not level	Reposition or replace the gasket Level the unit again Tighten the door hinge and ensure	
	Hinge has loosened	it is secure	

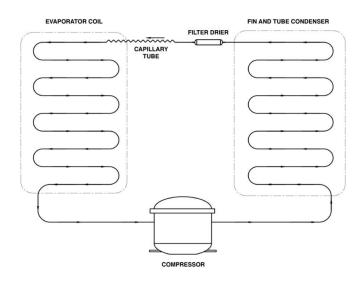
# **DIMENSIONS AND TECHNICAL INFORMATION**

Model	Product Dimension	Volume	Temperature Range
MVR-23FDHC	27.2*34*78.8in/690*864*2056mm	19.1cuft/542L	<b>34-41</b> °F/ <b>1-5</b> °C
MVF-23FDHC	27.2*34*78.8in/690*864*2056mm	19.1cuft/542L	-10°-10℉/-23~-12℃
MVR-23GDHC	27.2*35.2*78.8in/690*894*2056mm	19.1cuft/542L	<b>34-41</b> °F/ <b>1-5</b> °C
MVR-49FDHC	54.2*34*78.8in/1376*864*2056mm	42.1cuft/1191L	<b>34-41</b> °F/ <b>1-5</b> °C
MVF-49FDHC	54.2*34*78.8in/1376*864*2056mm	42.1cuft/1191L	-10°-10℉/-23~-12℃
MVR-49GDHC	54.2*35.2*78.8in/1376*894*2056mm	42.1cuft/1191L	<b>34-41</b> °F/ <b>1-5</b> °C
MVR-72FDHC	54.2*34*78.8in/1376*864*2056mm	65cuft/1841L	<b>34-41</b> °F/ <b>1-5</b> °C
MVF-72FDHC	54.2*34*78.8in/1376*864*2056mm	65cuft/1841L	-10°-10°F/-23~-12℃
MVR-72GDHC	54.2*35.2*78.8in/1376*894*2056mm	65cuft/1841L	<b>34-41</b> °F/ <b>1-5</b> °C

# **COMPONENT INFORMATION**



# **REFRIGERATION DIAGRAM**





# WARRANTY

#### LIMITED WARRANTY COVERAGE

The Legacy Companies for its MAXX COLD V-SERIES, products warrants to the original purchaser the products to be free from defects in materials and workmanship for the following time periods: \*(conditions and restrictions apply)

#### **MAXX COLD V-SERIES STANDARD WARRANTY**

- Six (6) months Parts & on-site Labor
- One (1) year Compressor Warranty (Parts only)

#### **WARRANTY EXCLUSIONS**

#### **NO CONSEQUENTIAL DAMAGES:**

The Legacy Companies is not responsible for any direct economic loss or special, indirect or consequential damages including without limitation; loss of revenue and loss or damage arising from food or other product spoilage claims.

#### **WARRANTY IS NOT TRANSFERABLE:**

This warranty is not transferable or assignable and applies only to the original

#### NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR SERVICE:

There are no other warranties statutory, express, or implied. This Limited Warranty is the exclusive warranty and made in lieu of all other warranties including any implied warranties or any warranties of merchantability or fitness for a particular purpose.

#### **IMPROPER ELECTRICAL CONNECTIONS:**

The Legacy Companies is not responsible for the repair or replacement of any failed or damaged components resulting from electrical power failure, the use of extension cords, low voltage or voltage spikes to the unit.

#### **IMPROPER USAGE:**

The Legacy Companies assumes no liability for parts or labor coverage for component failure or other damages resulting from improper usage or installation or failure to clean and/or maintain the product as set forth in the Owner's Manual provided with each unit.

#### **CONSUMABLES:**

This warranty does not include and is not limited to items such as; legs, feet, plastic components, splash shield, or gaskets. Visit our website for a complete listing.

#### **ADJUSTMENTS & CALIBRATIONS:**

Adjustments including calibrations, leveling, tightening of fasteners, or utility connections normally associated with the original installation are the responsibility of the dealer, installer or the end user and not the responsibility of The Legacy Companies and will not be considered warranty issues.

#### **CONSEQUENTIAL DAMAGES:**

This warranty does not cover any defect due to, or resulting from, ordinary wear and tear, handling, abuse, misuse, or harsh chemical action, nor shall it extend to any product from which the serial number has been removed or altered, or modifications made by unauthorized service personnel or damage by flood, fire, earthquake or other Acts of God.

#### **OUTSIDE U.S. & CANADA:**

This warranty does not apply to, and The Legacy Companies is not responsible for any warranty claims made on products sold or used outside of the United States and Canada or any territories of the United States of America.

#### ALL REPAIRS AND SERVICE MUST BE MADE BY A MAXX COLD V-SERIES AUTHORIZED TECHNICIAN.