

# HUSSMANN®



## **GSVM** *Medium Temperature Self Contained Open Vertical Merchandisers*



## **Installation & Service Manual**

**IMPORTANT**  
Keep in store for future reference!

P/N 0515275\_F

July 2013



# ATTENTION

Merchandiser must operate for 24 hours  
before loading product!

Regularly check merchandiser temperatures.

Do not break the cold chain. Keep products  
in cooler before loading into merchandiser.

These merchandisers are designed  
for pre-chilled products only.



IMPORTANT  
KEEP IN STORE FOR FUTURE REFERENCE  
*Quality that sets industry standards!*

**HUSSMANN**® 12999 St. Charles Rock Road • Bridgeton, MO 63044-2483  
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# TABLE OF CONTENTS

**ANSI DEFINITIONS** ..... vi

## **INSTALLATION**

Certification ..... 1-1  
Husmann Product Control ..... 1-1  
Shipping Damage ..... 1-1  
Location ..... 1-1  
Self Contained Location ..... 1-2  
Model Description ..... 1-3  
Unloading ..... 1-3  
Exterior Loading ..... 1-3  
Shipping Skid ..... 1-3  
Merchandiser Leveling ..... 1-4  
Optional Legs ..... 1-4  
Serial Plate Location ..... 1-4  
Refrigeration Unit Access ..... 1-4  
Sealing Merchandiser to Floor ..... 1-4  
Night Curtain Installation ..... 1-5

## **ELECTRICAL / REFRIGERATION**

Merchandiser Electrical Data ..... 2-1  
Field Wiring ..... 2-1  
Power Switch ..... 2-1  
Electrical Connections ..... 2-1  
Electrical Outlet ..... 2-1  
Refrigeration (Self Contained) ..... 2-2  
Waste Outlet and Water Seal ..... 2-2  
Safe-NET III Controller ..... 2-3  
Safe-NET Display ..... 2-4  
Safe-NET Start-Up ..... 2-4  
Sequence of Operation ..... 2-5  
Alarms and Codes ..... 2-6  
Defrost Termination Switch ..... 2-6  
Temperature Adjustment ..... 2-7

## **START UP / OPERATION**

Start-Up ..... 3-1  
TEV Adjustment ..... 3-1  
Controls and Adjustments ..... 3-2  
Load Limits ..... 3-3  
Stocking ..... 3-3  
Solar Thermometer ..... 3-3  
Shelf Weight Limits ..... 3-4

## **MAINTENANCE**

Care and Cleaning ..... 4-1  
Do NOT Use: ..... 4-1  
Do: ..... 4-1  
Removing Scratches from Bumper ..... 4-2  
Cleaning Discharge Honeycomb ..... 4-2  
Cleaning Under Display Pan ..... 4-3  
Cleaning Evaporation Pan ..... 4-3  
Cleaning Coils ..... 4-4  
Removing Scratches from Bumper ..... 4-4

## **SERVICE**

Replacing Fan Motors and Blades ..... 5-1  
Replacing Fluorescent Lamps ..... 5-2  
Repairing Aluminum Coil ..... 5-2  
Troubleshooting Guide ..... 5-3  
GSVM Accessories ..... 5-4  
Definitions ..... 5-5

## **APPENDIX**

Part Numbers ..... A-1  
Plan View ..... A-2  
Cross Sections and Refrigeration Data .. A-3  
Electrical Data ..... A-4  
Shipping Weights and Amps ..... A-5  
Wiring Diagram GSVM-4060 ..... A-6  
Wiring Diagram GSVM-4072 ..... A-7  
Wiring Diagram GSVM-5272 ..... A-8

## **WARRANTY**

**REVISION HISTORY**

**REVISION F — JULY 2013**

- 1. Included Night Curtain Instructions, Page 1-5 and 1-6
- 2. Added Night Curtain Description, Page 5-5

**REVISION E — FEBRUARY 2012**

- 1. Revised Nema Plug, Page 2-1

**REVISION D — JANUARY 2012**

- 1. Revised for Wind Chill

**REVISION C — JANUARY 2012**

- 1. Removed Remote Models
- 2. Added Safe-NET III
- 3. Revised Wiring Diagrams

**REVISION B — DECEMBER 2010**

- 1. Added option condensate pan for GSVM 4072 and 5272; Page, 2-2
- 2. Replaced Bulb illustration; Page 5-2
- 3. Updated wiring diagram; Page A-11

**ORIGINAL ISSUE — NOVEMBER 2010**

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**ANSI Z535.5 DEFINITIONS**



• **DANGER** – Indicate[s] a hazardous situation which, if not avoided, will result in death or serious injury.



• **WARNING** – Indicate[s] a hazardous situation which, if not avoided, could result in death or serious injury.



• **CAUTION** – Indicate[s] a hazardous situation which, if not avoided, could result in minor or moderate injury.

• **NOTICE** – *Not related to personal injury* – Indicates[s] situations, which if not avoided, could result in damage to equipment.

## INSTALLATION

### CERTIFICATION

These merchandisers are manufactured to meet ANSI / National Sanitation Foundation (NSF®) Standard #7 requirements. Proper installation is required to maintain certification. Near the serial plate, each case carries a label identifying the type of application for which the case was certified.

**ANSI/NSF-7 Type I - Display Refrigerator / Freezer**

**Intended for 75°F / 55% RH Ambient Application**

**ANSI/NSF-7 Type II - Display Refrigerator / Freezer**

**Intended for 80°F / 55% RH Ambient Application**

**ANSI/NSF-7 - Display Refrigerator**

**Intended for Bulk Produce**

### HUSSMANN PRODUCT CONTROL

The serial number and shipping date of all equipment is recorded in Hussmann's files for warranty and replacement part purposes. All correspondence pertaining to warranty or parts ordering must include the serial number of each piece of equipment involved. This is to ensure the customer is provided with the correct parts.

### SHIPPING DAMAGE

All equipment should be thoroughly examined for shipping damage before and during unloading. This equipment has been carefully inspected at our factory. Any claim for loss or damage must be made to the carrier. The carrier will provide any necessary inspection reports and/or claim forms.

### Apparent Loss or Damage

If there is an obvious loss or damage, it must be noted on the freight bill or express receipt and signed by the carrier's agent; otherwise, carrier may refuse claim.

### Concealed Loss or Damage

When loss or damage is not apparent until after equipment is uncrated, retain all packing materials and submit a written response to the carrier for inspection within 15 days.

### LOCATION

These merchandisers are designed for displaying products in air conditioned stores where temperature is maintained at or below the ANSI / NSF-7 specified level and relative humidity is maintained at or below 55%.

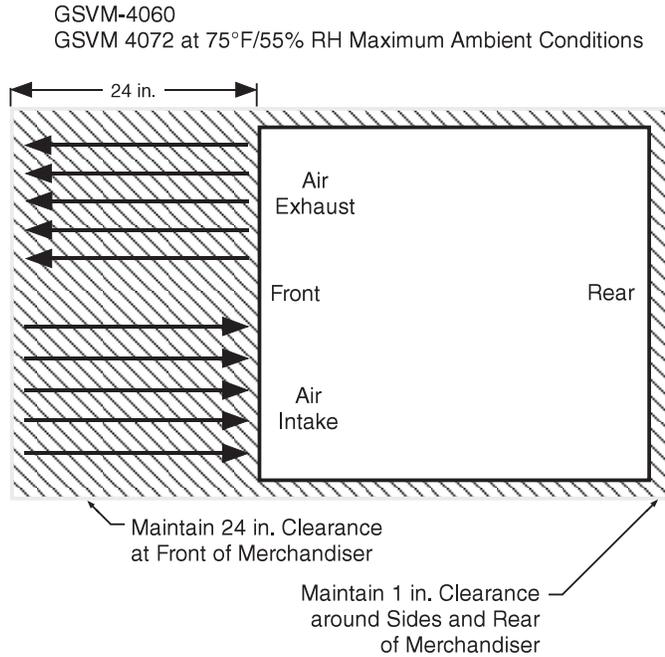
<p><b>Recommended operating ambient temperature is between 65°F (18°C) to 80°F (26.6°C). Maximum relative humidity is 55%.</b></p>
--

Placing refrigerated merchandisers in direct sunlight, near hot tables or near other heat sources could impair their efficiency. Like other merchandisers, these merchandisers are sensitive to air disturbances. Air currents passing around merchandisers will seriously impair their operation. Do NOT allow air conditioning, electric fans, open doors or windows, etc. to create air currents around the merchandiser.

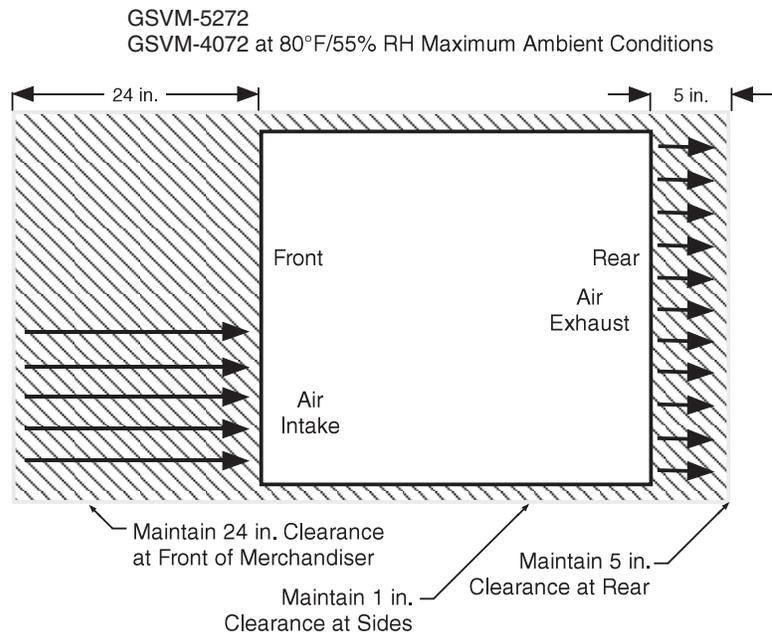
**1-2            INSTALLATION**

**SELF CONTAINED (LOCATION)**

**GSVM-4060 and GSVM-4072** (at 75°F/55% relative humidity, maximum ambient conditions) has front condenser air intake and discharge. Maintain a minimum clearance distance of two feet in front of the merchandiser so that air discharge and air intake is not obstructed.



**GSVM-4072** (at 80°F/55% relative humidity, maximum ambient conditions) and **GSVM-5272** each require a 5 inch minimum clearance behind the merchandiser and clearance above the merchandiser since its air flows straight through the condensing unit compartment. Brackets are provided for field attachment to obtain this rear 5 inch minimum clearance.



## MODEL DESCRIPTION

The GSVM open vertical merchandiser offers versatility in the display of medium temperature (32° F to 41° F) products such as dairy products, prepared salads, pizza and fresh entrees that are pre-chilled in a cooler. Carefully read and follow the instructions prior operating the merchandiser.

## UNLOADING

### Unloading from Trailer:

Lever Bar (also known as a Mule, Johnson Bar, J-bar, Lever Dolly, or Pry Lever)

Move the merchandiser as close as possible to its permanent location and remove all packaging. Check for damage before discarding packaging. Remove all separately packed accessories such as kits and shelves.



## CAUTION

Do not walk or put heavy objects on case.

Improper handling may cause damage to the merchandiser when unloading. To avoid damage:

1. Do not drag the merchandiser out of the trailer. Use a Johnson bar (mule).
2. Use a forklift or dolly to remove the merchandiser from the trailer.

## EXTERIOR LOADING

**Do NOT walk on top of merchandisers** or damage to the merchandisers and serious personal injury could occur.

MERCHANDISERS ARE NOT STRUCTURALLY DESIGNED TO SUPPORT EXTERNAL LOADING such as the weight of a person. Do not place heavy objects on the merchandiser.

## SHIPPING SKID

Each merchandiser is shipped on a skid to protect the merchandiser's base, and to make positioning the case easier.

Do not remove the shipping skid until the merchandiser is near its final location. The skid provides protection for both the merchandiser and the floor.

