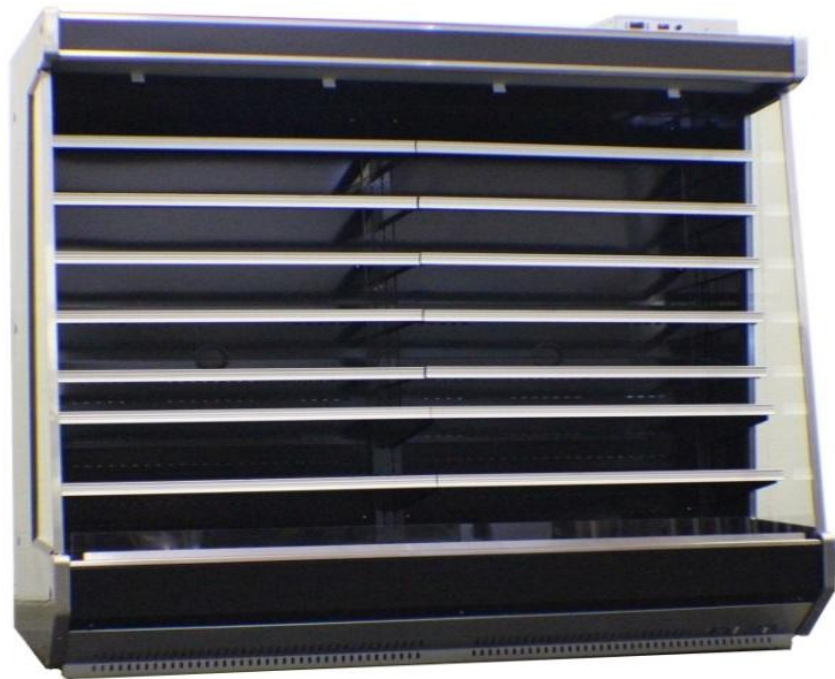




# Operation & Installation Manual

## MODEL RSC Remote REFRIGERATED SHOWCASE





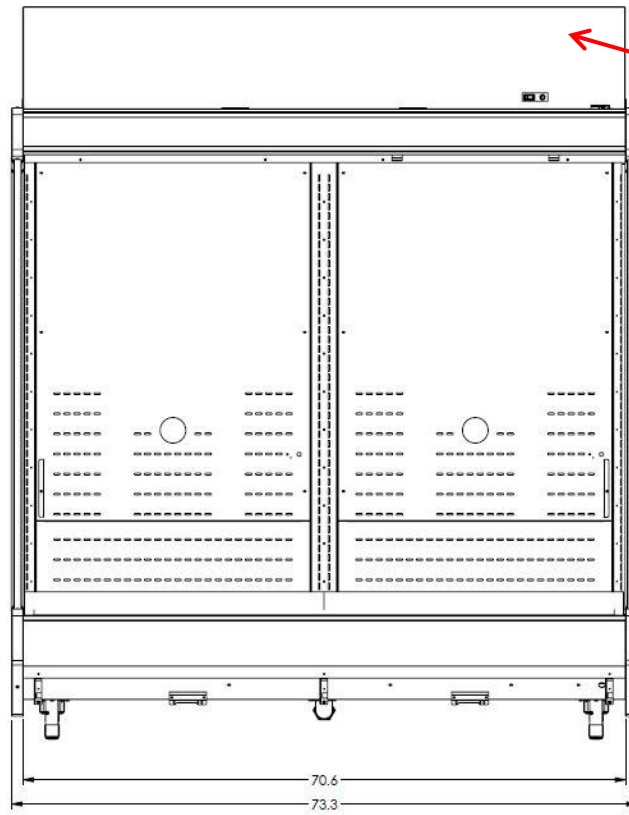
The RSC refrigerated display showcase units have been safety and performance-test approved by Intertek, a safety regulatory testing agency. The regulatory agency file number is listed below and at the bottom of the Specification table on page 5. ETL File #4007858



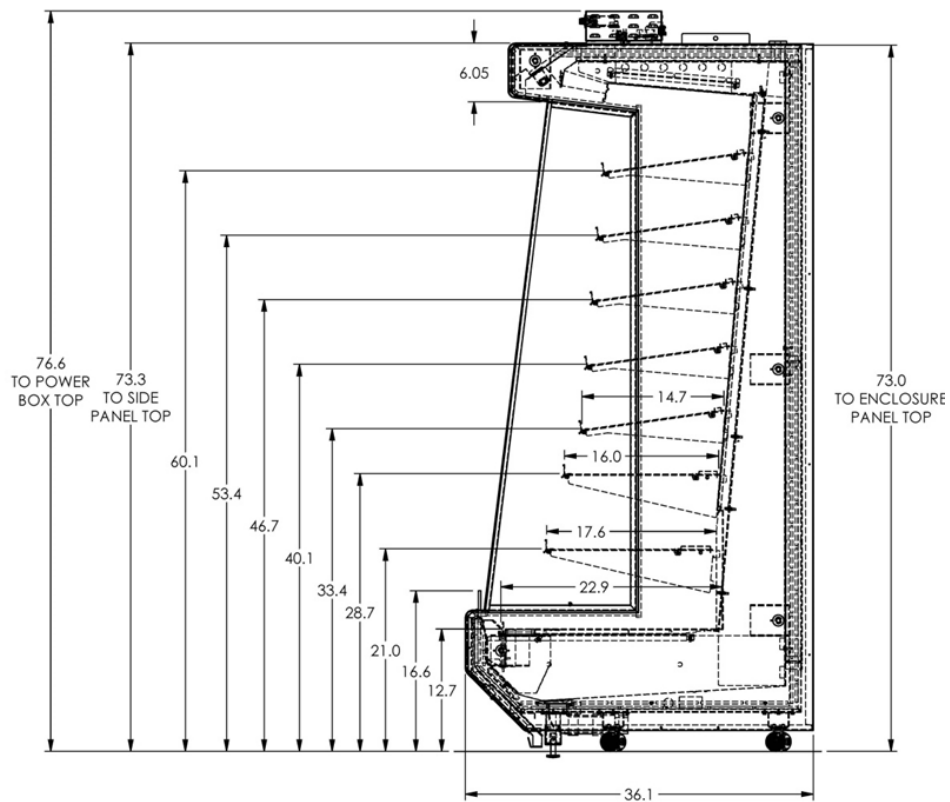
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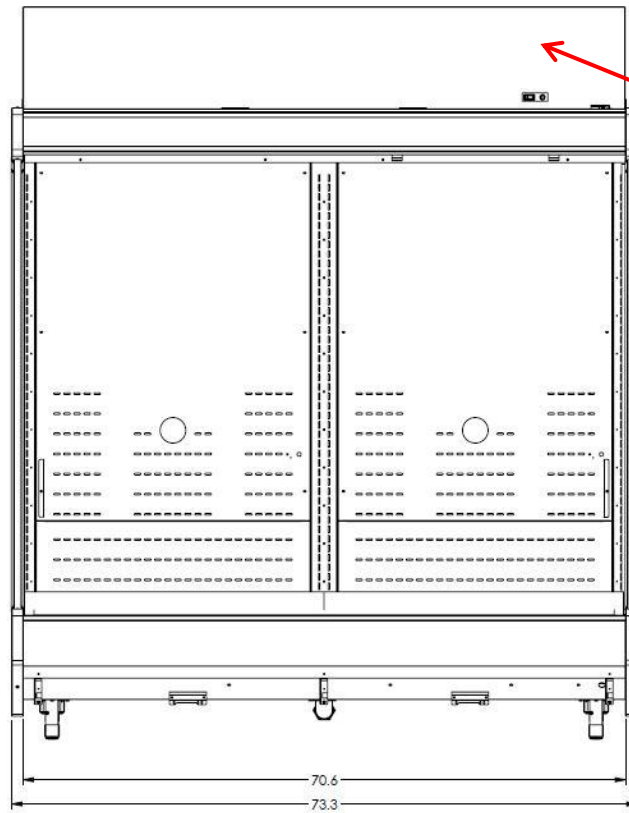
## DIMENSIONS RSC 6



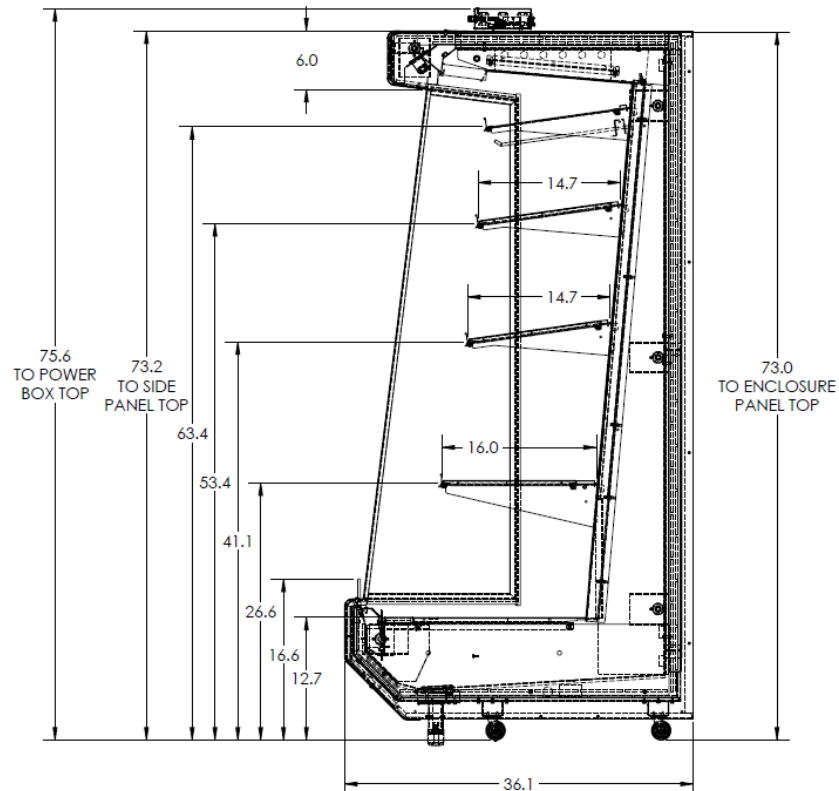
Top Valence Cover  
increases the overall  
height by 16" to 89.0"



## DIMENSIONS RSC 6 (STAINLESS)



Top Valence Cover  
increases the overall  
height by 16" to 89.0"



