



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. In the course of new installations or periodic inspections, reference to agency approvals may be required. The regulatory agency file number is listed below and at the bottom of the Specification table on page 5.

ETL File #4007858



Intertek



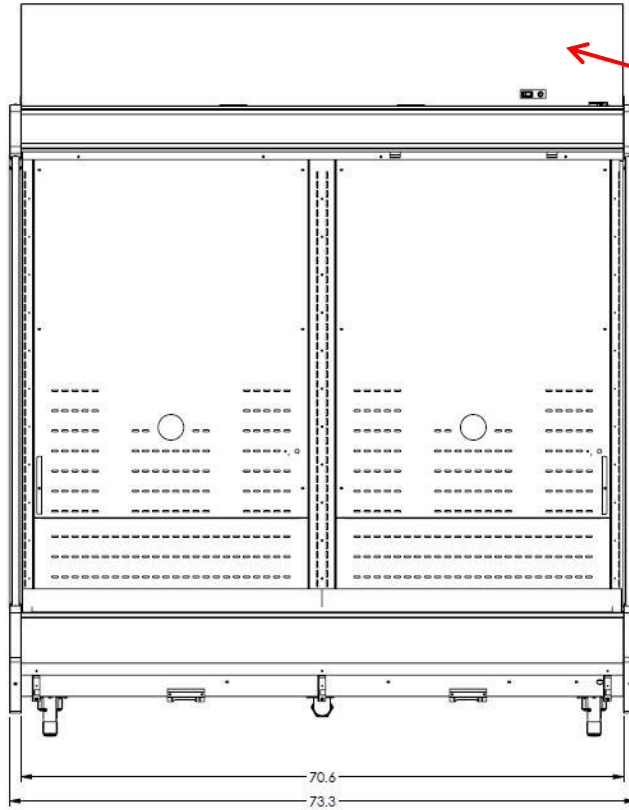
Intertek



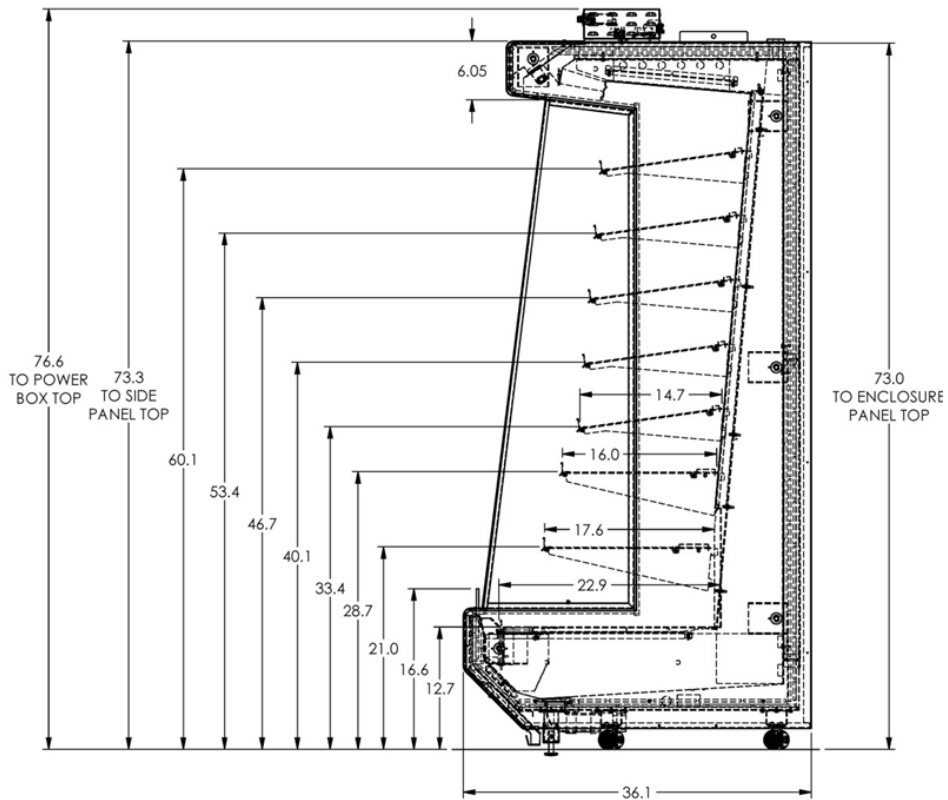
CONTENTS

| | |
|---|----------------|
| DIMENSIONS RSC 6 | 4 |
| SPECIFICATIONS RSC 6 | 5 |
| DIMENSIONS RSC 4 | 6 |
| SPECIFICATIONS RSC 4 | 7 |
| DIMENSIONS RSC 3 | 8 |
| SPECIFICATIONS RSC 3 | 9 |
| SAFETY PRECAUTIONS | 10 |
| UNPACKING | 11 |
| INITIAL SET-UP | 12 – 17 |
| Cabinet Set-up..... | 12 – 17 |
| ELECTRICAL INSTALLATION | 18 - 19 |
| Wiring Diagram..... | 19 |
| REFRIGERATION INSTALLATION | 20 – 21 |
| VALANCE INSTALLATION | 21 – 22 |
| START-UP & OPERATING INFORMATION | 23 – 24 |
| Start-up Information and Performance Evaluation..... | 23 |
| Operating Guidelines..... | 23 |
| Controller Operation and Error Codes..... | 24 |
| GENERAL MAINTENANCE | 25 – 29 |
| Cleaning the Honeycomb..... | 25 – 26 |
| Cleaning the Filter..... | 27 – 28 |
| Cleaning the Bottom of the Inner Box & the Drain..... | 28 |
| Cleaning the Cabinet..... | 29 |
| STORING THE CABINET | 29 |
| TROUBLESHOOTING | 29 – 30 |
| SERVICE PARTS | 31 |