Remove the skid by raising one end of the merchandiser approximately 6 inches. Block the merchandiser securely, and remove the two skid bolts from the raised end. Replace the bolts with (provided) leg levelers. Repeat this procedure at opposing end. Once the leg levelers are secured in place, the merchandiser may be slid off the skid and placed in its final location.

**DO NOT TILT MERCHANDISER ON ITS SIDE OR END WHEN REMOVING SKID.**

Once the skid is removed, the merchandiser must be lifted —NOT PUSHED— to reposition.

Check floor where merchandisers are to be set to see if it is a level area. Determine the highest part of the floor.



## WARNING

**Do NOT remove shipping crate until the merchandiser is positioned for installation.**

# 1-4 INSTALLATION

## MERCHANDISER LEVELING

BE SURE TO POSITION MERCHANDISERS PROPERLY. Level the merchandiser by all four corners. Merchandiser(s) must be installed level to ensure proper operation of the refrigeration system, and to ensure proper drainage of defrost water.

## OPTIONAL LEGS

NSF® approved legs replace the leg levelers if required by local health codes. The legs raise the case 6 inches for cleaning purposes. An optional skirt kit can be provided to snap on the legs.

## SERIAL PLATE LOCATION

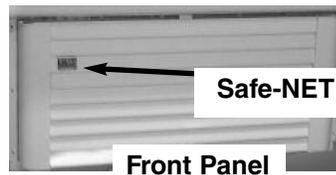
The serial plate is located on the interior top, left side of the merchandiser. It contains all pertinent information such as model, serial number, amperage rating, refrigerant type and charge. This information will be needed to install, service or order parts for the merchandiser.



## REFRIGERATION UNIT ACCESS

The lower front panel may be removed by removing screw at bottom and lifting the panel straight upward and over the tabs on which it is hanging. The panel is installed by reversing the above procedure.

Ensure lower front panel is flat against the floor when installed to prevent air circulation problems for self contained merchandisers.



Lift up and out to remove access panel



Safe-NET III display is mounted on left side of access panel. Be careful not to detach Safe-NET III cable from display when removing access panel.



Safe-NET III Display

## SEALING MERCHANDISER TO FLOOR

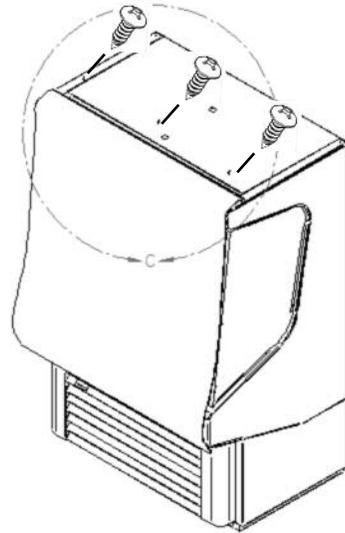
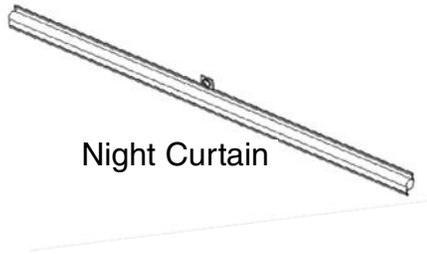
If required by local sanitary codes, or if the customer desires, merchandisers may be sealed to the floor using a vinyl cove base trim. The size needed will depend on how much variation there is in the floor, from one end of the merchandiser to the other. Sealing of the lower front and rear panels on self contained models may hamper their removal for servicing or maintenance of the condensing unit.

**NOTE:** Do not allow trim to cover any intake or discharge grilles located in the lower front panel.

### NIGHT CURTAIN INSTALLATION

Night curtains are used to cover the case opening after normal business hours. The curtains improve energy consumption, allowing the refrigeration system to work less.

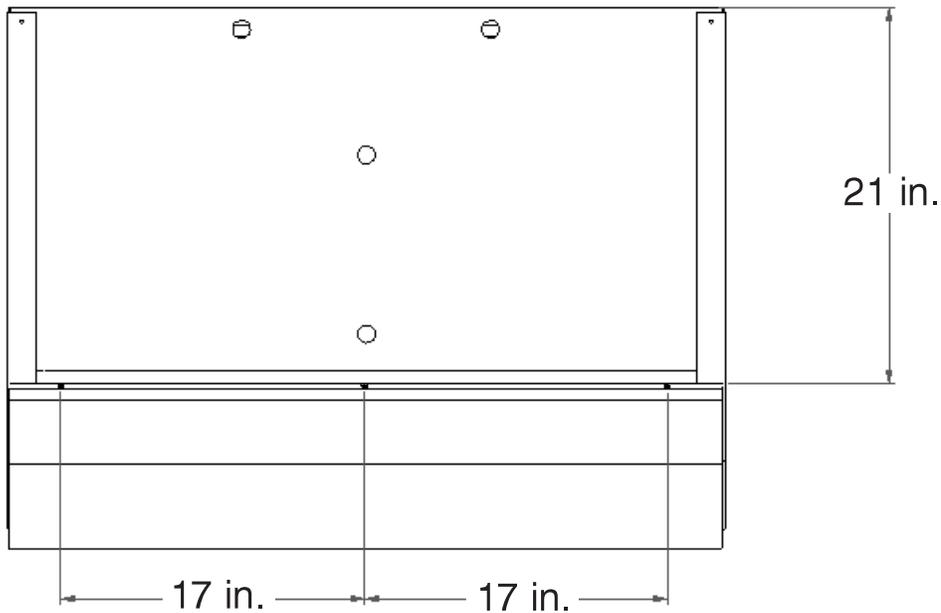
Fasten night curtain to top panel using (3) #8 x 1/2 in. screws.



Carefully inspect the night curtain kit to ensure there is no damage from breakage during shipping. Case should be positioned and leveled before installing the night curtain.

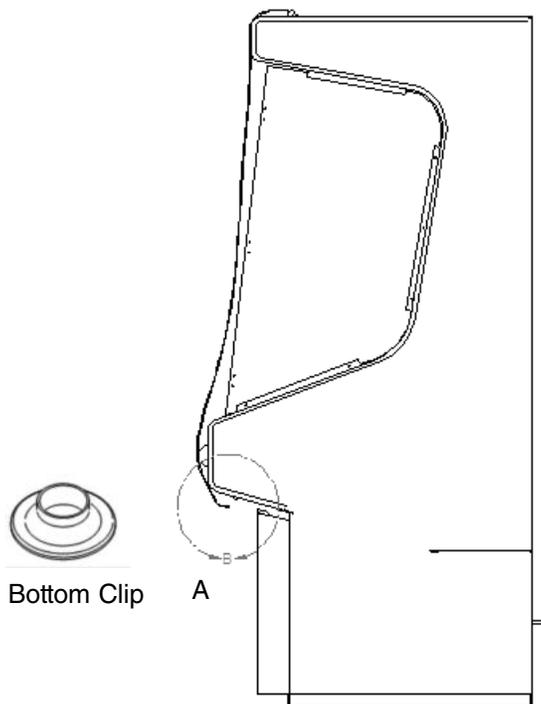
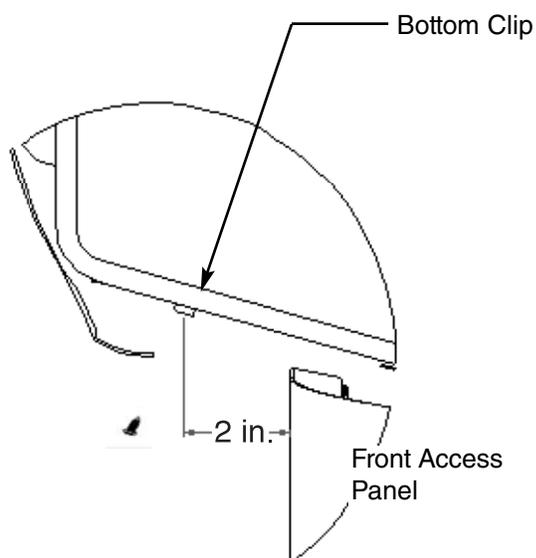
Position night curtain on top panel. Measure 21 inches to edge of the end night curtain. Center night curtain to length of case.

The night curtain for GSVM is standard for model 5272 and is an optional kit for models 4060 and 4072.



## 1-6 INSTALLATION

Secure bottom of night curtain using bottom clip as shown below. Clip is to be installed 2 in. in front access panel.



## ELECTRICAL / REFRIGERATION

### MERCHANDISER ELECTRICAL DATA

Refer to Appendix A of this manual or the merchandiser's serial plate for electrical information.

### FIELD WIRING

Field wiring must be sized for component amperes stamped on the serial plate. Actual ampere draw may be less than specified.

**ALWAYS CHECK THE SERIAL PLATE FOR COMPONENT AMPERES**

### ELECTRICAL CONNECTIONS

All wiring must be in compliance with NEC and local codes. All electrical connections *for GSVM-4072 and 5072 self-contained* are to be made in the electrical *Handy Box* located behind the removable base panel at the left end of the merchandiser when facing the discharge air honeycomb. GSVM-4060 is provided with a power cord.

### POWER SWITCH

The main electrical power switch is located behind the front louvered access panel. The power switch must be turned OFF before servicing the merchandiser.

## **⚠ WARNING**

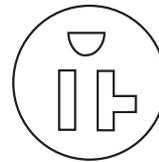
— **LOCK OUT / TAG OUT** —

***To avoid serious injury or death from electrical shock, always disconnect the electrical power at the main disconnect when servicing or replacing any electrical component. This includes, but is not limited to, such items as doors, lights, fans, heaters, and thermostats.***

### ELECTRICAL OUTLET:

Before the merchandiser is connected to any wall circuit, use a voltmeter to check that the outlet is at 100% of the rated voltage. The wall circuit must be dedicated for the merchandiser. Failure to do so voids the warranty. Do not use an extension cord. Never plug in more than one merchandiser per electrical circuit.

- Always use a dedicated circuit with the amperage stated on the unit.
- Plug into an outlet designed for the plug.
- Do not overload the circuit
- Do not use long or thin extension cords. Never use adapters.
- If in doubt, call an electrician.



NEMA 5-20R  
Receptacle  
GVSM-4060

GSVM-4060 has a factory-installed power cord that is attached at the electrical box.

## **⚠ WARNING**

**Risk of Electric Shock. If cord or plug becomes damaged, replace only with a cord and plug of the same type.**

## **⚠ WARNING**

**Merchandiser must be grounded. Do not remove the power supply cord ground.**

## REFRIGERATION (Self Contained Models)

Each self contained model is equipped with its own condensing unit and control panel located beneath the display area. The correct type of refrigerant will be stamped on each merchandiser's serial plate. The merchandiser refrigeration piping is leak tested. The unit is charged with refrigerant, and shipped from the factory with all service valves open.

GSVM models have a refrigeration system that uses a hermetic compressor. GSVM-4060 and GSVM-4072 systems use a capillary tube for refrigerant control. The capillary tube is soldered to the suction line pull-out coil for proper heat exchange. **If the capillary should become plugged or damaged, it is best to replace the heat exchanger.**

GSVM-5272 employs a bleed port type expansion valve for proper refrigerant control. Read the merchandiser's serial plate for the appropriate refrigerant type and weight.

## WATER OUTLET AND WATER SEAL

GSVM models 4072 and 5272 require a floor drain. The condensate water outlet is located in the center of the merchandiser. The outlet has a factory installed, external water seal.

For self contained models like GSVM-4060, this water seal drains into a high-humidity electric condensate pan located beneath the merchandiser. The pan uses a thermistor that senses water in the pan, adjusting the amount of heat required to evaporate the water. **Ensure the drain hose is properly trapped, and the drain area is not clogged.**

**NOTE:** All lower base panels must be in place when the refrigerator is operating. If not, airflow from the condenser will be directed over the evaporator pan and defrost water in the pan may overflow.

## OPTIONAL ELECTRIC CONDENSATE PAN

An optional high-humidity condensate pan kit requires a dedicated 15 Amp circuit - 120V (GSVM-4072 and GSVM-5272).