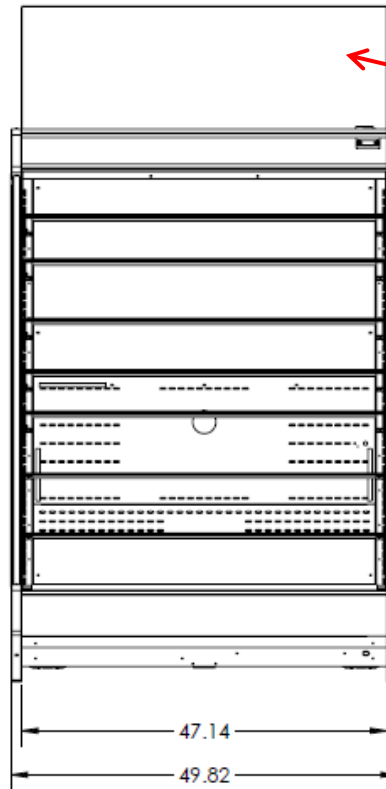


## SPECIFICATIONS RSC 6

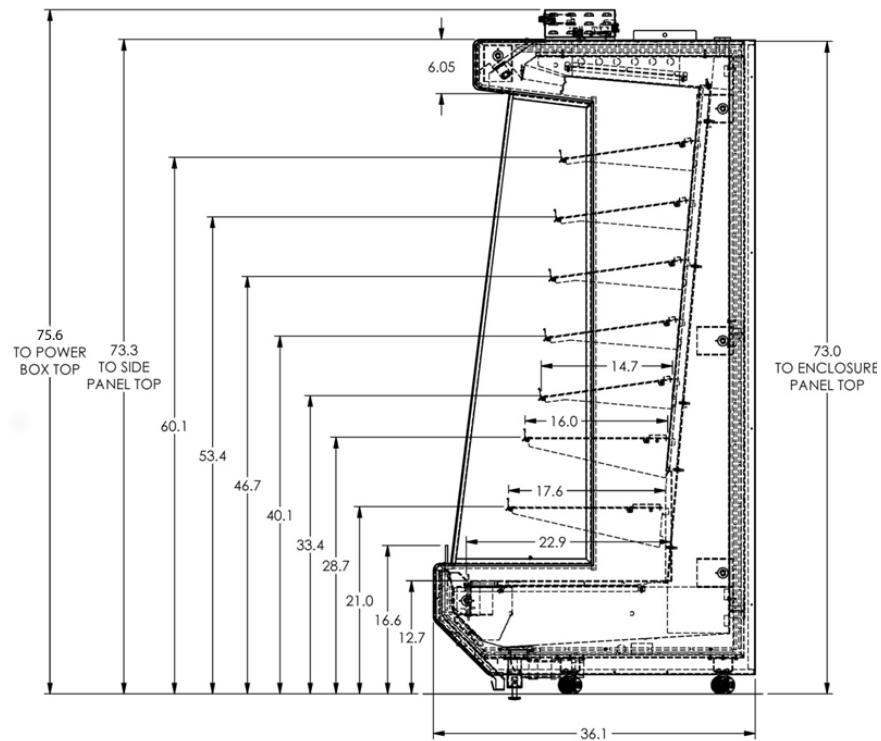
|                                                   |                          |                                                                                                                          |
|---------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Model</b>                                      |                          | RSC6 (RAC)                                                                                                               |
| <b>Product Temperature</b>                        |                          | Maintain product temperature at or below 41°F                                                                            |
| <b>Environmental Conditions</b>                   |                          | NSF/ANSI 7 Type II Standard, maximum indoor 80°F, relative humidity 54%                                                  |
| <b>External Dimensions</b>                        | <b>Width</b>             | 73.5"                                                                                                                    |
|                                                   | <b>Depth</b>             | 36.1"                                                                                                                    |
|                                                   | <b>Height</b>            | 76.6" (89.0" with Valance)                                                                                               |
| <b>Structure</b>                                  | <b>Outer / Inner Box</b> | Powder coated steel / zinc coated steel                                                                                  |
|                                                   | <b>Insulation</b>        | Rigid insulating foam                                                                                                    |
| <b>Color (Interior/Exterior)</b>                  |                          | Standard: Black/Black Optional: White/White & Black/Stainless                                                            |
| <b>Shelves</b>                                    |                          | 14 shelves (7 per side), adjustable powder coated steel frame, glass inserts standard ( <i>Optional: metal inserts</i> ) |
| <b>Shelves (Stainless Steel Version)</b>          |                          | 6 shelves (3 per side), adjustable powder coated steel frame, Standard Metal inserts with top peg rack                   |
| <b>Shelf Load Limit</b>                           |                          | 100 lbs. Per Shelf                                                                                                       |
| <b>Shelf Load Limit (Stainless Steel Version)</b> |                          | 200 lbs. Per Shelf                                                                                                       |
| <b>Electrical Parts<br/>115/60/1 (3 Amp)</b>      | <b>Fan Motor</b>         | ECM high efficiency                                                                                                      |
|                                                   | <b>Lighting</b>          | LED                                                                                                                      |
|                                                   | <b>Solenoid Valve</b>    | Hermetic direct acting solenoid valve for refrigeration (24V DC)                                                         |
| <b>Pipe Size of Connection Point</b>              | <b>Liquid Line</b>       | 3/8" OD                                                                                                                  |
|                                                   | <b>Suction Line</b>      | 5/8" OD                                                                                                                  |
| <b>Refrigerant</b>                                |                          | <b>R454C/R448A</b>                                                                                                       |
| <b>Evaporator</b>                                 |                          | Fin tube type                                                                                                            |
| <b>Expansion Valve</b>                            |                          | External equalized automatic thermal expansion valve                                                                     |
| <b>Controller</b>                                 |                          | Digital programmable controller with Modbus communication protocol                                                       |
| <b>Castors</b>                                    |                          | Four 3" Casters                                                                                                          |
| <b>Drainpipe Dimensions</b>                       |                          | ¾" PVC female drain                                                                                                      |
| <b>Thermometer</b>                                |                          | Product simulation thermometer                                                                                           |
| <b>Internal Volume</b>                            |                          | 41.46 ft <sup>3</sup>                                                                                                    |
| <b>Weight</b>                                     |                          | 598 lb.                                                                                                                  |
| <b>Noise</b>                                      |                          | Less than 65 dB at 4 ft.                                                                                                 |
| <b>Agency Approvals</b>                           |                          | <b>ETL</b><br>Conforms to UL 60335-1, 60335-2-89 Climate Class 0<br>Conforms to ANSI/NSF Std 7 Type II                   |

**NOTE:** The manufacturer reserves the right to make product improvements and change specifications without notice

## DIMENSIONS RSC 4

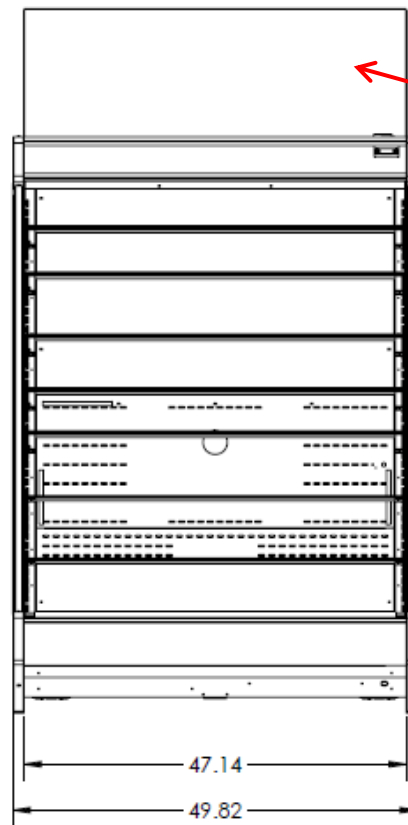


Top Valence Cover  
increases the overall  
height by 16" to 89.0"

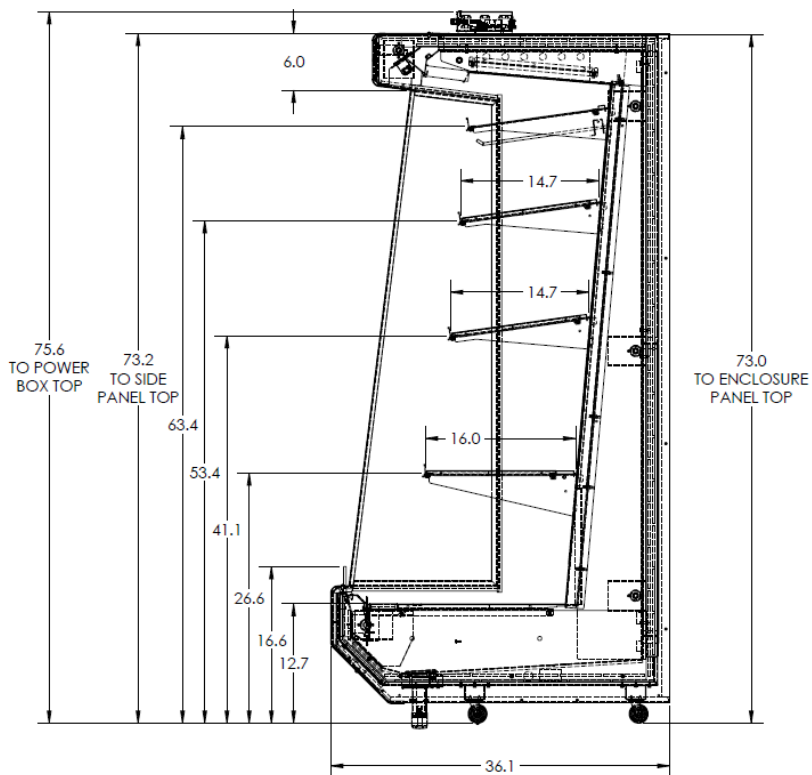




## DIMENSIONS RSC 4 (STAINLESS)



Top Valence Cover  
increases the overall  
height by 16" to 89.0"



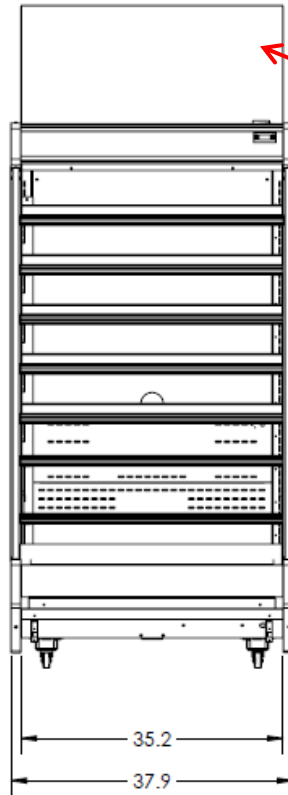


## SPECIFICATIONS RSC 4

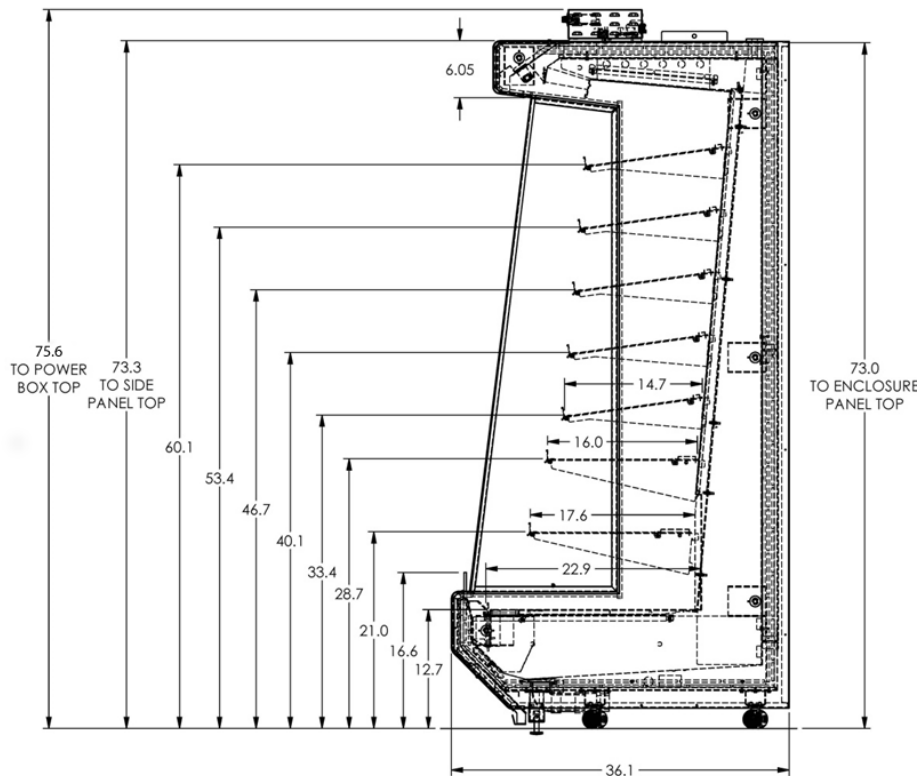
|                                                   |                          |                                                                                                            |
|---------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Model</b>                                      |                          | RSC4 (RAC)                                                                                                 |
| <b>Product Temperature</b>                        |                          | Maintain product temperature at or below 41°F                                                              |
| <b>Environmental Conditions</b>                   |                          | NSF/ANSI 7 Type II Standard, maximum indoor 80°F, relative humidity 54%                                    |
| <b>External Dimensions</b>                        | <b>Width</b>             | 49.9"                                                                                                      |
|                                                   | <b>Depth</b>             | 36.1"                                                                                                      |
|                                                   | <b>Height</b>            | 76.6" (89.0" with Valance)                                                                                 |
| <b>Structure</b>                                  | <b>Outer / Inner Box</b> | Powder coated steel / zinc coated steel                                                                    |
|                                                   | <b>Insulation</b>        | Rigid insulating foam                                                                                      |
| <b>Color (Interior/Exterior)</b>                  |                          | Standard: Black/Black Optional: White/White & Black/Stainless                                              |
| <b>Shelves</b>                                    |                          | 7 shelves, adjustable powder coated steel frame, glass inserts standard ( <i>Optional: metal inserts</i> ) |
| <b>Shelves (Stainless Steel Version)</b>          |                          | 3 shelves, adjustable powder coated steel frame, Standard Metal inserts with top peg rack                  |
| <b>Shelf Load Limit</b>                           |                          | 100 lbs. Per Shelf                                                                                         |
| <b>Shelf Load Limit (Stainless Steel Version)</b> |                          | 200 lbs. Per Shelf                                                                                         |
| <b>Electrical Parts<br/>115/60/1 (3 Amp)</b>      | <b>Fan Motor</b>         | ECM high efficiency                                                                                        |
|                                                   | <b>Lighting</b>          | LED                                                                                                        |
|                                                   | <b>Solenoid Valve</b>    | Hermetic direct acting solenoid valve for refrigeration (24V DC)                                           |
| <b>Pipe Size of Connection Point</b>              | <b>Liquid Line</b>       | 3/8" OD                                                                                                    |
|                                                   | <b>Suction Line</b>      | 5/8" OD                                                                                                    |
| <b>Refrigerant</b>                                |                          | R454C/R448A                                                                                                |
| <b>Evaporator</b>                                 |                          | Fin tube type                                                                                              |
| <b>Expansion Valve</b>                            |                          | External equalized automatic thermal expansion valve                                                       |
| <b>Controller</b>                                 |                          | Digital programmable controller with Modbus communication protocol                                         |
| <b>Casters</b>                                    |                          | Four 3" Casters                                                                                            |
| <b>Drainpipe Dimensions</b>                       |                          | ¾" PVC female drain                                                                                        |
| <b>Thermometer</b>                                |                          | Product simulation thermometer                                                                             |
| <b>Internal Volume</b>                            |                          | 27.75 ft <sup>3</sup>                                                                                      |
| <b>Weight</b>                                     |                          | 405 lb.                                                                                                    |
| <b>Noise</b>                                      |                          | Less than 65 dB at 4 ft.                                                                                   |
| <b>Agency Approvals</b>                           |                          | ETL<br>Conforms to UL 60335-1, 60335-2-89 Climate Class 0<br>Conforms to ANSI/NSF Std 7 Type II            |