DIMENSIONS RSC 6



Top Valence Cover adds 16.0" to overall height



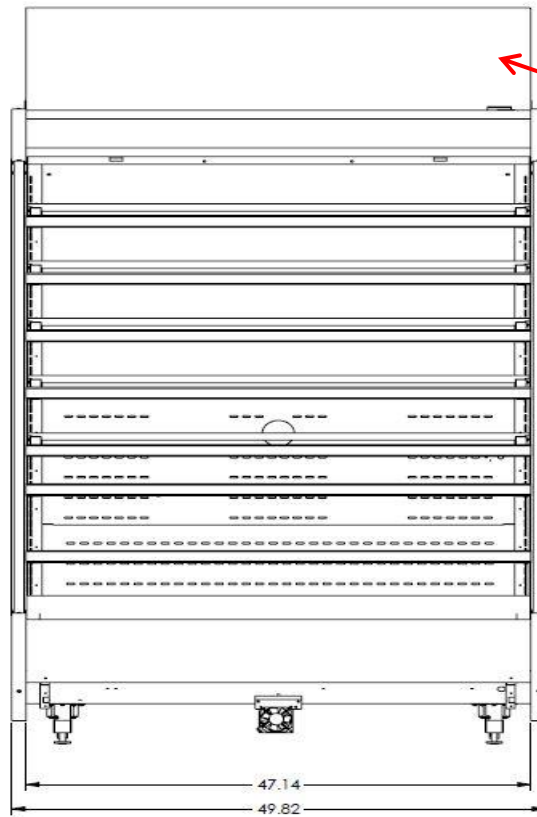


SPECIFICATIONS RSC 6

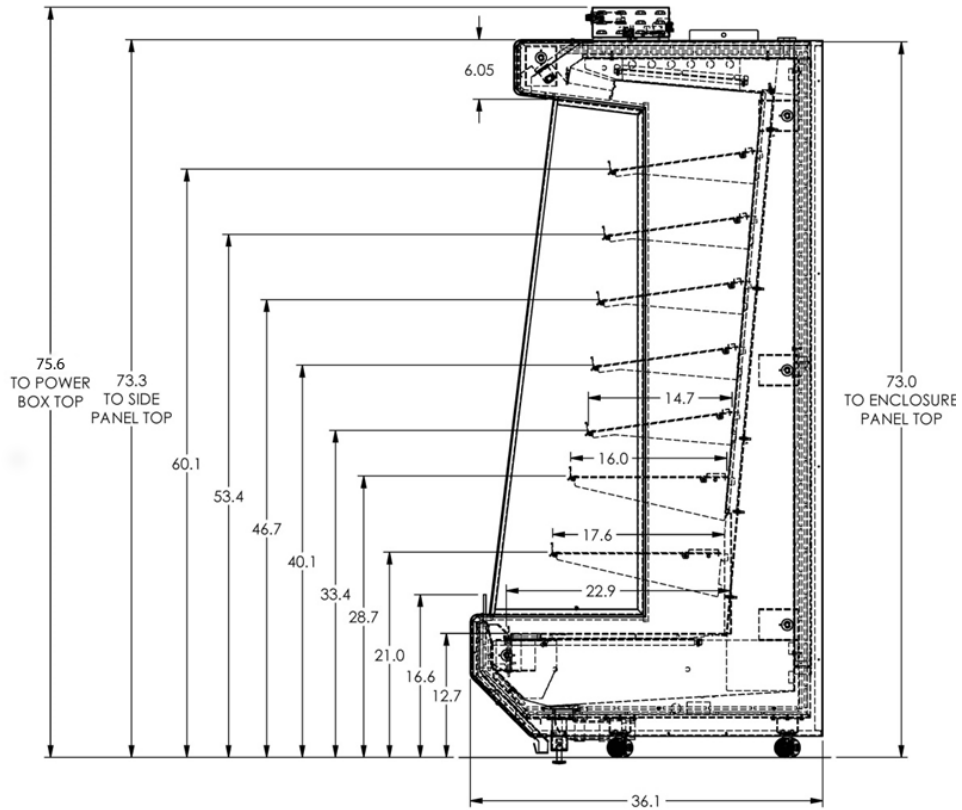
| | | |
|--|--------------------------|--|
| Model | | RSC6 (RAC) |
| Product Temperature | | Maintain product temperature at or below 41°F |
| Environmental Conditions | | NSF/ANSI 7 Type II Standard, maximum indoor 80°F, relative humidity 54% |
| External Dimensions | Width | 73.5" |
| | Depth | 36.1" |
| | Height | 75.6" (91.6" with Valence) |
| Structure | Outer / Inner Box | Powder coated steel / zinc coated steel |
| | Insulation | Rigid insulating foam |
| Color | | Internal: Black, External: Black (<i>Optional: White/White available</i>) |
| Shelves | | 14 shelves (7 per side), adjustable powder coated steel frame, glass inserts standard (<i>Optional: metal inserts</i>) |
| Electrical Parts 115/60/1 (3 Amp) | Fan Motor | ECM high efficiency |