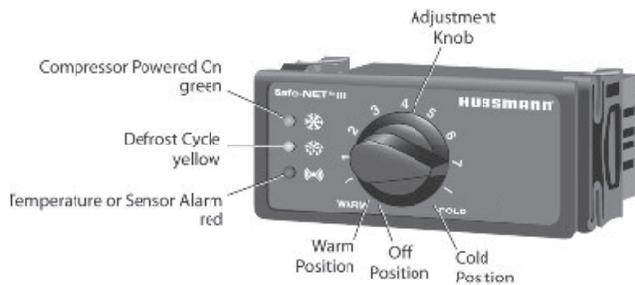
## Safe-III™ TEMPERATURE AND DEFROST CONTROLLER

### SAFE-NET III™ USER INSTRUCTIONS

Your refrigerated case uses a Hussmann Safe-NET™ III temperature and defrost controller to precisely maintain the temperature and prevent frost buildup on the cooling coil. LEDs indicate when the compressor or refrigeration is on, when the case is in a defrost cycle, if the temperature is outside the desired range, or if there is a sensor failure.

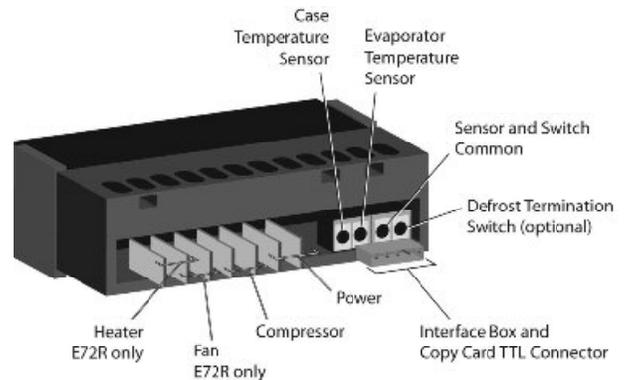
An adjustment knob allows the temperature to be set within the configured range and can power off the controller and compressor. Your controller has been custom-configured to provide the best temperature and defrost control for your chilled or frozen food.

The front of the controller has an adjustment knob and status LEDs. The back of the controller has connections for sensors and switched equipment.



The Safe-NET III controller includes the following features and connections.

- Adjustment knob:  
Adjusts the temperature setpoint.  
Turn adjustment knob to OFF to turn off refrigeration system. Unplug merchandiser from power before servicing the unit.



- Controller LEDs:
  - ❄️ Compressor Powered On LED (green):  
Lights while the compressor is running or the refrigeration valve is open.
  - ❄️ Defrost Cycle LED (yellow):  
Lights while the refrigeration coil is defrosting.
  - 🔊 Temperature or Sensor Alarm (red):  
Lights if the temperature is too warm or too cold. Flashes if a sensor fails.

- Rear connections:
  - Case temperature sensor:
    - Typically senses the temperature of the air in the case.  
Used by the controller to determine when to power on or power off the compressor or refrigeration.
  - Evaporator temperature sensor:
    - Senses the temperature of the refrigeration coil.  
Terminates a defrost cycle when refrigeration coil ice melts.
  - Compressor or refrigeration relay:
    - Switches on the compressor or refrigeration valve for cooling.
  - Defrost / reversing condenser switch
    - Switches on the defrost or reversing condenser fan motor - when used with the condenser fan motor option.

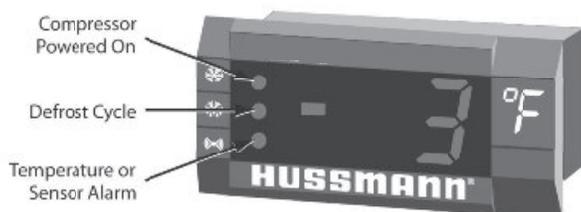
## ! WARNING

**The optional evaporator fan remains ON when the adjustment knob is in the OFF position.**

## DISPLAY

The display includes three red LEDs and two digits for temperature, defrost status, and error codes.

The three display LEDs are red, and their



## START-UP

## ! WARNING

**The OFF Position does not disconnect line voltage to the case, refrigeration unit, fan, or heater.**

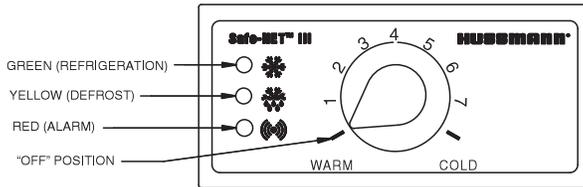
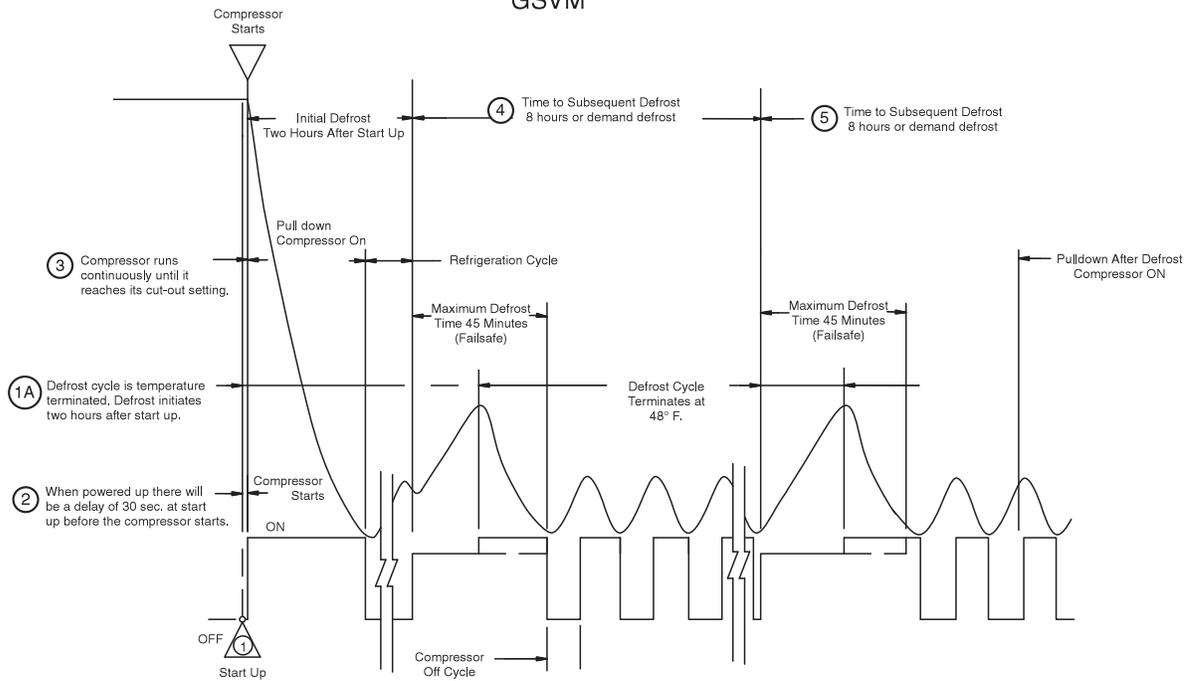
1. Plug in the merchandiser.
2. Wait for the self check to complete. During the self check, each LED flashes for one second, then all LEDs turn on for two seconds. If the LEDs do not flash, make sure the adjustment knob is not in the Off position.
  - After the self check, all LEDs turn off until the compressor starts. **There may be a delay before the compressor starts.** If the red Temperature or Sensor Alarm LED stays on after the self check.
  - The green Compressor Powered On LED turns on when the compressor starts.

**NOTE: Do NOT load product until AFTER merchandiser operates for 24 hours and reaches desired operating temperature.** behavior matches the LEDs on the controller.

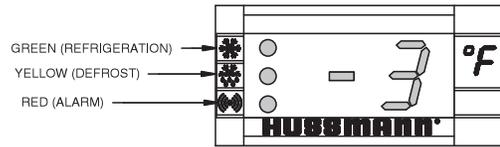
## ! WARNING

**Product will be degraded and may spoil if allowed to sit in a non-refrigerated area.**

SEQUENCE OF OPERATION  
GSVM



Safe-Net III Controller



DISPLAY

1. Apply power to the merchandiser. Wait for the self check to complete. During the self check, each LED flashes for one second and then all LEDs turn on for two seconds. If the LEDs do not flash, make sure the adjustment knob is not in the “OFF” position.
- 1A. The merchandiser temperature displays at startup. The initial defrost starts two hours later. The display will show the temperature at the start of defrost. This reading will remain displayed during defrost and until it times out, even though the refrigeration mode has been initiated. (The green LED will be lit.)
2. The compressor will start after a 1-minute delay once power is applied.
3. The compressor will continue to run until it reaches its cut-out temperature (Pulldown).
4. The refrigeration cycle will continue for the next subsequent scheduled (8-hours) or demand defrost. The digital display will display the temperature reading for 10 minutes after defrost.
5. The above process will repeat (steps 3 and 4) until the power is interrupted.
6. If power stops, the process will start over at step 1, and the time to subsequent defrost will reset.

ALARMS AND CODES

FLASHING TEMPERATURE OR SENSOR ALARM LED, E1 OR E2

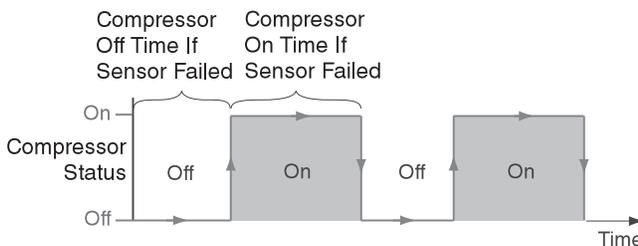
If the Temperature or Sensor Alarm LED (red) on the controller and display is flashing, a temperature sensor has failed. The display shows E1 if the case sensor has failed or E2 if the evaporator sensor has failed.

If the merchandiser sensor fails, refrigeration will run continuously. Turn off, or repeat a duty cycle of a few minutes on and a few minutes off.

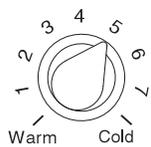


DEFROST TERMINATION SWITCH

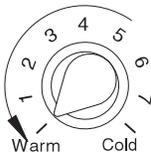
Merchandisers may use a defrost termination switch, instead of an evaporator sensor to terminate a defrost cycle. The defrost termination switch is temperature activated and senses the completion of defrost.



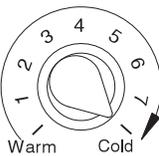
MANUAL DEFROST



1. Note location of knob setting



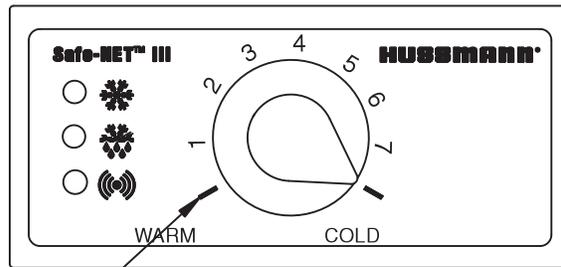
2. Rotate knob fully counterclockwise until it stops (full warm - "OFF" position)



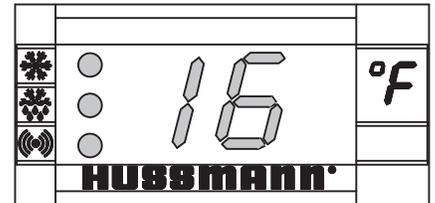
3. After 10 seconds, but before 20 seconds, rotate knob fully clockwise until it stops (full cold position)

Note:  
***This procedure initiates a manual or forced defrost.***

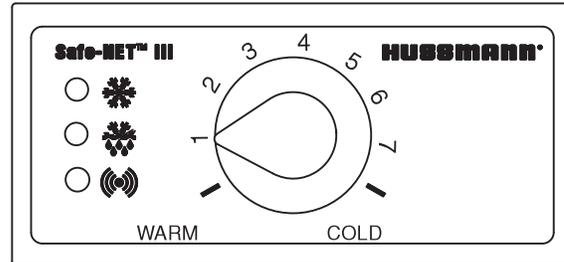
**IMPORTANT:** Return the control knob to its original setting (Step 1) once the manual defrost has been initiated.