**NOTE:** The manufacturer reserves the right to make product improvements and change specifications without notice

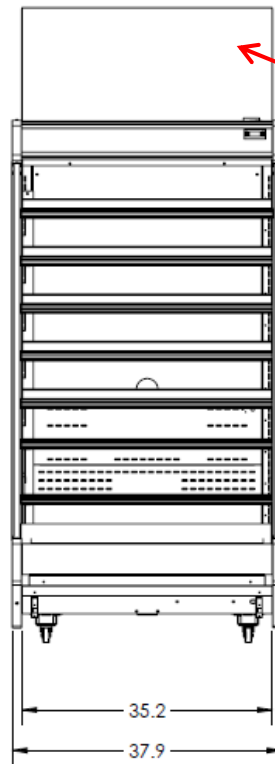
## DIMENSIONS RSC 3



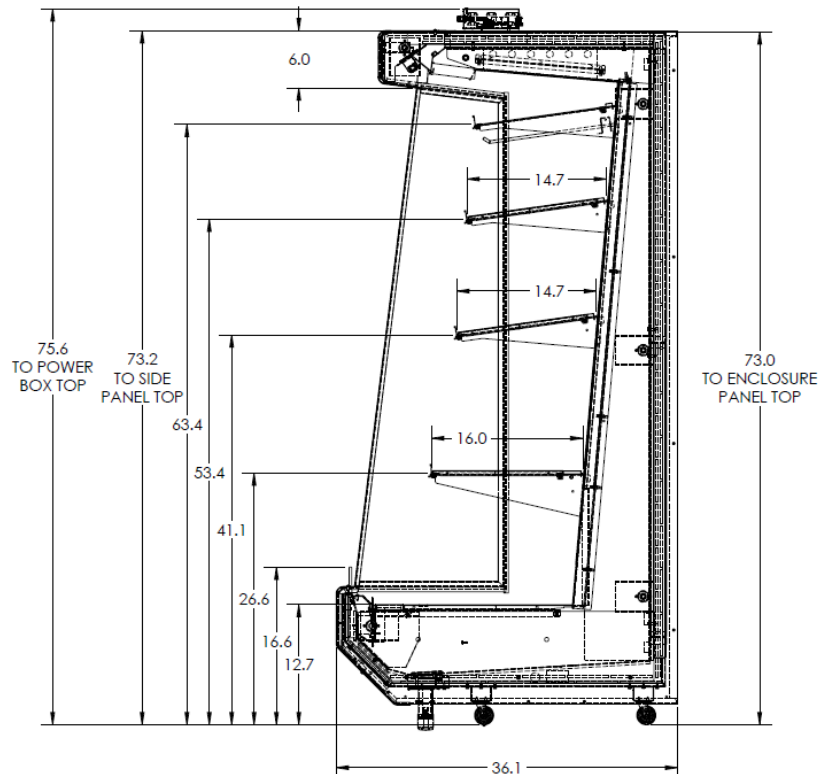
Top Valence Cover  
increases the overall  
height by 16" to 89.0"



## DIMENSIONS RSC 3 (STAINLESS)



Top Valence Cover  
increases the overall  
height by 16" to 89.0"





## SPECIFICATIONS RSC 3

|                                                   |                          |                                                                                                            |
|---------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Model</b>                                      |                          | RSC3 (RAC)                                                                                                 |
| <b>Product Temperature</b>                        |                          | Maintain product temperature at or below 41°F                                                              |
| <b>Environmental Conditions</b>                   |                          | NSF/ANSI 7 Type II Standard, maximum indoor 80°F, relative humidity 54%                                    |
| <b>External Dimensions</b>                        | <b>Width</b>             | 37.9"                                                                                                      |
|                                                   | <b>Depth</b>             | 36.1"                                                                                                      |
|                                                   | <b>Height</b>            | 76.6" (89.0" with Valance)                                                                                 |
| <b>Structure</b>                                  | <b>Outer / Inner Box</b> | Powder coated steel / zinc coated steel                                                                    |
|                                                   | <b>Insulation</b>        | Rigid insulating foam                                                                                      |
| <b>Color (Interior/Exterior)</b>                  |                          | Standard: Black/Black Optional: White/White & Black/Stainless                                              |
| <b>Shelves</b>                                    |                          | 7 shelves, adjustable powder coated steel frame, glass inserts standard ( <i>Optional: metal inserts</i> ) |
| <b>Shelves (Stainless Steel Version)</b>          |                          | 3 shelves, adjustable powder coated steel frame, Standard Metal inserts with top peg rack                  |
| <b>Shelf Load Limit</b>                           |                          | 100 lbs. Per Shelf                                                                                         |
| <b>Shelf Load Limit (Stainless Steel Version)</b> |                          | 200 lbs. Per Shelf                                                                                         |
| <b>Electrical Parts<br/>115/60/1 (3 Amp)</b>      | <b>Fan Motor</b>         | ECM high efficiency                                                                                        |
|                                                   | <b>Lighting</b>          | LED                                                                                                        |
|                                                   | <b>Solenoid Valve</b>    | Hermetic direct acting solenoid valve for refrigeration (24V DC)                                           |
| <b>Pipe Size of Connection Point</b>              | <b>Liquid Line</b>       | 3/8" OD                                                                                                    |
|                                                   | <b>Suction Line</b>      | 5/8" OD                                                                                                    |
| <b>Refrigerant</b>                                |                          | R454C/R448A                                                                                                |
| <b>Evaporator</b>                                 |                          | Fin tube type                                                                                              |
| <b>Expansion Valve</b>                            |                          | External equalized automatic thermal expansion valve                                                       |
| <b>Controller</b>                                 |                          | Digital programmable controller with Modbus communication protocol                                         |
| <b>Casters</b>                                    |                          | Four 3" Casters                                                                                            |
| <b>Drainpipe Dimensions</b>                       |                          | ¾" PVC female drain                                                                                        |
| <b>Thermometer</b>                                |                          | Product simulation thermometer                                                                             |
| <b>Internal Volume</b>                            |                          | 20.73 ft <sup>3</sup>                                                                                      |
| <b>Weight</b>                                     |                          | 368 lb.                                                                                                    |
| <b>Noise</b>                                      |                          | Less than 65 dB at 4 ft.                                                                                   |
| <b>Agency Approvals</b>                           |                          | ETL<br>Conforms to UL 60335-1, 60335-2-89 Climate Class 0<br>Conforms to ANSI/NSF Std 7 Type II            |

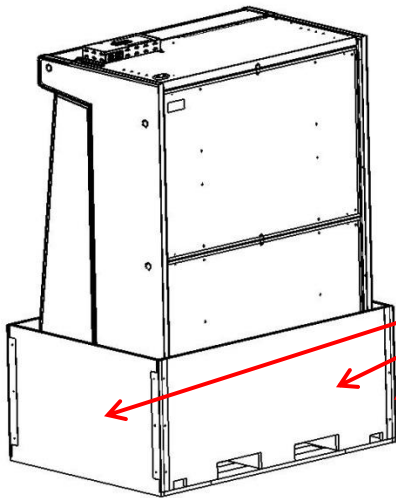
**NOTE:** The manufacturer reserves the right to make product improvements and change specifications without notice



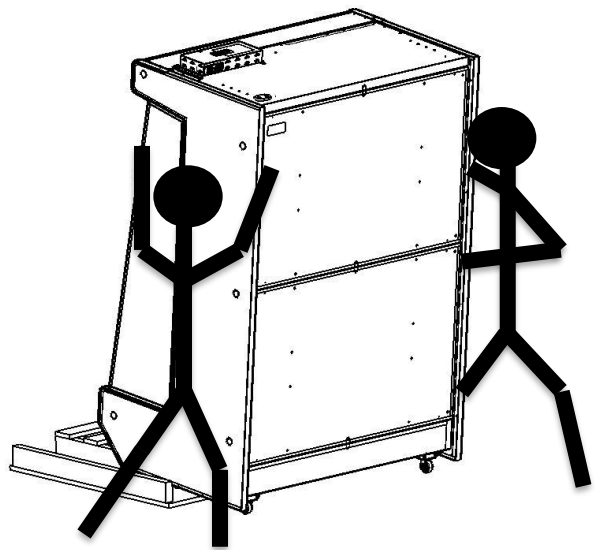
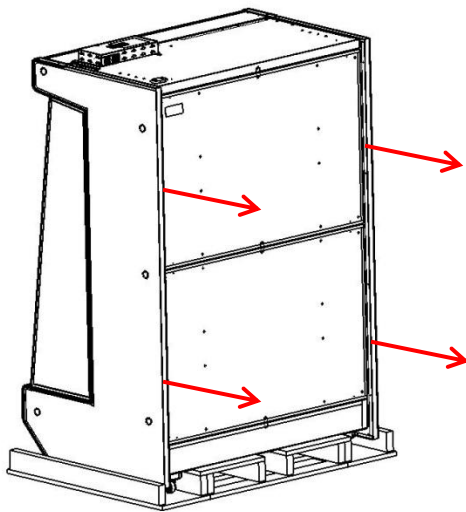
## **SAFETY PRECAUTIONS**

- Electrical service and installation should only be performed by qualified, licensed Electricians.
- Mechanical service and installation should only be performed by qualified, licensed Service Technicians.
- Use adequate equipment when moving the Refrigerated Showcase (RSC).
- Test for proper grounding to reduce the risk of electrical shock and fire.
- High voltage is present in the RSC. Disconnect power before servicing.
- Use only fully trained service technicians for power-on servicing.
- Use only authorized replacement parts.
- Be aware of inherent dangers in rocking or tipping the RSC.
- Lines are pressurized with nitrogen. Use caution when opening lines.
- Use refrigeration lines with adequate wall thickness to handle refrigeration pressures.
- Replacement fuse must have identical ratings as the fuse being replaced.
- If glass cracks or breaks, discard food items, and thoroughly remove all glass fragments.
- Do not place objects on top of the RSC that can fall or spill.
- The RSC is designed for indoor use only, in a controlled environment that typically does not exceed 80°F (27°C). Check airflow as described in this document to ensure food is maintained at required temperatures.
- WARNING: Keep clear of obstruction all ventilation openings in the appliance enclosure or in the structure for building-in.
- WARNING: Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- WARNING: Do not damage the refrigerating circuit.
- WARNING: Do not use electrical appliances inside the food/ice storage compartments
- WARNING: Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- The display case is to be installed in accordance with the Safety Standard for Refrigeration Systems, ANSI/ASHRAE 15. In addition, the display case shall not be installed in public corridors or lobbies.

## UNPACKING



- 1) Remove the crating materials from the unit (shipping straps, corner brackets, wood panels & cardboard corner posts)



- 2) Slide the unit **REARWARDS** off pallet onto dolly(s) or loading mules. Note: **DO NOT** use the unit casters to move the unit anywhere other than in its final installation location.



## **INITIAL SET-UP**

The Model RSC Remote Refrigerated Showcase, when properly installed and maintained, is designed to provide years of trouble-free operation. This Operation & Installation Manual contains information necessary for proper installation, maintenance and cleaning of the unit.

If connecting 2 or more RSC units together, refer to separate RSC connection instructions provided with these units.

It is the responsibility of the installer to ensure the unit is installed and working properly. The following instructions provide step-by-step set-up, piping, condensate drain connections, wiring, start-up, performance and maintenance guidelines.

**For Parts or Technical Service, please call: 1-800-344-7216 or FAX: 1-800-541-5684 or email: [customerservice@vendoco.com](mailto:customerservice@vendoco.com)**

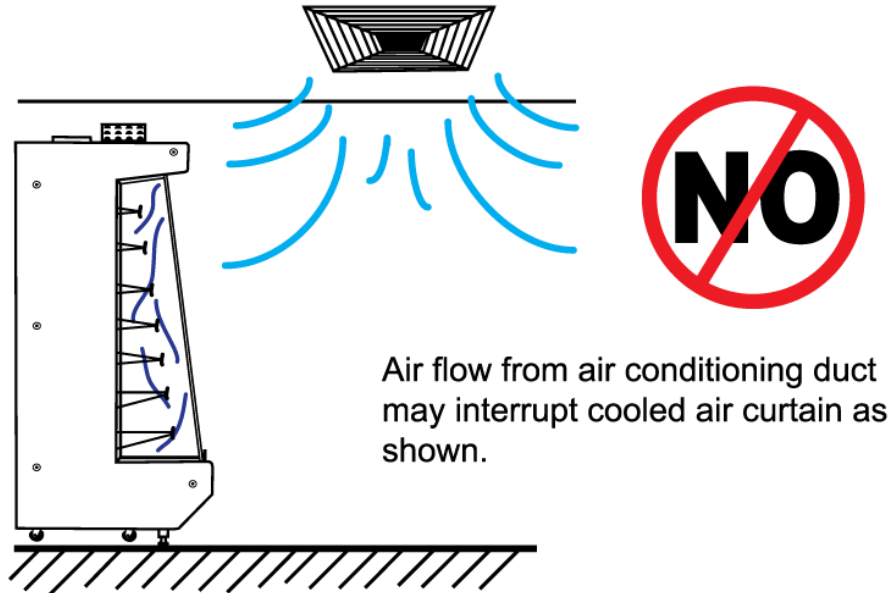
**Additional reference manuals can be obtained at [www.vendoco.com](http://www.vendoco.com)**

## **CABINET SET-UP**

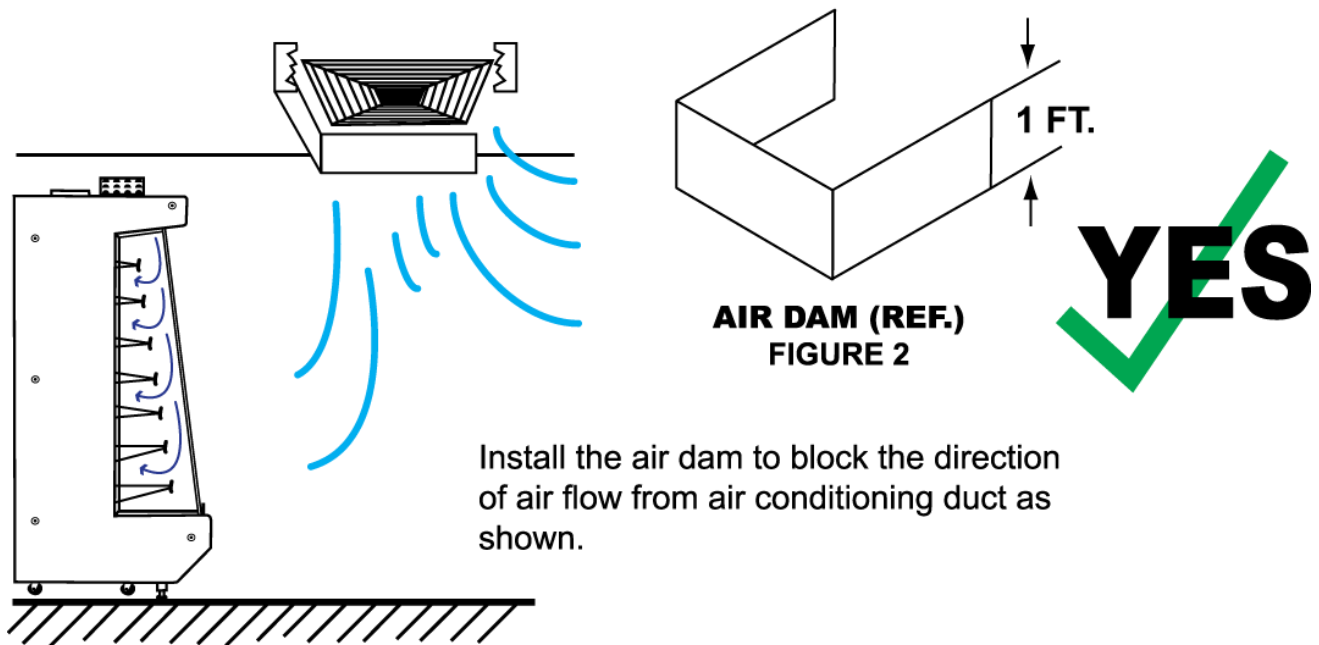
Step 1: Choose a location for your new refrigerated display case. Avoid placing the cabinet near equipment that releases heat. Avoid direct sunlight. To protect all electrical parts, do not place the cabinet where it will be subjected to rain, splashed liquid, or excessive humidity. **Do not install cases with R454C in public corridors or lobbies.**

Step 2: Check the airflow around the cabinet, since strong airflow may displace the cooled air in the Showcase. Place the cabinet where the airflow speed is less than 50 ft/min. Also, avoid areas subject to strong winds (see figures 1-7).

## AIR CONDITIONING DUCT (CEILING TYPE)



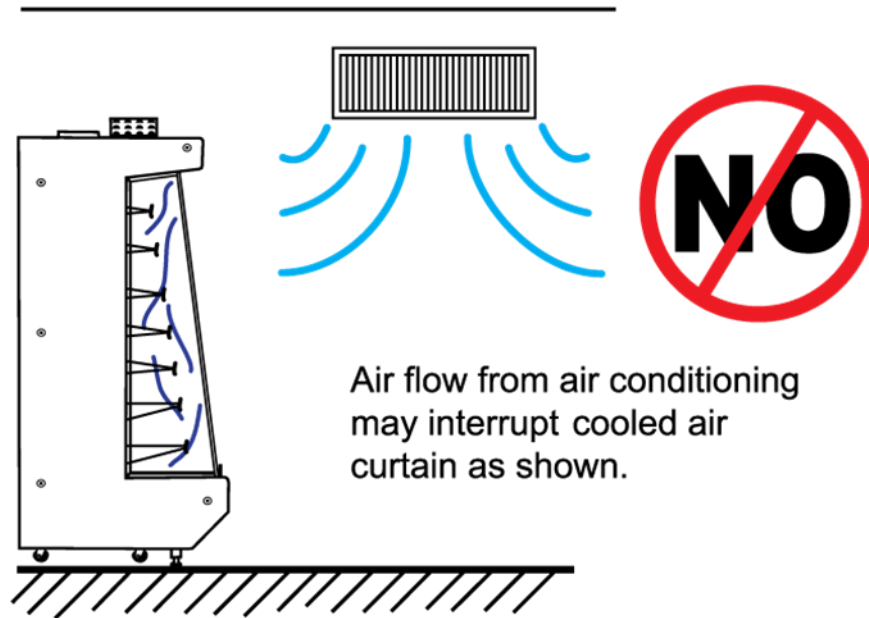
**FIGURE 1**



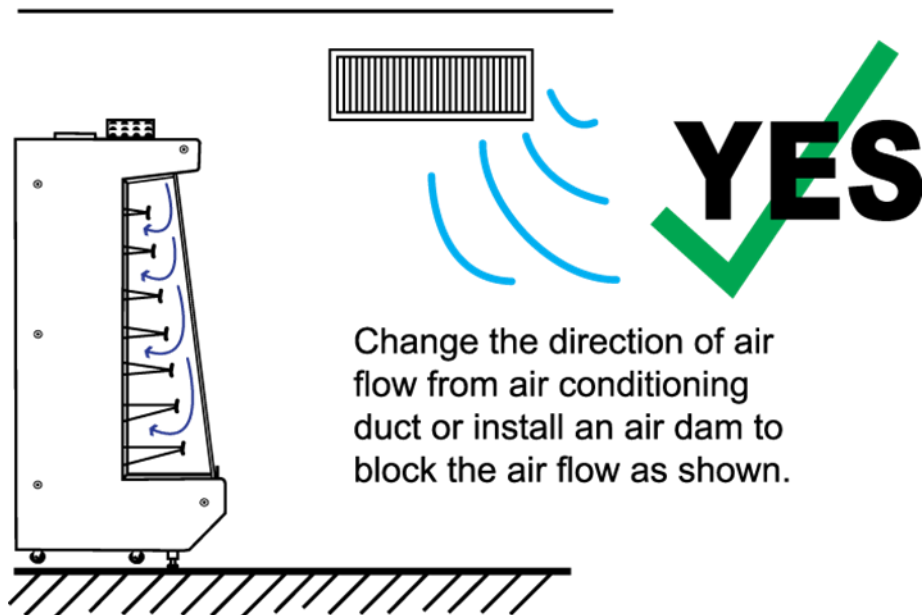
**AIR DAM (REF.)  
FIGURE 2**

**FIGURE 3**

## AIR CONDITIONING DUCT (WALL TYPE)

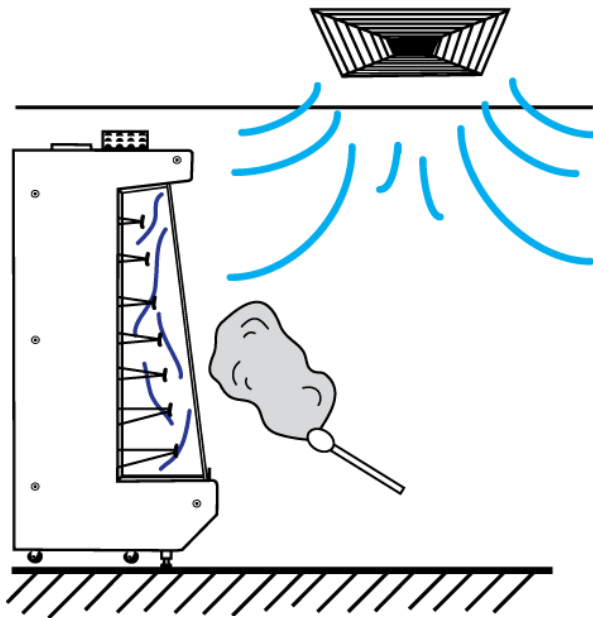


**FIGURE 4**



**FIGURE 5**

## TO CHECK AIR CURTAIN



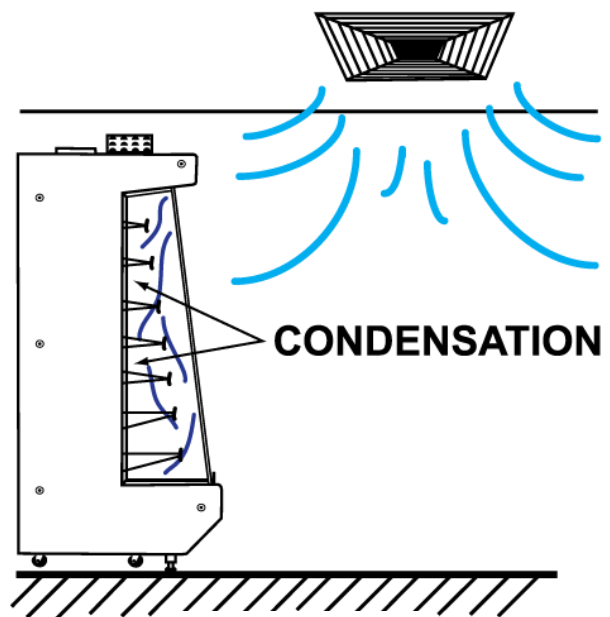
**FIGURE 6**

Hold smoke stick 1 foot from front opening of showcase as shown.

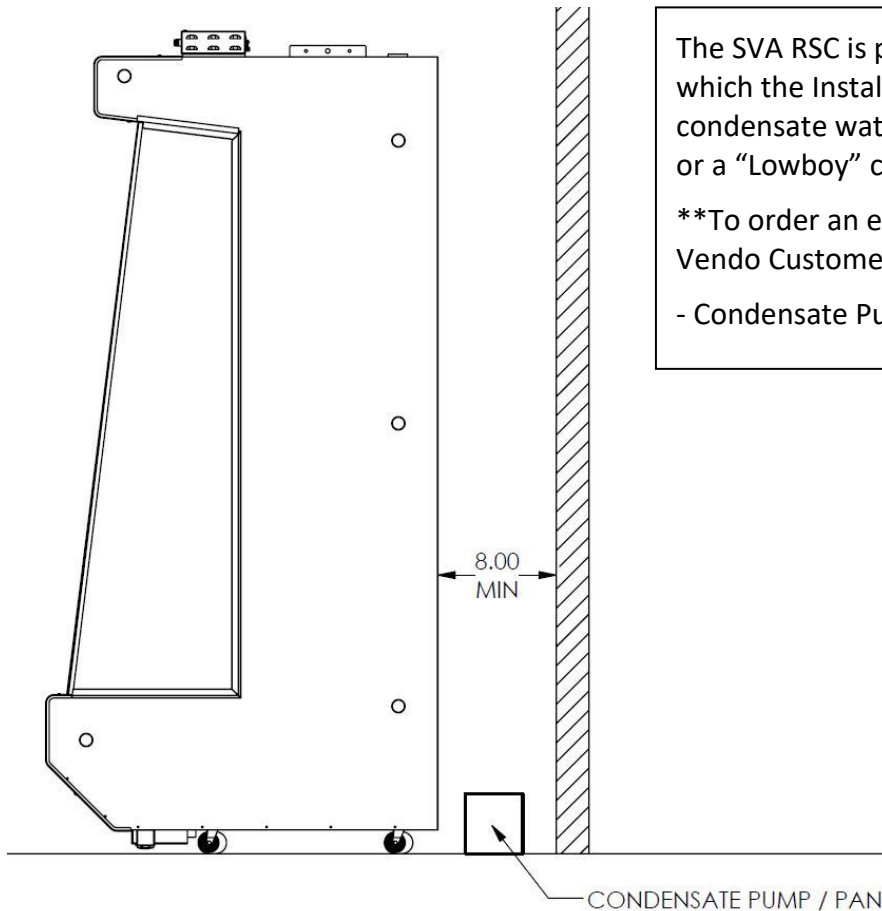
If smoke travels upward, then the air curtain is present.

If smoke travels into showcase the air curtain is not functioning correctly.

Another indication of a non-functional air curtain is the presence of condensation on the inside back surface of the showcase unit as shown.



**FIGURE 7**

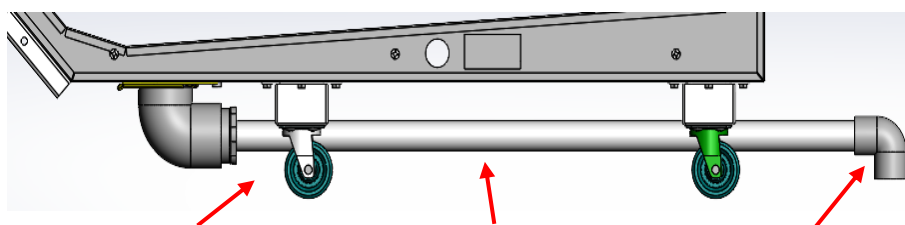


The SVA RSC is provided with a  $\frac{3}{4}$ " female PVC drain which the Installing Contractor should utilize to pipe the condensate water to the building's existing drain system, or a "Lowboy" condensate pump.