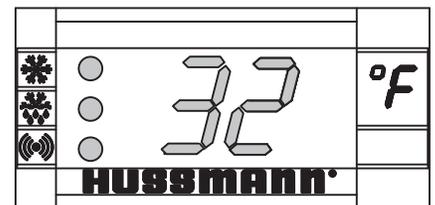
"OFF" Position — Safe-NET III Control Set at Full Cold Position



Display - at Full Cold Model GSVM



Safe-NET III Control # 1 Position

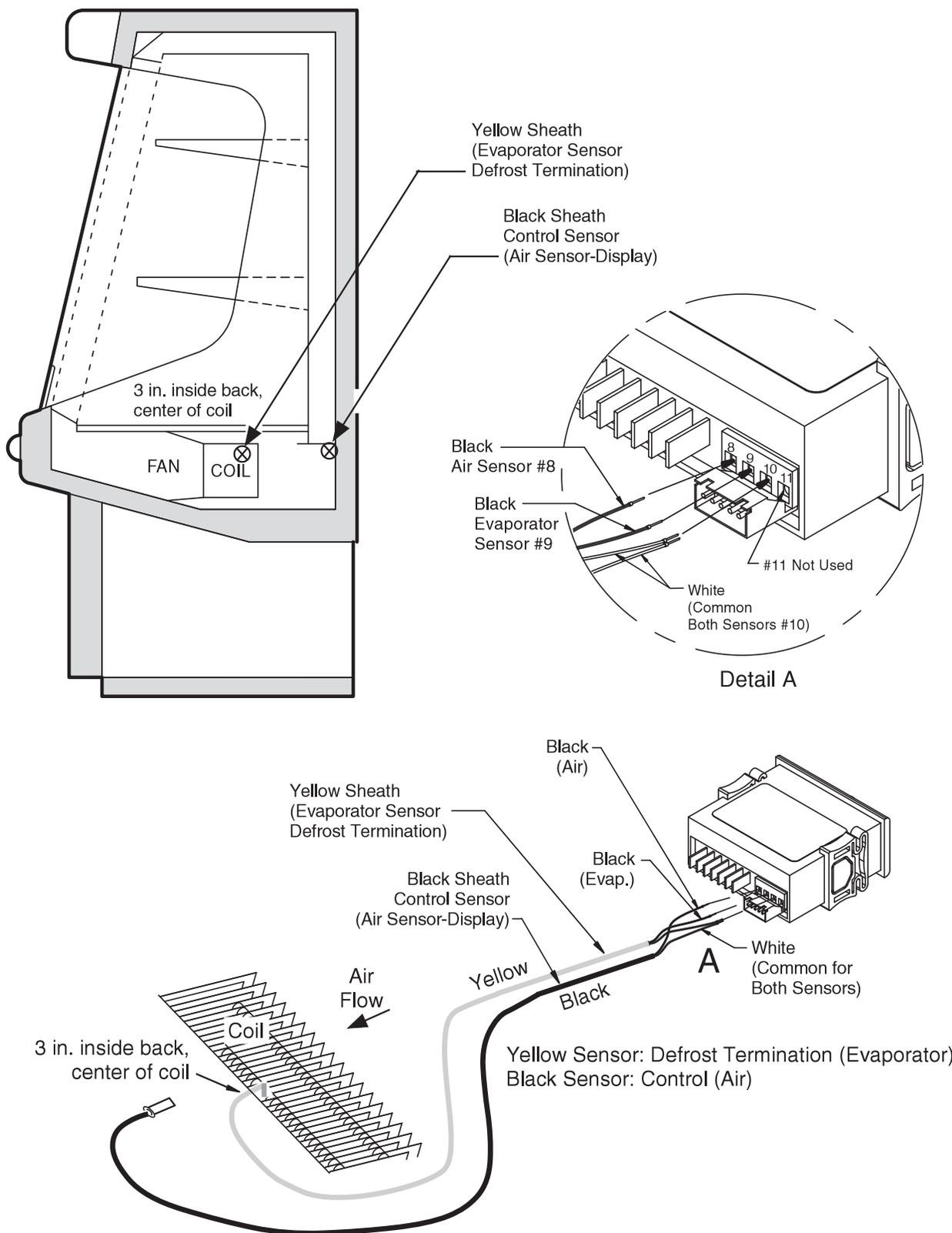


Display - at #1 Position Model GSVM

### TEMPERATURE ADJUSTMENT

1. Rotate the adjustment knob counter clockwise for a warmer setpoint or clockwise for a colder setpoint.
2. While adjusting the temperature, the display shows the setpoint (cut out value). A few seconds after the temperature is set, the controller reverts to the sensed temperature in the merchandiser.
3. To verify merchandiser settings, turn the dial to warm and cold as shown above. Output readings should be within one degree of the temperatures shown above.

Typical Sensor to Control Configuration



## START UP / OPERATION

### START UP

Follow the electromechanical controls start up procedures as detailed in Section 2 of this manual.

Each self contained merchandiser has its own evaporator coil. Model GSVM-5272 has an expansion valve (TEV). The TEV has been factory set at design conditions to provide the recommended performance. GSVM-4060 and GSVM-4072 have capillary tubes.

- a. Check the interior cabinet thoroughly for loose nuts, bolts and electrical connections.
- b. Inspect the refrigeration lines for visible damage or chafing.
- c. Replace electrical box cover and access panel.
- d. Turn on the electrical power, power switch and start the merchandiser. The merchandiser must pull down in temperature. **Allow merchandiser 24 hours to operate before loading product.**

### TEV Adjustment (GSVM-5272 only)

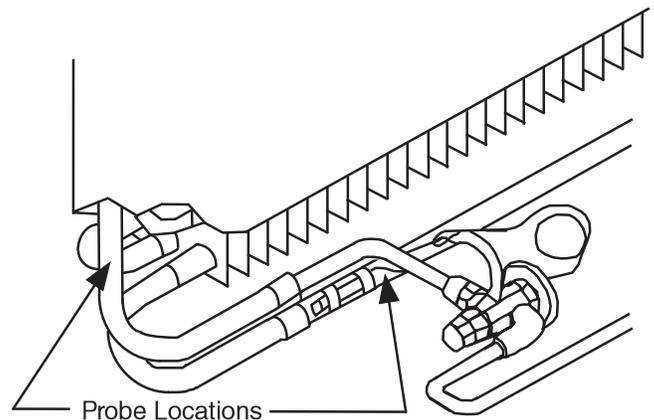
Expansion valves may be adjusted to fully feed the evaporator. Before attempting to adjust valves, make sure the evaporator is clear or only lightly covered with frost, and the merchandiser is within 10°F of its expected operating temperature.

Adjust the valve as Follows:

- a. Attach a probe to the suction line near the expansion valve bulb.
- b. Obtain a pressure reading from the factory installed Schraeder valve. Convert the pressure reading to a saturated temperature for the refrigerant.

Temperature (b) minus Temperature (a) is the superheat. The valve should be adjusted so that the greatest difference between the two temperatures is 3° F (-16° C) to 5° F (-15° C).

Make adjustments of no more than 1/2 turn of the valve stem at a time and wait for at least 15 minutes before rechecking the probe temperature and making further adjustments.



## CONTROLS and ADJUSTMENTS

Refrigeration Controls			Defrost Controls			
Model	Product Application	Discharge Air Temperature	Defrost Frequency (per day)	Type of Defrost	Temp. Termination	Failsafe Time (Minutes)
<b>GVSM-4060</b> Self Contained	Medium Temp. (Dairy, Deli)	30°-35° F	3	Off Time	48°F	45
<b>GVSM-4072</b> Self Contained	Medium Temp. (Dairy, Deli)	30°-35° F	3	Off Time	48°F	45
<b>GVSM-5272</b> Self Contained	Medium Temp. (Dairy, Deli)	30°-35° F	3	Off Time	48°F	45

1. The T-stat controller controls refrigeration temperature. This is factory installed in the control panel. Adjust this control knob to maintain the discharge air temperature shown. Measure discharge air temperatures at the center of the discharge honeycomb.

Defrosts are time initiated and time terminated for self contained and remote. The defrost setting is factory set as shown above.

**LOAD LIMITS**

Each merchandiser has a load limit decal. Shelf life of perishables will be short if load limit is violated.

**AT NO TIME SHOULD MERCHANDISERS BE STOCKED BEYOND THE LOAD LIMITS INDICATED.**

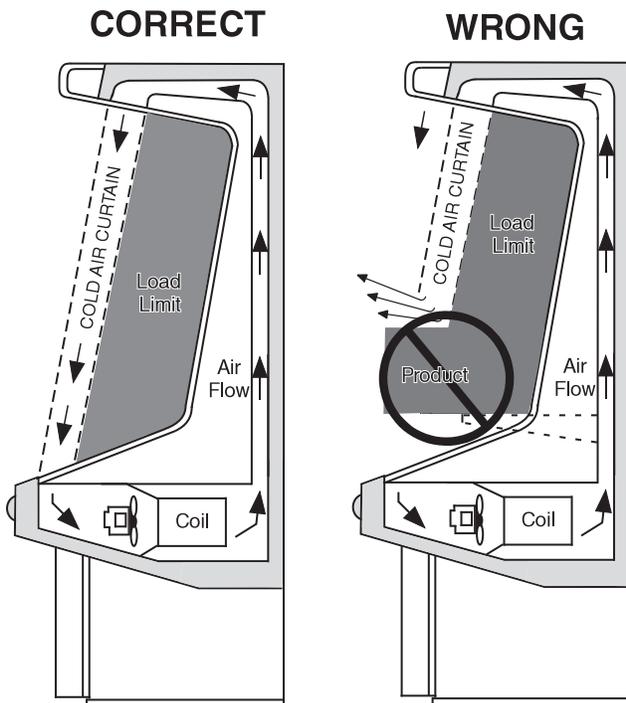
**DO NOT BLOCK AIR LOUVERS.**



**STOCKING**

Product should NOT be placed inside the merchandisers until merchandisers are at proper operating temperature.

**Allow merchandiser 24 hours to operate before loading product.**



**Do not stock product past shelves**

**⚠ WARNING**  
**Product will be degraded and may spoil if allowed to sit in a non-refrigerated area.**

Proper rotation of product during stocking is necessary to prevent product loss. Always bring the oldest product to the front and set the newest to the back.

**AIR DISCHARGE AND RETURN FLUES MUST REMAIN OPEN AND FREE OF OBSTRUCTION AT ALL TIMES** to provide proper refrigeration and air curtain performance. Do not allow product, packages, signs, etc. to block these grilles. Do not use non-approved shelving, baskets, display racks, or any accessory that could hamper air curtain performance.

Do not allow product to be placed outside of the designated load limits in the illustration at left. Air flows through the back wall, over the product on the shelves, across the face of the product (air curtain), and into the return air grille.

**SOLAR THERMOMETER**

GSVM models have solar thermometers. The thermometer is located at the top, front center of the merchandiser's cabinet interior.

Temperature is displayed in Fahrenheit degrees as a standard option. Celsius is also an available option. The thermometer may be replaced if it becomes damaged.

To replace: remove the two screws securing the thermometer to its mounting bracket. Remove the sensing element from the clip, and install the new thermometer in reverse order.

### SHELF MAXIMUM WEIGHT LIMITS

Husmann merchandiser shelves are designed to support the maximum weight load limits as indicated in the table below.

Exceeding these maximum weight load limits may cause damage to the shelf or shelves, damage to the merchandiser, damage to store products, and potentially create a hazardous condition for customers and staff. Exceeding the indicated maximum weight load limits constitutes misuse as described in the Husmann Limited Warranty.

GSVM-4060 has two standard shelves for product display. The 13 in. shelf should be positioned above the 15 in. shelf. Models GSVM-5272 and GSVM-4072 have an additional standard 13 in. shelf that is also to be positioned above the 15 in. shelf.