\*\*To order an electric sump pump, contact Sanden Vendo Customer Service at 800-344-7216

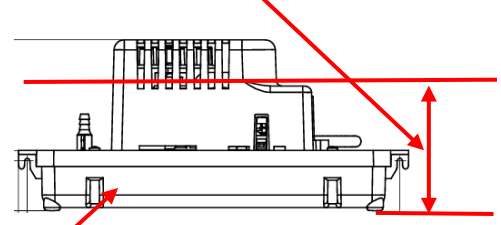
- Condensate Pump (SVA Number [1231359](#))

Connect  $\frac{3}{4}$ " slip-fit drain to a "low boy" sump pump or floor drain.



Drain connection. Drain pipe (supplied by installer).  $\frac{3}{4}$ " street 90.

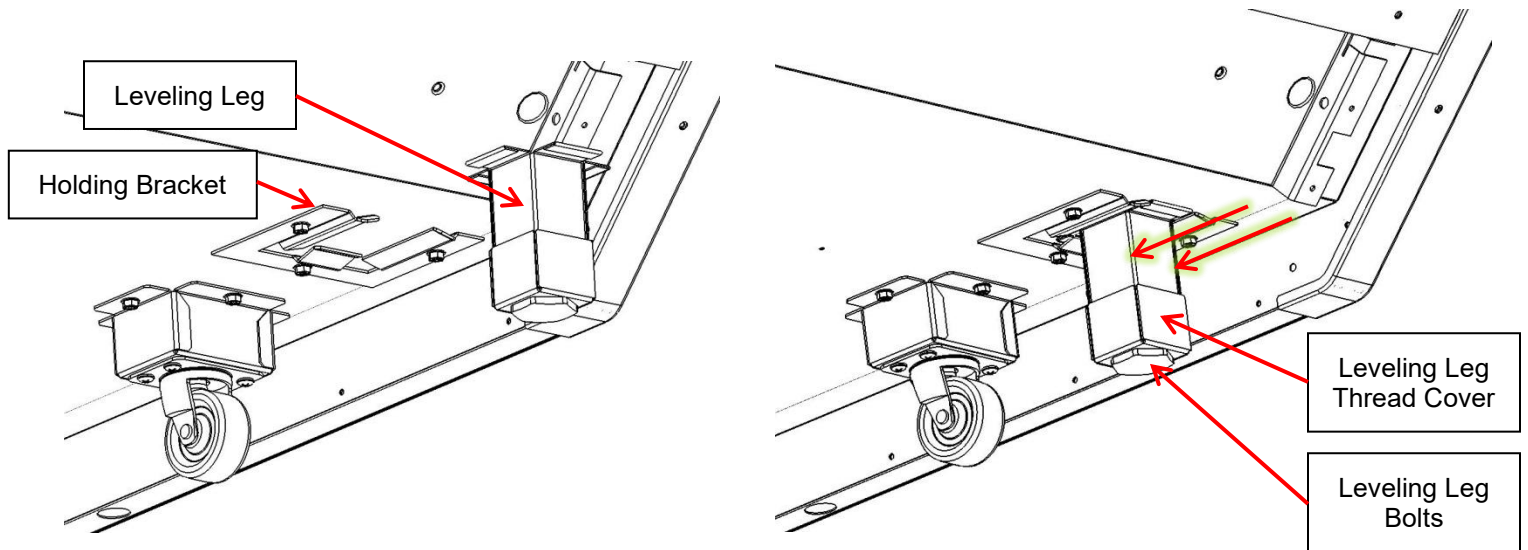
Drain hose maximum 5 inches above the floor.



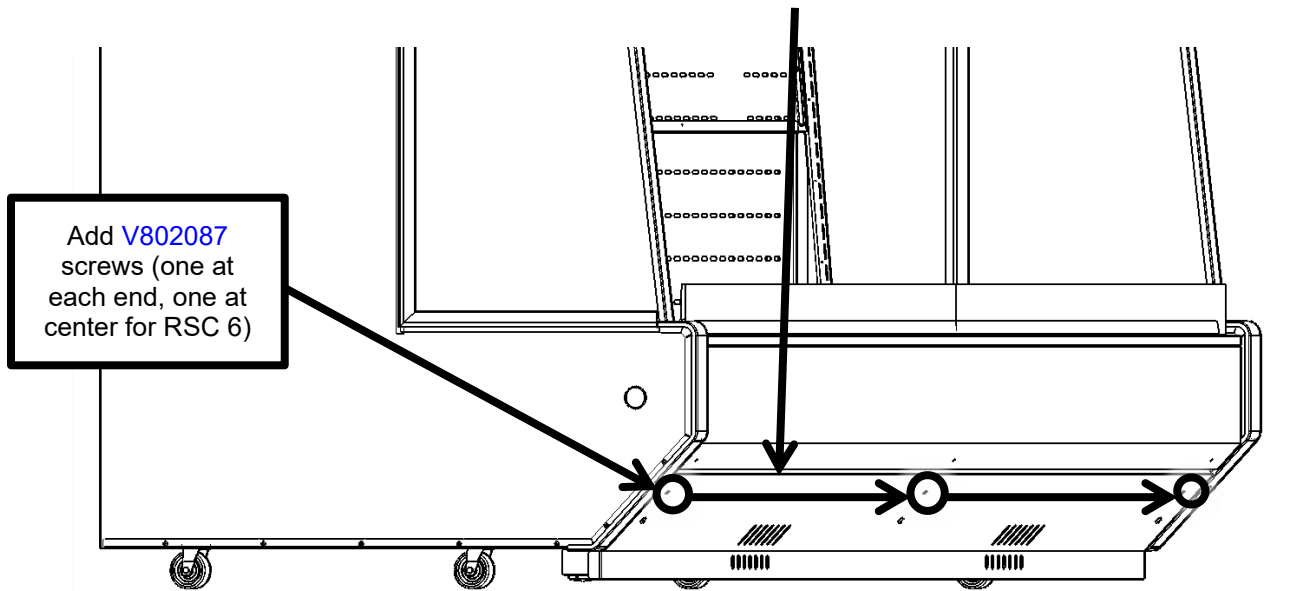
"Low Boy" condensate pump, SVA part # [1231359](#).

**Important:** Pour about 1 gallon of water into the RSC drain to verify there are no leaks, and the drain system or sump pump is operating correctly.

Install the Leveling Legs by sliding the leg into the pre-installed Holding Bracket. Begin installation by hand, and finish with a soft mallet. Ensure unit is level by lowering and adjusting Leveling Leg Bolts. Ensure the RSC does not roll and push down Thread Cover.



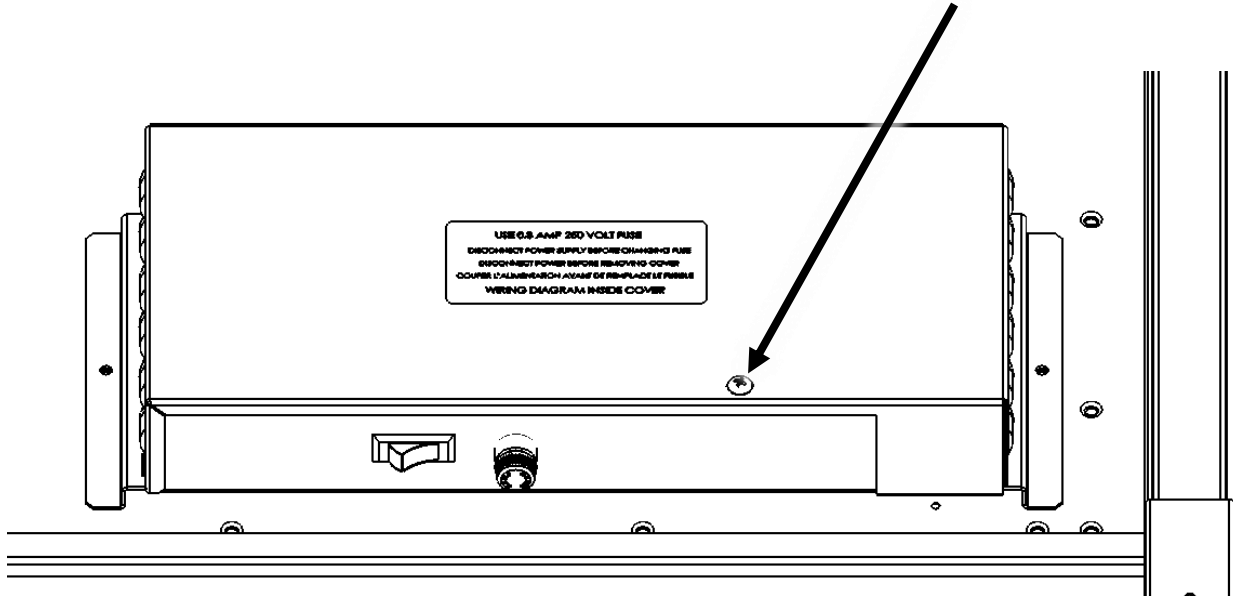
Install the lower kick panel.



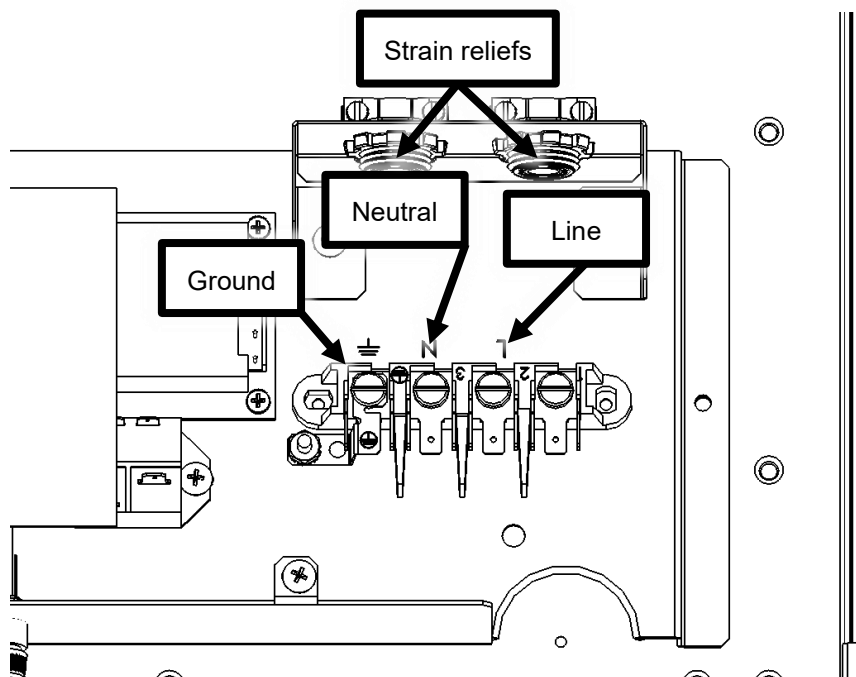
## ELECTRICAL INSTALLATION

Have a qualified electrician remove the electrical box cover and connect electrical service (115 VAC, 3-amp 1 phase, copper conductors only) through one of the strain reliefs to the line, neutral and ground connections on the terminal block according to the labels stamped in the metal.

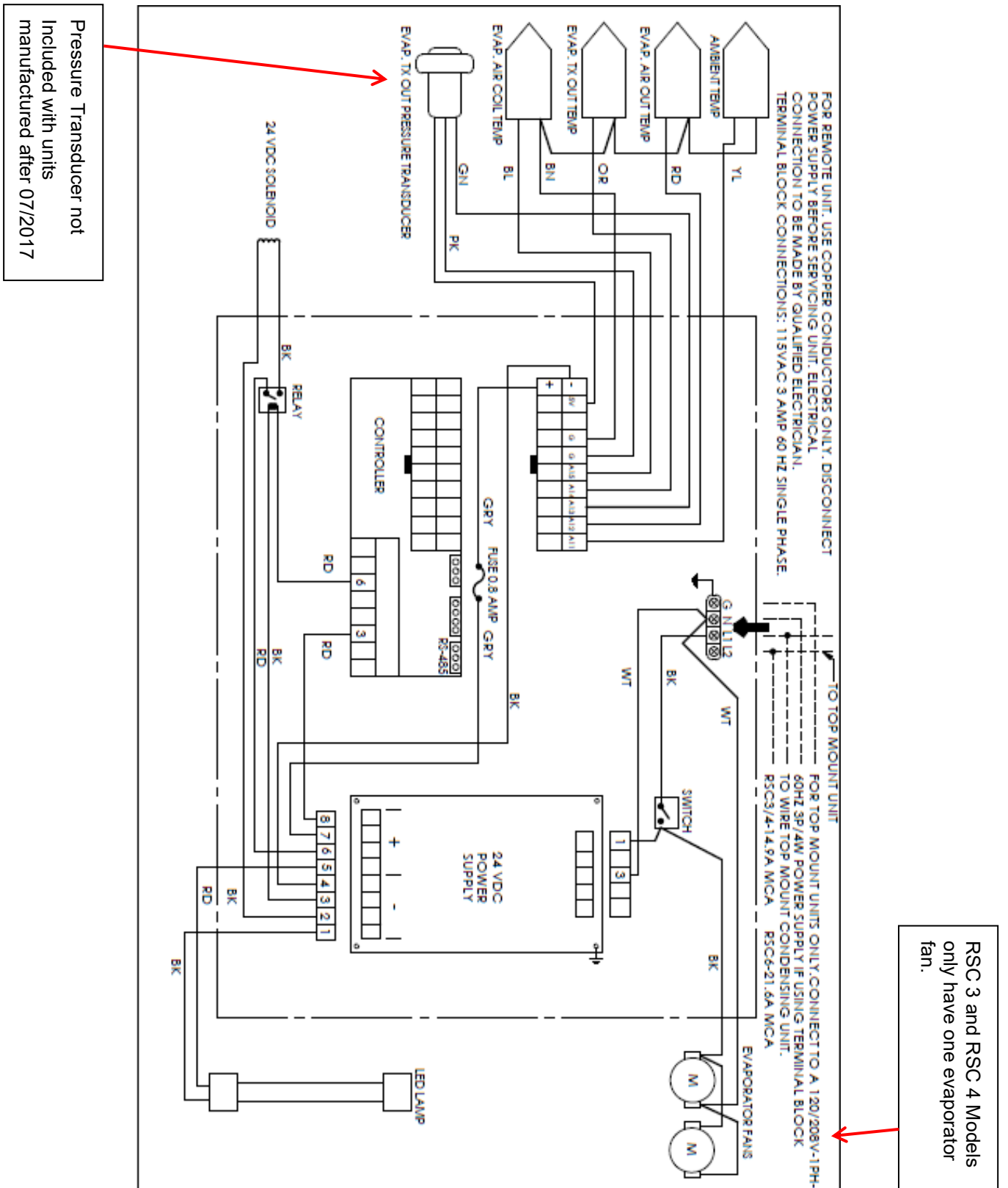
Remove cover from power control box by removing top screw.



Secure the power cable in the strain relief. Reinstall the electrical box cover.



## Wiring Diagram RSC Remote



## REFRIGERATION INSTALLATION

After the RSC unit is in its final location and leveled, have a qualified refrigeration technician connect the condensing unit to the RSC's refrigeration connection lines.

- 1) Install in accordance with the Safety Standard for Refrigeration Systems, ANSI/ASHRAE 15.
- 2) Utilizing proper refrigeration practices connect the refrigerant line set to the RSC stub outs using long radius fittings. Trim the line set length to keep from creating oil traps in the lines.



- 3) Connect line set to the remote mounted condensing unit.
- 4) Turn on power to the RSC to open liquid line solenoid, ALL brazing should be done under a low pressure nitrogen purge.
- 5) After brazing, pressurize system with nitrogen and check brazed joints for leaks.
- 6) After leak checking, release the nitrogen and evacuate the system to 400 microns or below. Verify the system holds this vacuum before weighing in the refrigerant charge.
- 7) Break vacuum with liquid refrigerant through the HIGH side access port at the condensing unit.
- 8) Turn power on to the condensing unit and continue charging through the LOW side port using a metering device such as a "Quik Charge" or Uniweld's "Vapor Vue". Stop charging when sight glass clears and check for required superheat of 10-12 degrees F.
- 9) Weigh in an additional two (2) pounds of refrigerant to insure proper sub cooling.

- Evaporator superheat 10 to 12°F. System operates with a controller set point and solenoid valve (pump down). Condensing unit must have low pressure switch.

- 6 ft model: 11,800 BTU/hr., evaporating temp: 15°F @ 80°F dry bulb, 68°F wet bulb

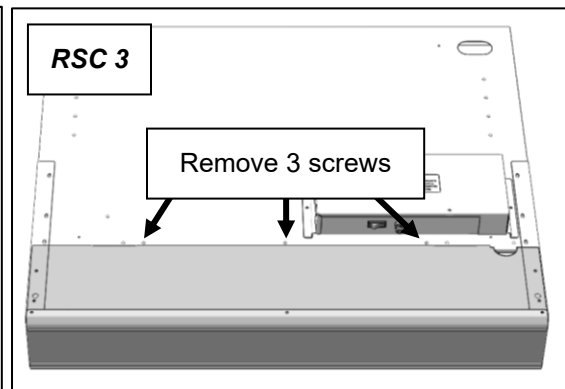
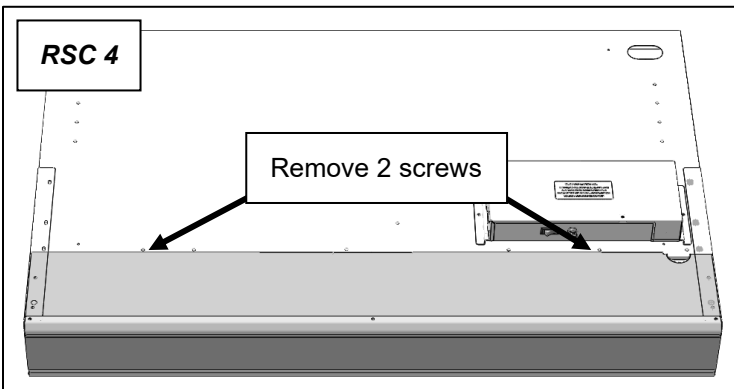
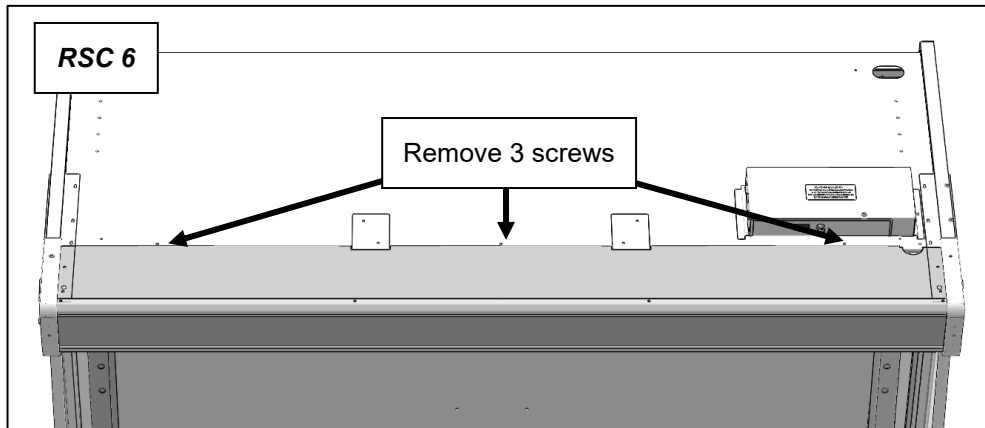
- 3 & 4 ft models: 6,800 BTU/hr. evaporating temp: 15°F @ 80°F dry bulb, 68°F wet bulb
- Turn on the condensing unit and the RSC. Insure the lights and fans operate. The control system is factory preset and does not need adjustment. Allow the RSC to run for 1 hour and check the temperature on the high quality dial thermometer to insure the case is below 41°F.
- Air curtain disturbance must be checked, (see figures 1-7).

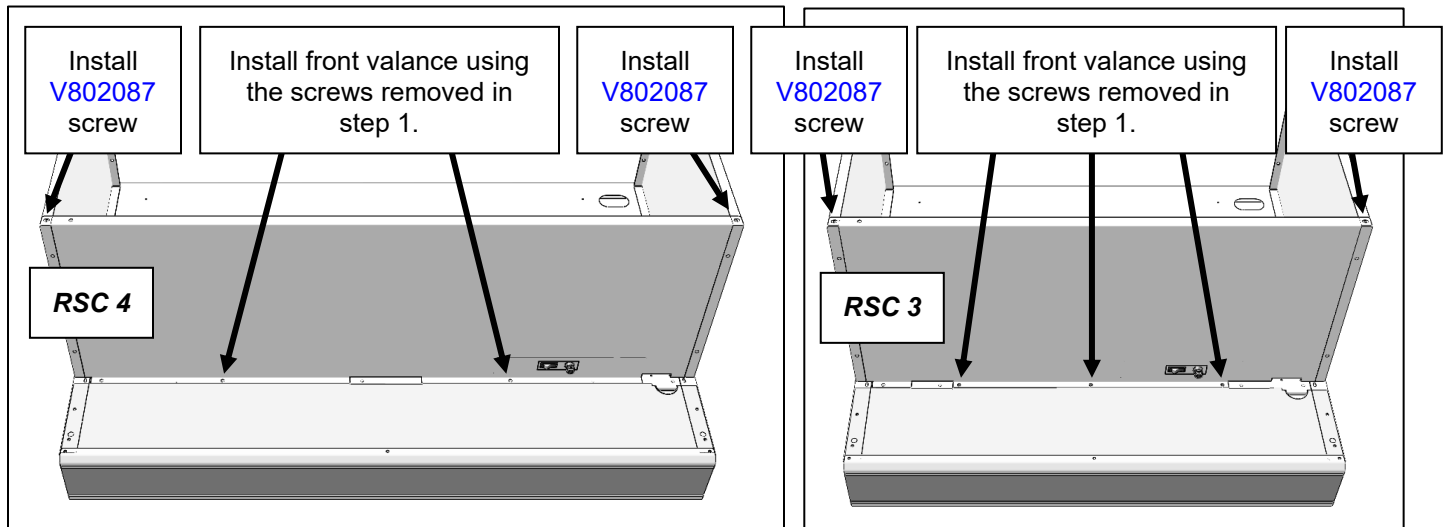
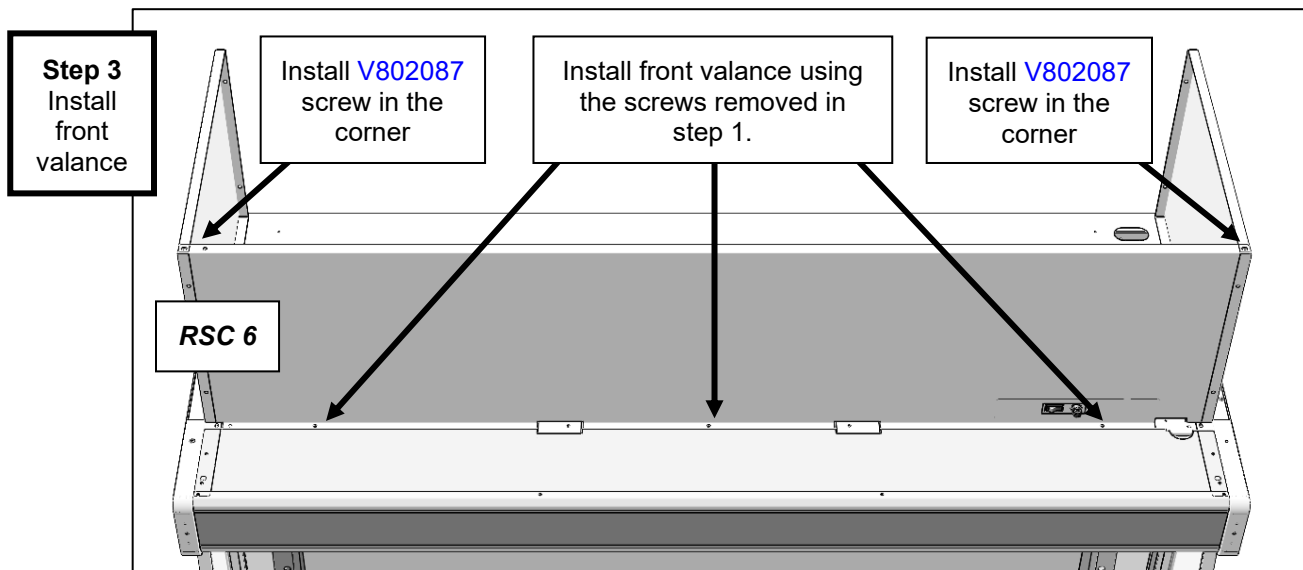
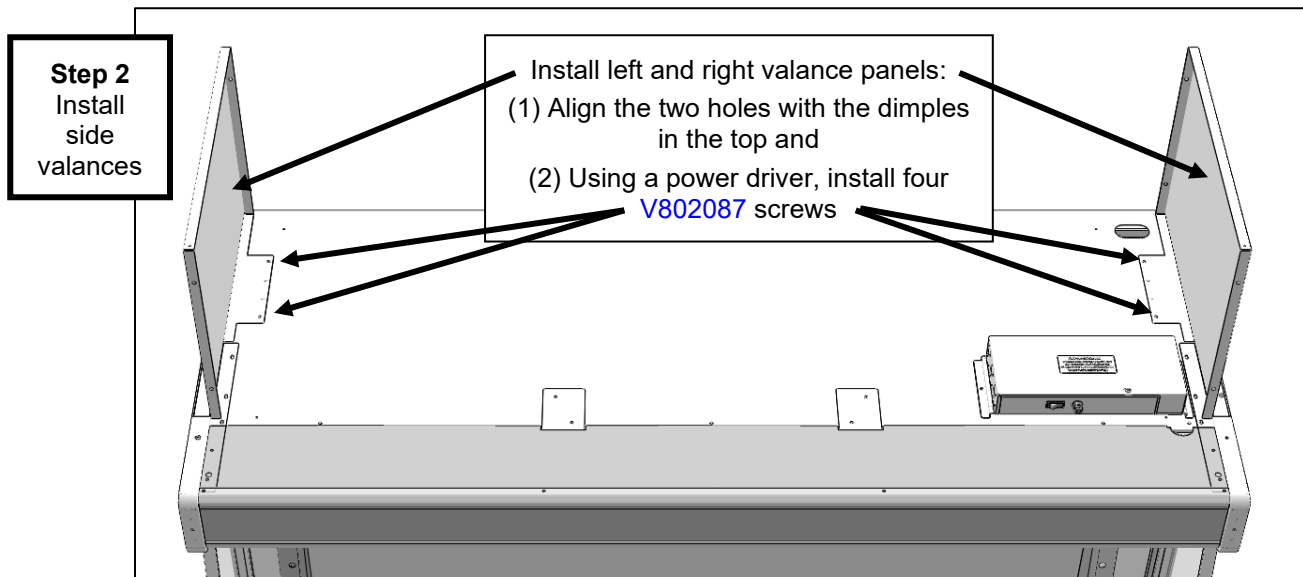
## VALANCE INSTALLATION INSTRUCTIONS