#### Maximum Shelf Weight Limits

	<sup>1</sup> Flat	17° Tilt	30° Tilt
Bottom Sheet Metal Area	250 lb (113.4 kg)	N/A	N/A
Standard 13 in. (330 mm) Shelf	250 lb (113.4 kg)	250 lb (113.4 kg)	75 lb (34 kg)
Standard 15 in. Shelf w/ optional 6° adapters	125 lb (56.7 kg)	N/A	N/A
Optional Wire Baskets	200 lb (90.7 kg)	100 lb (35.4 kg)	30 lb (13.6 kg)

<sup>1</sup> Shelf load limits at 0° tilt

## MAINTENANCE

### CARE AND CLEANING

Long life and satisfactory performance of any equipment is dependent upon the care it receives. To ensure long life, proper sanitation and minimum maintenance costs, these merchandisers should be thoroughly cleaned, all debris removed and the interiors washed down, weekly.

#### Exterior Surfaces

The exterior surfaces must be cleaned with a mild detergent and warm water to protect and maintain their attractive finish. **NEVER USE ABRASIVE CLEANSERS OR SCOURING PADS.**

#### Interior Surfaces

The interior surfaces may be cleaned with most domestic detergents, ammonia based cleaners and sanitizing solutions with no harm to the surface. Self contained models empty into a limited capacity evaporation pan, which will overflow if excess water is used in cleaning.

### *Do NOT Use:*

- Abrasive cleansers and scouring pads, as these will mar the finish.
- Coarse paper towels on coated glass.
- Ammonia-based cleaners on acrylic parts.
- Solvent, oil or acidic based cleaners on any interior surfaces.
- Do not use high pressure water hoses.

### **WARNING**

**Product will be degraded and may spoil if allowed to sit in a non-refrigerated area.**

### *Do:*

- Disconnect electrical power before cleaning.**
- Remove the product and all loose debris to avoid clogging the waste outlet.
- Store product in a refrigerated area such as a cooler. Remove only as much product as can be taken to the cooler in a timely manner.
- Thoroughly clean all surfaces with soap and hot water. **DO NOT USE STEAM OR HIGH WATER PRESSURE HOSES TO WASH THE INTERIOR. THESE WILL DESTROY THE MERCHANDISERS' SEALING CAUSING LEAKS AND POOR PERFORMANCE.**
- Lift hinged fan plenum for cleaning. Hook chain in rear panel to secure plenum during cleaning. **BE SURE TO REPOSITION THE FAN PLENUM AFTER CLEANING MERCHANDISER.**
- Take care to minimize direct contact between fan motors and cleaning or rinse water.

### **WARNING**

**Do NOT allow cleaning agent or cloth to contact food product.**

- Do NOT flood merchandiser with water. **NEVER INTRODUCE WATER FASTER THAN THE WASTE OUTLET CAN REMOVE IT.**

**SELF CONTAINED MODELS EMPTY INTO AN EVAPORATION PAN THAT WILL OVERFLOW IF TOO MUCH WATER IS INTRODUCED DURING CLEANING.**

- Allow merchandisers to dry before resuming operation.
- After cleaning is completed, turn on power to the merchandiser.

**WARNING****— LOCK OUT / TAG OUT —**

***To avoid serious injury or death from electrical shock, always disconnect the electrical power at the main disconnect when servicing or replacing any electrical component. This includes, but is not limited to, such items as doors, lights, fans, heaters, and thermostats.***

**CLEANING DISCHARGE HONEYCOMB**

Discharge air honeycombs should be cleaned every six months. Dirty honeycombs will cause merchandisers to perform poorly. The honeycombs may be cleaned with a vacuum cleaner. Soap and water may be used if all water is removed from the honeycombs cells before replacing. Be careful not to damage the honeycombs.

1. Using a flat object such as a screw driver, compress the honeycomb and remove it from its retainer.
2. Clean and dry the air honeycombs.
3. After cleaning, replace in reverse order. Damaged honeycombs must be replaced.

**CAUTION****DO NOT FLOOD!**

**Use only enough water necessary to clean surface. Water must not drip down the case!**

**Never use ammonia based cleansers, abrasive cleansers, or scouring pads.**

**CLEANING STAINLESS STEEL SURFACES**

Use non-abrasive cleaning materials, and always polish with grain of the steel. Use warm water or add a mild detergent to the water and apply with a cloth. Always wipe rails dry after wetting.

Use alkaline chlorinated or non-chlorine containing cleaners such as window cleaners and mild detergents. Do not use cleaners containing salts as this may cause pitting and rusting of the stainless steel finish. Do not use bleach.

**CLEANING SOLAR THERMOMETER**

GSVM models have solar thermometers. The thermometer is located at the top, front center of the merchandiser's cabinet interior.

To clean the thermometer:

1. Remove the two screws securing the thermometer to its mounting bracket. Remove the sensing element from the clip
2. Use non-abrasive cleaning materials and a mild detergent to clean thermometer.
3. Be sure to wipe the element clean of any residues.

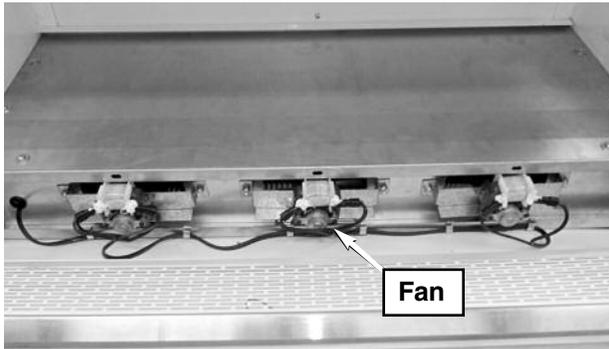
**CAUTION**

**Do NOT use HOT water on Cold glass Surfaces. This can cause the glass to shatter and could result in personal injury. Allow glass fronts, to warm before applying hot water.**

### CLEANING UNDER DISPLAY PAN

Remove all product from the merchandiser and place in cooler. Always disconnect electrical power before cleaning.

1. Remove the display pan
2. Use non-abrasive cleaning materials and a mild detergent to clean display pan.
3. Wipe down the insides of the merchandiser with a mild detergent, and replace display pan. Allow merchandiser to pull down in temperature before loading product.



Merchandiser with display pan removed

### CLEANING EVAPORATION PAN

(GSVM-4060 STANDARD)

(GSVM-4072/5272-OPTIONAL)

The condensate water outlet for self contained models empties into a limited capacity evaporation pan.

Debris or dirt accumulation inside the condensate evaporation pan or on the heater coil will reduce the pan's evaporation capacity and cause premature heater failure. The evaporation pan waste water will overflow and spill onto the floor if the heater is not properly operating.

Remove accumulated debris from the evaporation pan. Wipe down heater coil with a cloth and warm water. Be sure to remove any dirt, debris or liquids from the heater coil.

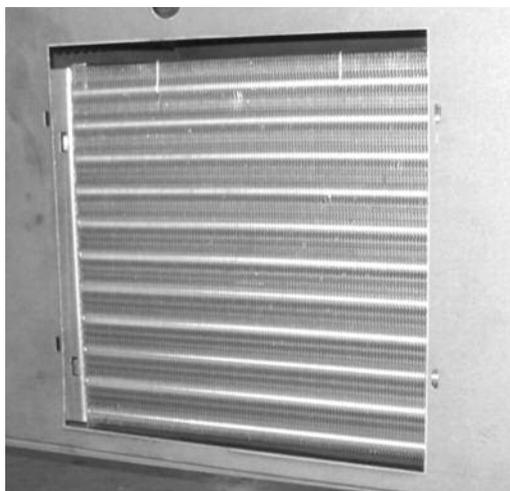
Water introduced during cleaning will cause the evaporation pan to overflow.

## **WARNING**

**Evaporation Pan is Hot!**  
and poses risk of bodily injury – Always  
Wear gloves and protective eye wear when  
servicing. Turn off evaporation pan heater,  
and allow pan to cool.

### CLEANING COILS

Condenser coils should be cleaned at least once per month. Additional cleaning may be needed depending on the operational environment. A dirty condenser blocks normal airflow through the coils.



Airflow blockage increases energy consumption and reduces the merchandiser's ability to maintain operating temperature.

To clean the coils, use a vacuum cleaner with a wand attachment and a soft (non-metallic) brush to remove dirt and debris. Do not bend coil fins. Always wear gloves and protective eye wear when cleaning near sharp coil fins and dust particles.



 **WARNING**  
**SHUT FANS OFF DURING CLEANING PROCESS.**

### REMOVING SCRATCHES FROM BUMPER

Most scratches and dings can be removed using the following procedure.

1. Use steel wool to smooth out the surface area of the bumper.
2. Clean area.
3. Apply vinyl or car wax and polish surface for a smooth glossy finish.



#### PRECAUTION CLEANING PRECAUTIONS

When Cleaning:

- Do not use high pressure water hoses
- Do not introduce water faster than waste outlet can drain
- NEVER INTRODUCE WATER ON SELF CONTAINED UNIT WITH AN EVAPORATION PAN
- NEVER USE A CLEANING OR SANITIZING SOLUTION THAT HAS OIL BASE (these will dissolve the butyl sealants) or an AMMONIA BASE (this will corrode the copper components of the merchandiser)
- TO PRESERVE THE ATTRACTIVE FINISH:
- Use a water and a mild detergent for the exterior only
- Do NOT use a chlorinated cleaner on any surface
- Do NOT use abrasives or steel wool scouring pads (these will mar the finish)

## SERVICE

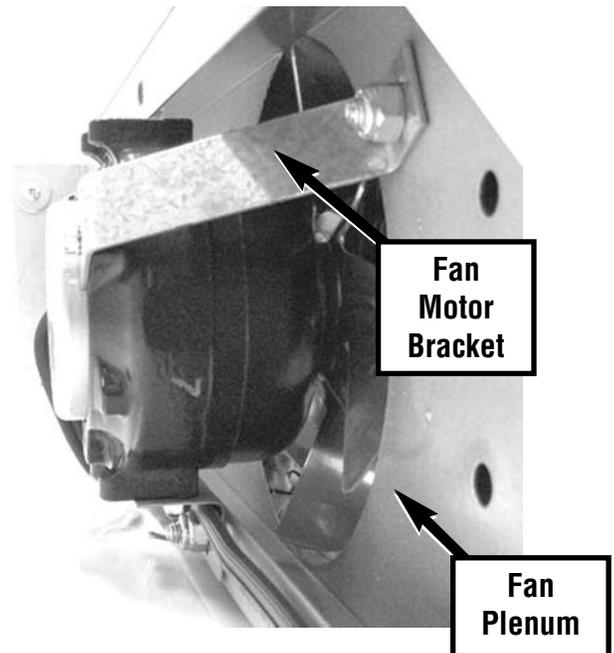
### REPLACING FAN MOTORS AND BLADES

Should it ever be necessary to service or replace the fan motors or blades be certain that the fan blades are reinstalled correctly.

**THE BLADES MUST BE INSTALLED WITH RAISED EMBOSSED (PART NUMBER ON PLASTIC BLADES) POSITIONED AS INDICATED ON THE PARTS LIST.**

#### For access to these fans:

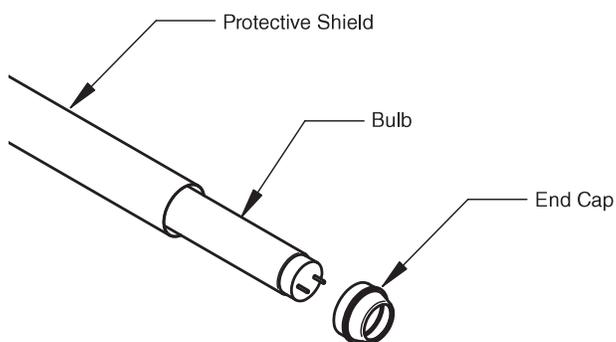
1. Remove product and place in a refrigerated area. Disconnect electrical power.
2. Remove bottom pan.
3. **Disconnect fan from wiring harness.**
4. If it is determined that fan motor needs to be replaced, remove fan motor brackets from the fan plenum as shown.
7. Replace fan motor and/or blades.
8. Install brackets to fan motor and motor bracket to the fan plenum.
9. Reconnect fan motor to wiring harness.
10. Turn on power.
11. Verify that motor is working and blade is turning in the correct direction.
12. Reinstall display pans. Bring merchandiser to operating temperature before restocking.



## REPLACING FLUORESCENT LAMPS

Fluorescent lamps have a plastic shield. When the lamp is replaced, keep the lamp shield to install over the new lamp.

The switch under the display lamp cover operates both the display lamp and interior lamps.



**Remove Plastic Pins Attaching Display Lamp.**

## ⚠ WARNING

— LOCK OUT / TAG OUT —

*To avoid serious injury or death from electrical shock, always disconnect the electrical power at the main disconnect when servicing or replacing any electrical component. This includes, but is not limited to, such items as doors, lights, fans, heaters, and thermostats.*

## LED FIXTURE REPLACEMENT

For canopy LEDs, the protective shield is incorporated as part of the LED fixture. Rotate the LED fixture to release it from the lamp holder. Shelf LED fixtures are held in place by magnets. Pull the fixture down firmly to release disconnect cord from receptacle on the rear wall.

## ⚠ WARNING

**Fluorescent lamps contain mercury vapor. Mercury exposure at high levels can harm the brain, heart, kidneys, lungs, and immune system of people of all ages. Do not break or puncture fluorescent lamps. Dispose of, or store, all fluorescent lamps in accordance with Federal (40 CFR 273), State, and local hazardous waste requirements. Refer to: <http://www.epa.gov/mercury/about.htm>**

## TROUBLESHOOTING GUIDE

PROBLEM	PROBABLE CAUSE	SOLUTION
Compressor will not start. (no noise)	<ol style="list-style-type: none"> <li>1. Power disconnected</li> <li>2. Blown fuse or breaker</li> <li>3. Defective or broken wiring</li> <li>4. Defective overload</li> <li>5. Defective temperature control</li> </ol>	<ol style="list-style-type: none"> <li>1. Check service cord or wiring connection</li> <li>2. Replace fuse or reset breaker</li> <li>3. Repair or replace</li> <li>4. Replace</li> <li>5. Replace</li> </ol>
Compressor will not start; cuts out on overload.	<ol style="list-style-type: none"> <li>1. Low voltage</li> <li>2. Defective compressor</li> <li>3. Defective relay</li> <li>4. Restriction (pinched cap tube)</li> <li>5. Restriction (moisture)</li> <li>6. Condenser blocked with dust and dirt</li> <li>7. Defective condenser fan motor</li> </ol>	<ol style="list-style-type: none"> <li>1. Cabinet voltage must not be more than 5% below rating</li> <li>2. Replace</li> <li>3. Replace</li> <li>4. Repair or replace</li> <li>5. Leak check, replace drier evacuate and recharge</li> <li>6. Clean condenser</li> <li>7. Replace</li> </ol>
Warm storage temperature	<ol style="list-style-type: none"> <li>1. Temperature control not set properly</li> <li>2. Short or refrigerant</li> <li>3. Cabinet location too warm</li> <li>4. Refrigerant over-charge</li> <li>5. Low voltage, compressor cycling on overload</li> </ol>	<ol style="list-style-type: none"> <li>1. Reset control. Rotate knob Clockwise</li> <li>2. Leak check, replace drier evacuate and recharge</li> <li>3. Move to cooler location or correct excessive heat source</li> <li>4. Purge system, evacuate and recharge</li> <li>5. Compressor voltage must not be more than 5% below rating</li> </ol>
Compressor runs continuously; product too warm.	<ol style="list-style-type: none"> <li>1. Short of refrigerant</li> <li>2. Inefficient compressor</li> <li>3. Coil iced up</li> </ol>	<ol style="list-style-type: none"> <li>1. Leak check, replace drier, evacuate and recharge</li> <li>2. Replace</li> <li>3. Force manual defrost</li> </ol>
Compressor runs continuously; product too cold	<ol style="list-style-type: none"> <li>1. Defective control</li> <li>2. Control sensing element not in positive contact</li> <li>3. Short on refrigerant</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace</li> <li>2. Assure proper contact</li> <li>3. Leak check, replace drier evacuate and recharge</li> </ol>

## TROUBLESHOOTING LIGHT GUIDE

PROBLEM	SOLUTION
Lights won't start	<ol style="list-style-type: none"> <li>1. Check light switch</li> <li>2. Check continuity to ballast / Power Supply</li> <li>3. Check to see if bulbs are inserted properly in sockets</li> <li>4. Check voltage</li> </ol>
Lights flicker	<ol style="list-style-type: none"> <li>1. Allow lamps to warm up</li> <li>2. Check lamp sleeve for cracks</li> <li>3. Check sockets for moisture and proper contact</li> <li>4. Bulb replacement may be necessary</li> <li>5. Check voltage</li> <li>6. New bulbs tend to flicker until used</li> </ol>

## GSVM ACCESSORIES

The following is a description of the various accessories available for the GSVM.

**Caster Kit** — Consists of 5 in. braking casters, which screw in to the standard threaded holes in the four corners under the cage occupied by the standard leg levelers. The kit will add 5 5/8 in. of height to the case.

**Leg Kit** — The legs also go into the same holes as the standard levelers, which will have to be removed. The legs are adjustable and will add 5 5/16 in. to the height of the case. The skirt kit requires the use of these legs.

**Four-sided Skirt Kit** — This is a four-sided skirt that encloses the open area under the merchandiser when the leg kit is used. The skirt kit clamps to the legs.

**Night Cover** — This is a clear, 5 mm thick, polyester shade cover that covers the face of the merchandiser. It will fasten to the top of the merchandiser and be drawn to a snap fastener in the area above the front bumper. The cover, although loose fitting on the ends, will conserve energy during periods when the store is not open. The cover is standard on the GSVM-5272.

**Wrap-Around Bumper Kit** — This bumper replaces the standard front bumper and wraps around both sides of the merchandiser at the standard height of 22 inches to the centerline of the 2 1/4 in. wide bumper.

**Colored Accent Panel** — This panel can be (a.) the top front panel over the product, (b.) the panel behind the bumper, or (c.) the access panel below the bumper panel, or any combination of these.

**Shelf end Trim Kit** — Consists of four painted steel ends for the standard 13 in. and 15 in. shelves. This trim conceals and protects the exposed ends of the shelves. The trim kit attaches by two snap fasteners supplied with each trim piece for the GSVM-4060 model.

**High Humidity Condensate Pan** — (For GSVM-4072 & 5272) This is a 1,000 watt, 9 Amp. pan with a 6 ft - 9 in. 115V power cord attached. A dedicated circuit is required.

**Shelf Upslope Tilt Adapter Kit** — This kit consists of four zinc coated wire adapters to increase the two standard shelves, upslope from 1 1/2° to 6°.

**Price Tag Molding Kit** — This kit consists of aluminum price tag molding for the standard shelves. Price tag moulding will hold both 1 in. and 1.235 in. standard price tags. (Note that the standard shelves accept 1.235 in. tags.)

**Wire Product Stop Kit** — This kit consists of a 2 in. high chrome plated open wire stops for the standard shelf. This stop is mounted under tension and should not be confused with the wire front in the partition kit.

**Wire Partition Kit** — This is a free-standing wire system, which attaches to the standard shelves, and consists of a wire front, (different from the product stop) two wire sides and two partitions from the front to back, all chrome plated and 3 inches high.

**Wire Cross Divider** — This is a 3 inches high and 4 inch-long divider that could be ordered to be used with the wire partition kit above.

**Wire Basket Kits** — One kit is available to replace the top 13 in. shelf or shelves, another is available to replace the bottom 15 in. shelf. Each kit consists of a wire basket, two brackets, and two dividers, which could also be used as ends. These parts are zinc plated. The baskets have an 8 in. high back and a 4 in sloped front.

**Wire Basket Dividers** — These are additional dividers, which can be with the wire baskets kit to obtain additional partitioned areas in the baskets.

**Additional Lighted Shelf** — This consists of an additional 13 in. lighted shelf that can be positioned between the two standard shelves. It is the same construction as the top standard 13 in. shelf.

**LED Lights** — LED light fixtures replace fluorescent lights. This technology saves energy and extends component life.

**Night Curtain** — Night curtains cover the throat opening of the case and is installed on the case after normal business hours. Night curtains help reduce energy costs, allowing the refrigeration system to work less when the case is not in use. The night curtain for GSVM is standard for model 5272 and is an optional kit for models 4060 and 4072.

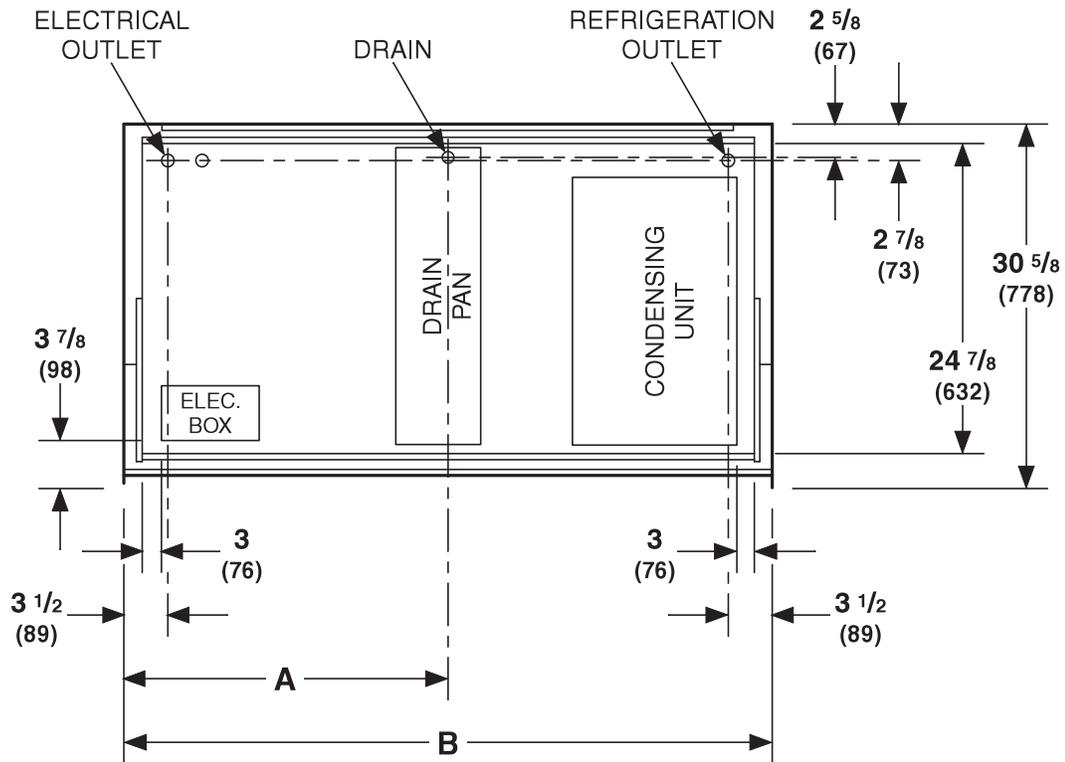




Hussmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2012 energy efficiency standards.