### Parts List

| Quantity | Part Number                                                                                                                     | Description    |
|----------|---------------------------------------------------------------------------------------------------------------------------------|----------------|
| 1        | Black: 1240129 (RSC3) or 1240137 (RSC4)<br>Or 1240145 (RSC6) or<br>White: 1240196 (RSC3) or 1240218 (RSC4)<br>Or 1240226 (RSC6) | Valance, Front |
| 1        | Black: 1240188 or White: 1240242                                                                                                | Valance, Right |
| 1        | Black: 1240153 or White: 1240234                                                                                                | Valance, Left  |
| 7        | V802087                                                                                                                         | Screw          |

**Step 1**  
Remove  
screws







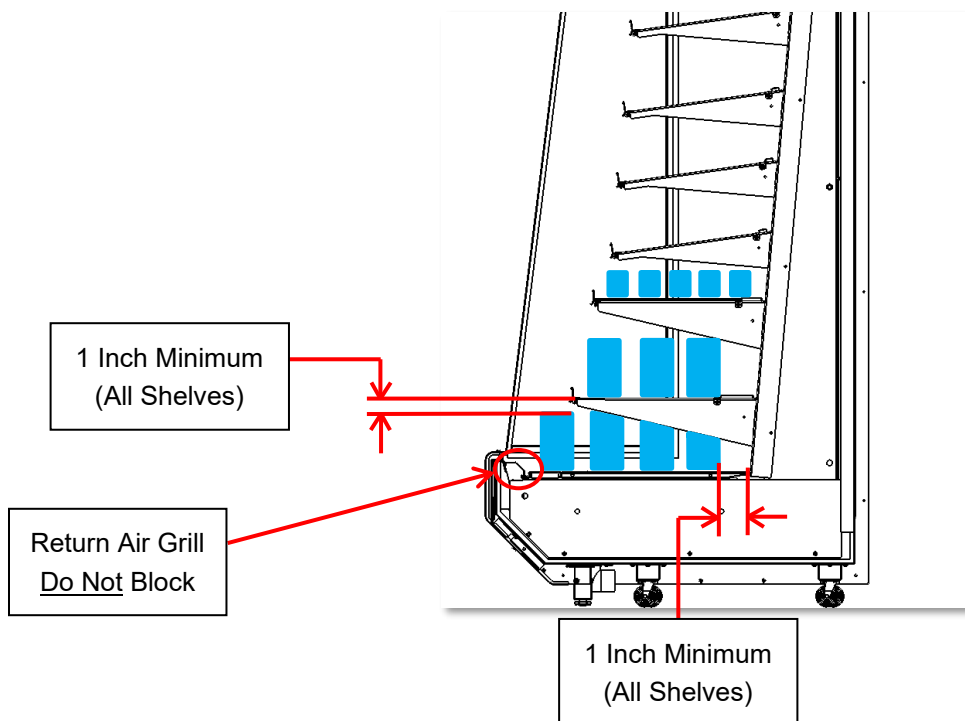
## **START-UP & OPERATING INFORMATION**

### **START-UP INFORMATION AND PERFORMANCE EVALUATION**

- Step 1: Turn on power switch located on the front of the power control box. Start up the condensing unit per manufacturers guidelines. Check to ensure evaporator fans are operational, and the LED lighting is on.
- Step 2: While the condensing unit and evaporator fans are running, verify that there is a flow of cold air from the honeycomb, located at the top of the cabinet.
- Step 3: Observing the controller display, monitor the cabinet temperature, and verify that unit cools to 40°F within 20-30 minutes.
- Step 5: Verify that all access-cover panels have been replaced, and the cabinet is ready to be loaded by store personnel.

### **OPERATING GUIDELINES**

1. For best results, pre-cool all products before stocking the display case.
2. Stock products only after the cabinet has cooled.
3. When loading the cabinet, do not place merchandise over the grill located in the front of the lower deck plate as this will disrupt the air curtain. (Reference Below)
4. Allow at least 1" between the upper surface of the displayed product and the shelf directly above it, and 1" from the rear wall. (Reference Below)



5. For proper temperature sensing, do not put product against the temperature sensor on the back wall.
6. Do not remove the glass side panels during operation.

## CONTROLLER OPERATION AND ERROR CODES

### RSC controller button functions:

- F1** - Scroll Up
- F2** - Return / Esc
- F3** - Scroll Down
- F4** - Enter / Set



**To Enter Reading Mode:** Press F4 – The Display will read “Ai” – use buttons to navigate

| Level 1 | Err # | Description                                                  |
|---------|-------|--------------------------------------------------------------|
| tEnP    |       | Display Case Ambient Temperature                             |
| COIL    |       | Display Coil Temperature                                     |
| EU0P    |       | Display Evaporator Outlet Pressure Sensor                    |
| EU0t    |       | Display Evaporator Outlet Temp                               |
| EUA0    |       | Display Air Out Temperature                                  |
| SuHt    |       | SuperHeat = EU0P - COIL                                      |
| AL      |       | Alarm - if present, will override the message on the display |
|         | Err 1 | Case Ambient Temperature Sensor is disconnected or faulty    |
|         | Err 2 | Air Out Temperature Sensor is disconnected or faulty         |
|         | Err 3 | Pressure Transducer is faulty or not connected               |
|         | Err 4 | Evaporator outlet temp. Sensor is disconnected or faulty     |
|         | Err 5 | Coil Temperature Sensor is disconnected or faulty            |
|         | Err 6 | Case Ambient Temperature Sensor is out of range              |
|         | Err 7 | Coil Temperature Sensor is out of range                      |

**To Check the Firmware Version:** Press F2 and hold for 5 seconds – The version will show.

## END OF LIFE / DISPOSAL

- To protect the environment please recycle materials where possible.
- Remove / reclaim refrigerant gas and compression oil in accordance with applicable laws and/or regulations. Examples include US EPA 40CFR Part 82, Subpart F.
- Do not dispose the Refrigerated Showcase with other domestic waste. These units contain electrical and electronic materials that may need to be processed in accordance with local laws and/or regulations. Examples include European Directive WEEE 2002/96/CE
- Recycling this product contributes towards reducing the need for new materials and reducing the accumulation of waste.
- The thermal insulation contains a flammable blowing agent, which requires specific disposal instructions to prevent fire hazards and comply with environmental regulations. Consult local waste management authority, city/county regulations, or the waste company for specific instructions, as disposal requirements for these materials can vary by location.

## GENERAL MAINTENANCE

### CLEANING THE HONEYCOMB

To maintain peak operating performance, remove the honeycomb (as shown below) and rinse it with clean water to remove dust. Under normal conditions, inspect and clean every 90 days.

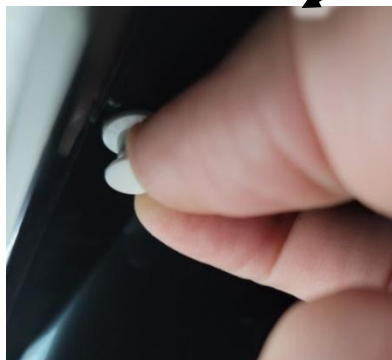


**Step 1:** Remove Honeycomb once every 90 days from upper section behind lights. Take note of how the Honeycomb is installed prior to removal. To remove the Honeycomb, remove the Honeycomb Support Bracket.

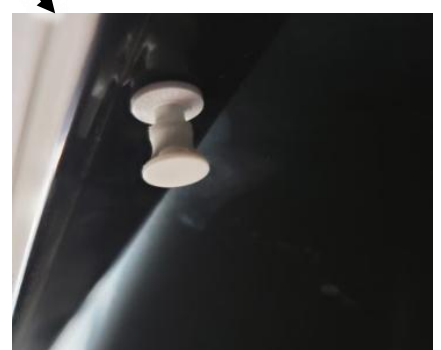
**Step 2:** Remove the Honeycomb Support Bracket by pulling down on the plastic rivets behind it. The Bracket and the Honeycomb should fall free.



Locate Rivets  
Behind Honeycomb



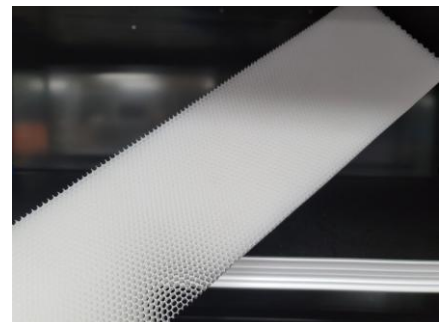
Grab and pull down.



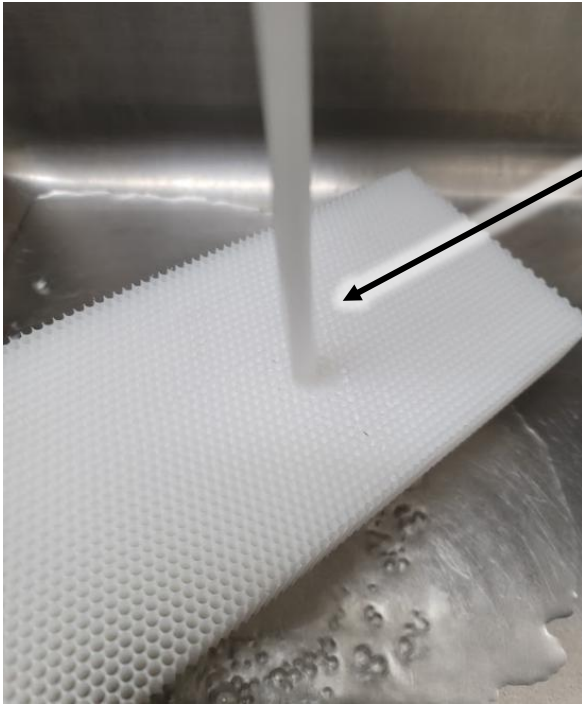
Rivet Unlocked



Honeycomb Support Bracket



Honeycomb



**Step 3:** Wash the Honeycomb with water only to remove dust and dirt. Shake the water from the filter and wipe off with a paper towel. Recommended sinks for cleaning- Mop sink as a primary recommendation, wash bay in 3-comp sink secondary option- must clean and sanitize sink before and after use.

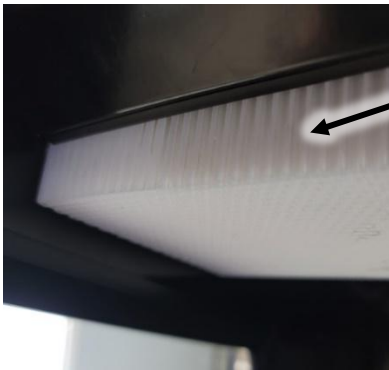
**Note:** The Honeycomb does not need to be completely dry before it is placed back in the RSC Showcase.

**Step 4:** Replace the Honeycomb Support Bracket prior to inserting the Honeycomb back into the unit by reversing the process from **Step 2**.

**Step 5:** Evenly wedge the Honeycomb in-between RSC unit and the Honeycomb Support Bracket.

**Note:** There will be some resistance and the Honeycomb will be squeezed slightly, work from one end to the other.

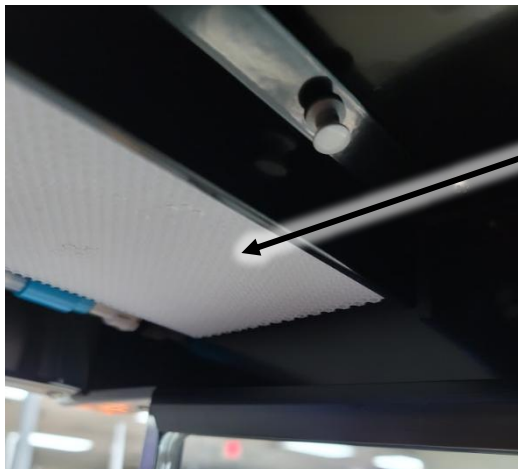
**Note:** Do not insert the front or back of the Honeycomb independently. It must be inserted evenly.



Outside View



Inside View



**Step 6:** Evenly press upwards on the Honeycomb in-between RSC unit and the Honeycomb Support Bracket.

**Note:** The Honeycomb will snap into place, and the flanges of the RSC unit and the Honeycomb Support Bracket will overlap the Honeycomb

**IMPORTANT NOTE:** Proper installation of the Honeycomb is critical to correct airflow in the RSC's air curtain.

**Note:** Depending on the model of the RSC there may be multiple honeycombs.

## CLEANING THE FILTER (applies to units manufactured prior to June 2022)

In order to maintain peak operating performance, remove the filter (as shown below) and rinse it with clean water to remove dust. Under normal conditions, inspect and clean every 90 days.



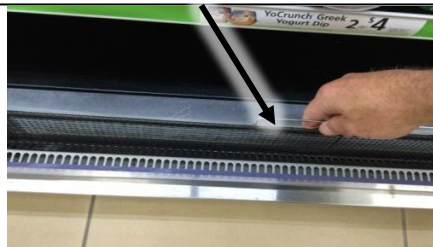
**Step 1:** Remove filter once every 90 days from upper section behind lights.

**Step 2:** Wash the filter with water only to remove dust and dirt. Shake the water from the filter and wipe off with a paper towel. Recommended sinks for cleaning- Mop sink as a primary recommendation, wash bay in 3-comp sink secondary option- must clean and sanitize sink before and after use.