Item Part #	Description	Item Part #	Description
<b>FAN ASSEMBLIES AND THERMOSTATS</b>		EQ.4671068	Condensing Unit Assembly (GSVM-5272)
<b>GSVM-4060, GSVM-4072, GSVM-5272</b>		TP.4612640	Cap Tube Assembly (GSVM-4060 & 4072)
<b>5W Standard</b>	Fan Assembly	VR.4613892	Crankcase Pressure Regulator
MO.4410333	Motor — 120V/60 Hz	FI. 4611347	Drier (GSVM-4060 & 4072)
FB.21S080	Fan Blade	FI.4612641	Drier (GSVM-5272)
CT.4483199	Electronic Control Safe-NET III — GSVM	TM.4910245	Solar Thermometer
CC.4482538	Defrost Sensor — yellow	<b>LAMPS AND BALLASTS</b>	
CC.4482537	Air Sensor — black	EP.4481936	Ballast (GSVM-4060 & 4072)
CC.4482540	Safe-NET III — display(°F)	EP.4481962	Starter, Lamp, 20W
EP.4482541	Safe-NET III — harness	BA.4480866	Ballast (GSVM-5272)
EP.19S636	Cord, Power Supply (GSVM 4060 only)	EP.4480867	Starter, Lamp, 40W
<b>HEATERS</b>		<b>LEDs</b>	
DP.469270	Condensate Pan Heater 115V, 350W (GSVM-4060)	EP.4483200	Power Supply (all GSVM models)
HE.4969309	Condensate Pan (GSVM-4060)	<b>GSVM-4060</b>	
DP.4969270	1000W/120V Condensate Pan (GSVM-5272)	BU.4441589	Shelf LED Fixture
<b>CONTROL PANEL</b>		BU.4441801	Canopy LED Fixture
SW.4440542	GSVM-4060 - Power Switch	<b>GSVM-4072</b>	
SW.4440546	GSVM-4072 & 5272 Power Switch	BU.4441589	Shelf LED Fixture
CC.4481520	Compressor Relay	BU.4441801	Canopy LED Fixture
<b>REFRIGERATION</b>		<b>GSVM-5272</b>	
EQ.4671633	Condensing Unit Assembly (GSVM-4060 & 4072)	BU.4441593	Shelf LED Fixture
		BU.4441800	Canopy LED Fixture
		<i>Fluorescent Lamps and LEDs Replace with like fixtures.</i>	

**GSVM**



MODEL	"A"	"B"
GSVM 4072	20"	40"
GSVM 4060	26"	52"

**General**

**GSVM-4060**

**GSVM-5272**

Case Length (*Note: Includes One Pair Ends*)

40 in. (1016 mm)

52 in. (1321)

Optional End Bumpers (*One Pair*)

2 in. (51 mm)

2 in. (51 mm)

**Waste Outlet**

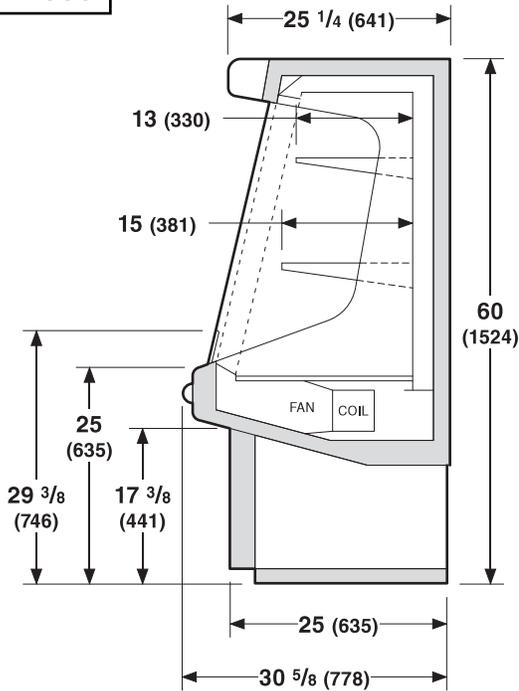
LH end of case (*from outside of End Assembly*)  
to center of waste outlet

20 in. (508 mm)

26 in. (660 mm)

Dimensions shown as inches and (mm).

**GSVM-4060**



REFRIGERATION DATA

**GSVM-4060 GSVM-4072  
GSVM-5272**

**Thermostat**

**Setting CI/CO (°F)**

	Position:	#1	#7
GSVM		36	36
		32	16

**Condensing Unit (hp)** 3/4 hp (All Models)

**Condensing Unit**

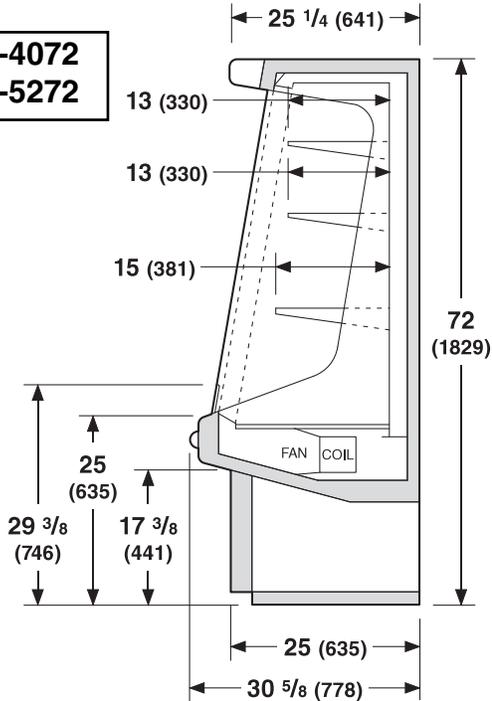
**Capacity**

GSVM-4060/4072 4410

GSVM-5272 4610

(Btu per hour at std. rating conditions)

**GSVM-4072  
GSVM-5272**



DEFROST DATA

**Frequency (hour)**

GSVM-4060/4072/5272 8

*OFFTIME*

**Failsafe (minutes)**

GSVM-4060/4072/5272 45

**Defrost Termination**

Temperature Terminated

PHYSICAL DATA

**Refrigerant Charge**

GSVM-4060 (R134a) 33 oz 0.936 kg

GSVM-4072 (R134a) 32 oz 0.907 kg

GSVM-5272 (R404a) 46.5 oz 1.318 kg

**Note:** This data is based on store temperature and humidity that does not exceed 75°F and 55% R.H. unless otherwise stated. Schedule defrost at night while lights are off.

**Electrical Data**

*Note: These are rated values for individual components and should not be added together to determine total merchandiser electrical load.*

	<b>GSVM-4060/4072</b>		<b>GSVM-5272</b>	
<b>Number of Fans – 4W (open shell)</b>	<b>2</b>		<b>3</b>	
	<b>Amperes</b>	<b>Watts</b>	<b>Amperes</b>	<b>Watts</b>
<b>Evaporator Fans</b>				
115V 60Hz Standard	<b>0.8</b>	<b>8</b>	<b>1.2</b>	<b>12</b>
<b>Condensate Pan Heaters (115V)</b>	<b>3</b>	<b>350</b>		
<b>GSVM-4060 (only)</b>				
<b>Condensate Pan Heaters (115V)</b>			<b>9.0</b>	<b>1000</b>
<b>GSVM-4072/GSVM-5272</b>				
<b>Condensing Unit (115V, 1Ph, 60Hz) Standard</b>				
<b>GSVM-4060/4072</b>				
Compressor LRA		78.0		
Compressor RLA		13.6		
<b>GSVM-5272</b>				
Compressor LRA		70.0		
Compressor RLA		15.0		

**Product Data****GSVM-4060**

*ARI Total Display Area*<sup>1</sup> (Sq Ft/Case) 11.04 ft<sup>2</sup> /case ( 1.086 m<sup>2</sup> /case)

**GSVM-4072**

*ARI Total Display Area*<sup>1</sup> (Sq Ft/Case) 16.65 ft<sup>2</sup> /case ( 1.546 m<sup>2</sup> /case)

**GSVM-5272**

*ARI Total Display Area*<sup>1</sup> (Sq Ft/Case) 18.47 ft<sup>2</sup> /case ( 1.878 m<sup>2</sup> /case)

<sup>1</sup> Computed using AHRI 1200 standard methodology:  
Total Display Area, ft<sup>2</sup> [m<sup>2</sup>] / Unit of Length, ft [m]

	Nominal HP	Refrigerant Type	Volts	Run Amps	Nema Plugs	Fuse Amps	Hz/Ph
GSVM-4060	3/4	R134a	115	16	5-20P	20	60/1
GSVM-4072	3/4	R134a	115	17.0	Hard Wired*	25	60/1
GSVM-5272	3/4	R404a	115	19.5	Hard Wired*	25	60/1

\* Requires field wiring.

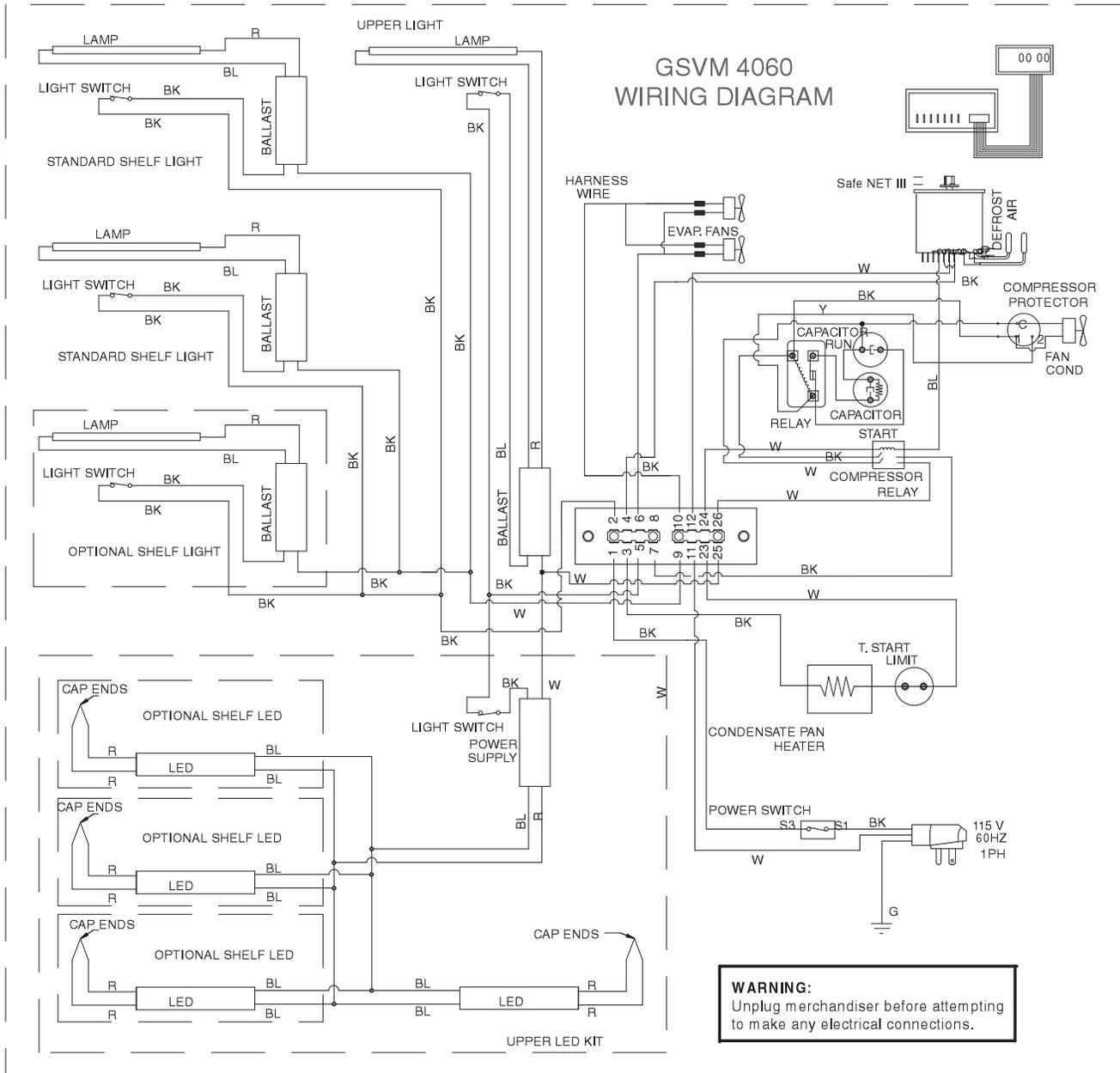
Optional electric condensate pan requires dedicated 120V / 15 Amp circuit.

**ESTIMATED SHIPPING WEIGHT <sup>2</sup>**

<i>Case</i>	<i>self contained</i>	<i>remote</i>	<i>End</i>
<b>GSVM-4060</b>	<b>380 lb</b> (172kg)	<b>308 lb</b> (140kg)	Included
<b>GSVM-4072</b>	<b>425 lb</b> (193kg)	<b>353 lb</b> (160kg)	Included
<b>GSVM-5272</b>	<b>600lb</b> (272kg)	<b>520 lb</b> (236kg)	Included

<sup>2</sup> Actual weights will vary according to optional kits included.

**GSVM-4060**



**WARNING**

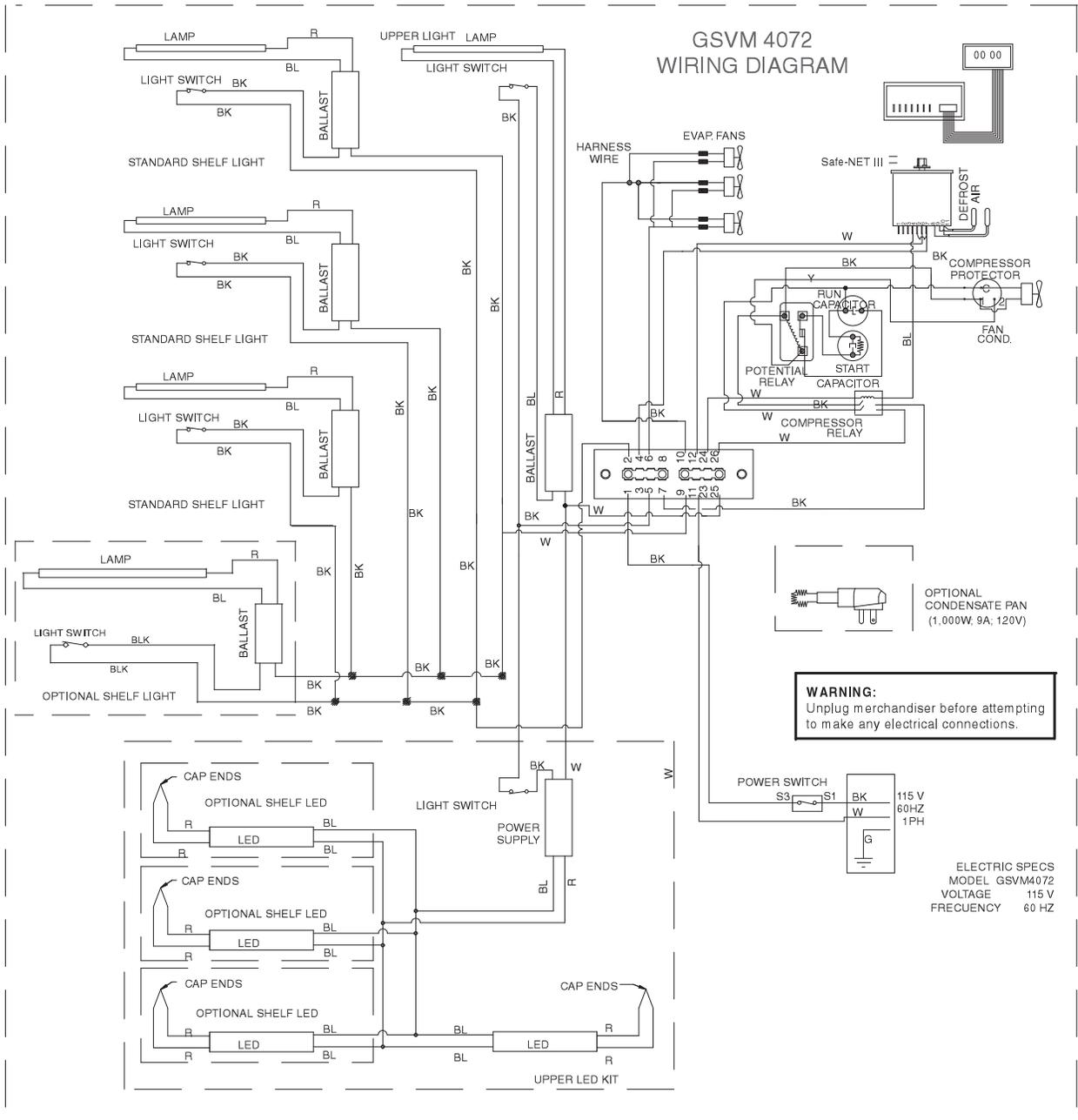
All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND ≡ = CASE GROUND

**GSVM-4072**



**WARNING**

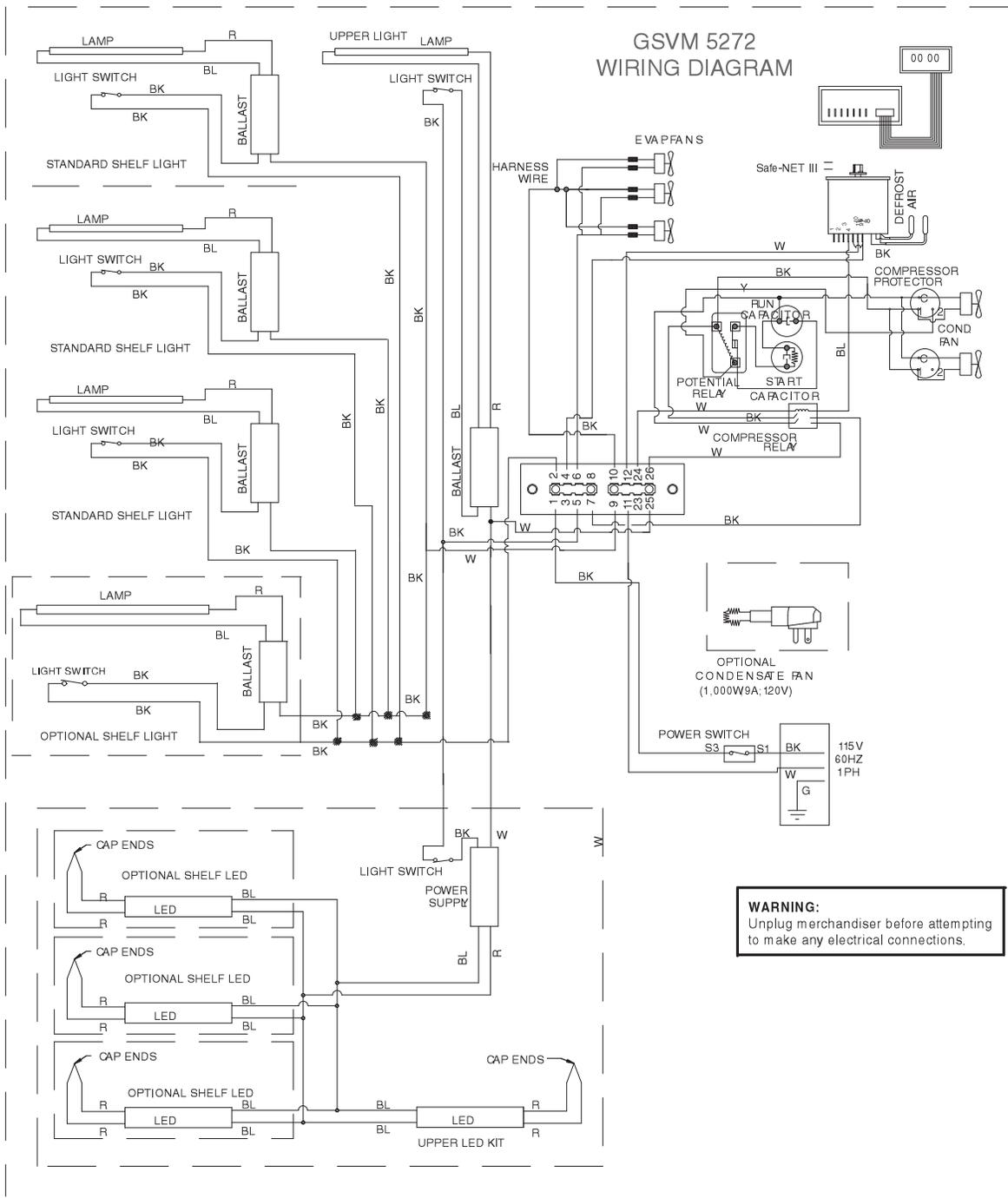
All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

● = 120V POWER ○ = 120V NEUTRAL ⚡ = FIELD GROUND  $\overline{\text{mm}}$  = CASE GROUND

**GSVM-5272**



**WARNING:**  
Unplug merchandiser before attempting to make any electrical connections.

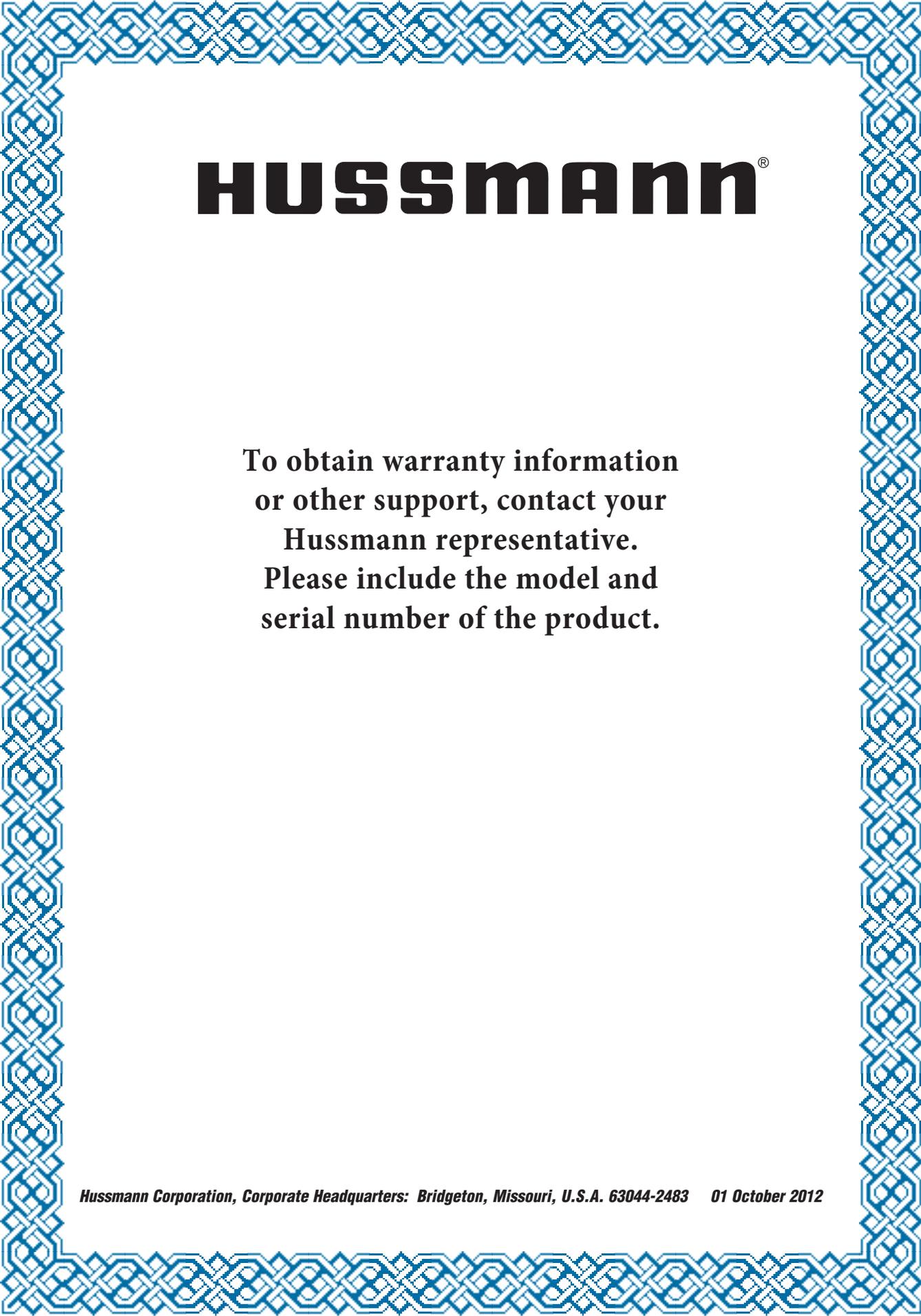
**WARNING**

All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

● = 120V POWER ○ = 120V NEUTRAL ⚡ = FIELD GROUND ⏏ = CASE GROUND



# **HUSSMANN<sup>®</sup>**

**To obtain warranty information  
or other support, contact your  
Hussmann representative.  
Please include the model and  
serial number of the product.**

*Hussmann Corporation, Corporate Headquarters: Bridgeton, Missouri, U.S.A. 63044-2483 01 October 2012*

**Husmann Corporation**

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