Note: The filter does not need to be completely dry before it is placed back in the RSC Showcase.



**Step 4:** Replace the filters by dropping filter into the brackets by the front grill.

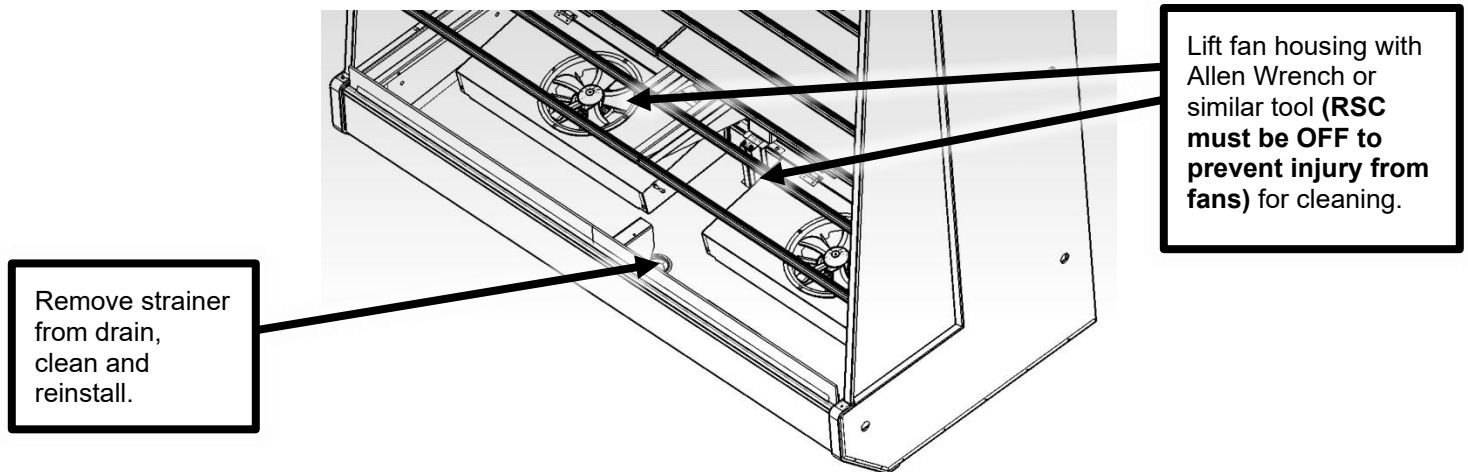


Note: Depending on the model of the RSC there may be multiple filters.

## CLEANING THE BOTTOM OF THE INNER BOX & DRAIN

(applies to units manufactured prior to June 2022)

Lift the fan duct, as shown below, and clean the bottom of the inner box with a mild detergent and a soft, damp cloth. Check the drain hole for proper water flow and remove any blockage. Rinse with clean water.



For units with the condensing unit mounted on top, inspect the condenser fins at least once every three months. Brush out or vacuum any dirt or lint that has accumulated in the fins.

## CLEANING THE CABINET

To clean the cabinet and shelves, use a mild detergent and a soft, damp cloth. Rinse with clean water. Do not use paint thinner, laundry detergent, harsh chemicals, or abrasive pads or cleaners.

## STORING THE CABINET

Step 1: Disconnect the unit from its power source.

Step 2: Wipe the interior of the RSC with a damp cloth.

Step 3: Cap off refrigeration connection lines.

Step 4: Unit must be stored indoors in a clean, dry place. Do not choose a location where the unit will be exposed to direct sunlight, high temperature, or high humidity.



## **TROUBLESHOOTING**

Before calling your Service Technician, please make these simple checks:

**If the unit is not operating:**

1. Is there a main-power failure?
2. Is there a blown fuse?
3. Has the refrigeration unit cycled off, because it is at the designated operating temperature?

**If the LED light is off:**

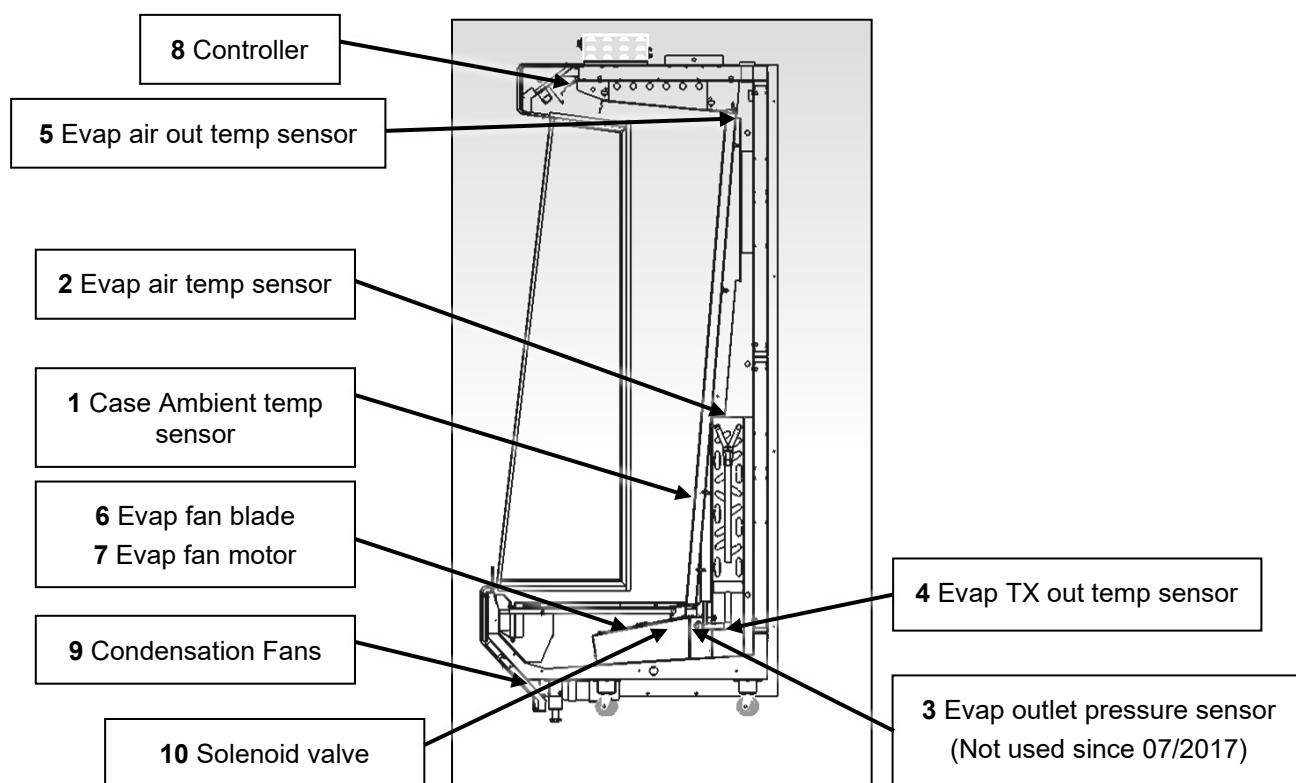
1. Is the LED tube properly connected to the power source?

**If the cabinet temperature is too warm:**

1. Is the controller set-point set correctly?
2. Is the cabinet located in direct sunlight?
3. Is the cabinet located in a strong air-flow path?
4. Is the distance between the upper surface of the displayed merchandise and the shelf directly above it at least 1"?
5. Is the air temperature around the cabinet above 80°F?

REFER TO THE ENVIRONMENTAL CONSIDERATIONS, ON PAGES 17-19, THAT WILL AFFECT COOLING PERFORMANCE.

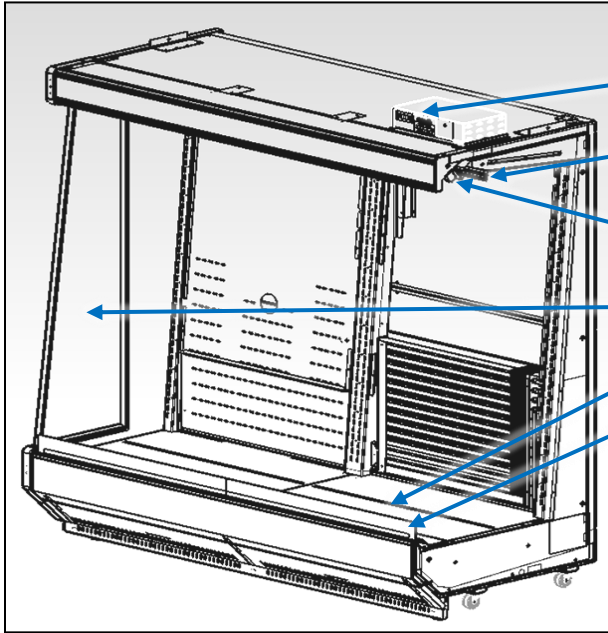
| Item | Description                       | Controller Alarm Display or Symptom    | Part #                  | Action                                                                                                            |
|------|-----------------------------------|----------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1    | Case Ambient Temp. Sensor         | Err 1 / Err 6                          | <a href="#">1256245</a> | Sensor disconnected or out of range. Check sensor wire continuity to controller, or replace sensor                |
| 2    | Evaporator Air Coil Temp. Sensor  | Err 5 / Err 7                          | <a href="#">1256245</a> |                                                                                                                   |
| 3    | Evaporator Outlet Pressure Sensor | Err 3                                  | 1220143                 |                                                                                                                   |
| 4    | Evaporator TX Outlet Temp. Sensor | Err 4                                  | <a href="#">1256245</a> |                                                                                                                   |
| 5    | Evaporator Air Out Temp. Sensor   | Err 2                                  | <a href="#">1256245</a> |                                                                                                                   |
| 6    | Evaporator Fan Blade              | Excessive noise from fan, blade wobble | <a href="#">1220804</a> | Replace fan blade                                                                                                 |
| 7    | Evaporator Fan Motor              | Fan not turning, RSC not cooling       | <a href="#">1262025</a> | Check 115 VAC is getting to motor; replace motor                                                                  |
| 8    | Controller                        | RSC not cooling                        | 1243039-1.07            | Turn off power to RSC and turn back on; confirm remote refrigeration unit is working properly; replace controller |
| 9    | Condensation Fans                 | Moisture accumulating on bottom of RSC | 1218646                 | If fan isn't turning, check fan is getting 24 VDC; replace fan                                                    |
| 10   | Solenoid Valve                    | RSC not cooling                        | <a href="#">1220789</a> | Confirm 24 VDC is getting to solenoid; replace solenoid                                                           |





## SERVICE PARTS

Component parts shall be replaced with like components to minimize the risk of possible ignition due to incorrect parts.

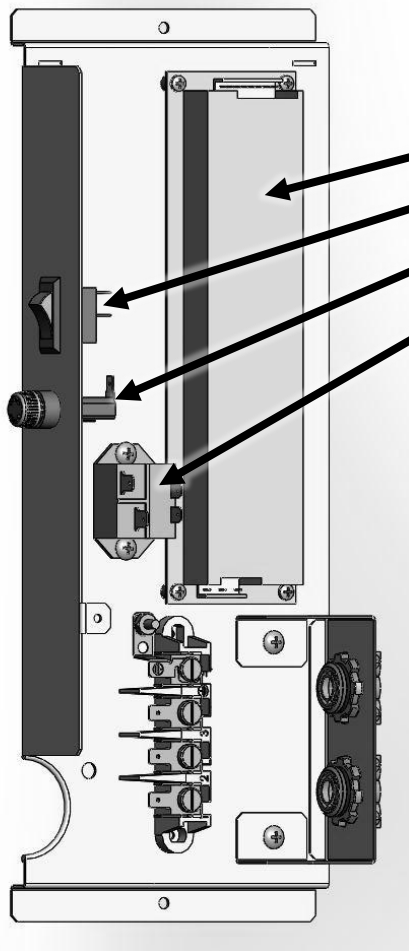


### **Other Replacement Items:**

- 1243039-1.xx Controller
- 1239465-1 Honeycomb (RSC 6 & RSC 3)
- 1239465 Honeycomb (RSC 4)
- 1259105 LED, T8 Style 24V (RSC 3)
- 1259105-1 LED, T8 Style 24V (RSC 4)
- 1259105-2 LED, T8 Style 24V (RSC 6)
- 1212704 Side Glass (same each side)
- 1213962 Lint Filter (only units before June 2022)
- 1215798 Air Dam (RSC 6 & RSC 3, clear plastic)
- 1215798-1 Air Dam (RSC 4, clear plastic)
- 1280278 Drain Strainer (not shown)

### Shelf Glass

- 1214585-01 Kit, Glass Shelf RSC3/6 (1 piece)
- 1214585-02 Kit, Glass Shelf RSC4 (1 piece)
- 1214585-2-CSP Glass Shelf, 4 Pieces/Pk, RSC3/6
- 1214585-3-CSP Glass Shelf, 4 Pieces/Pk, RSC4
- 1214585-4-CSP Glass Shelf, 7 Pieces/Pk, RSC3/6
- 1214585-5-CSP Glass Shelf, 7 Pieces/Pk, RSC4



**Power box components:**

- 1221374 Power Supply, 24VDC
- 1187843 Rocker Switch
- 1128474 Fuse Holder & 1053864 Fuse, 0.8A / 250V
- 1124284 Relay

**Cables (not shown)**

- 1252542 - Harness Low Voltage RSC
- 1220368 - Harness High Voltage RSC
- 1220377 - Harness Ground RSC