| | Lighting | LED |
| | Solenoid Valve | Hermetic direct acting solenoid valve for refrigeration (24V DC) |
| Pipe Size of Connection Point | Liquid Line | 3/8" OD |
| | Suction Line | 5/8" OD |
| Refrigerant | | R404A standard (<i>Optional: R410A</i>) |
| Evaporator | | Fin tube type |
| Expansion Valve | | External equalized automatic thermal expansion valve |
| Controller | | Digital programmable controller with Modbus communication protocol |
| Casters | | (4) 2" Casters |
| Drain Pipe Dimensions | | 1.5" NPT Male Connector |
| Thermometer | | Product simulation thermometer |
| Internal Volume | | 41.46 ft ³ |
| Weight | | 598 lb. |
| Noise | | Less than 65 dB at 4 ft. |
| Agency Approvals | | ETL File #4007858 Conforms to ANSI/UL 471, NSF Conforms to ANSI 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 adds 16.0" to overall height



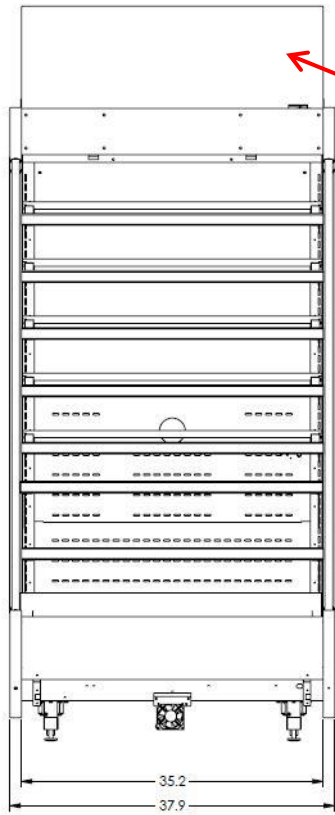


SPECIFICATIONS RSC 4

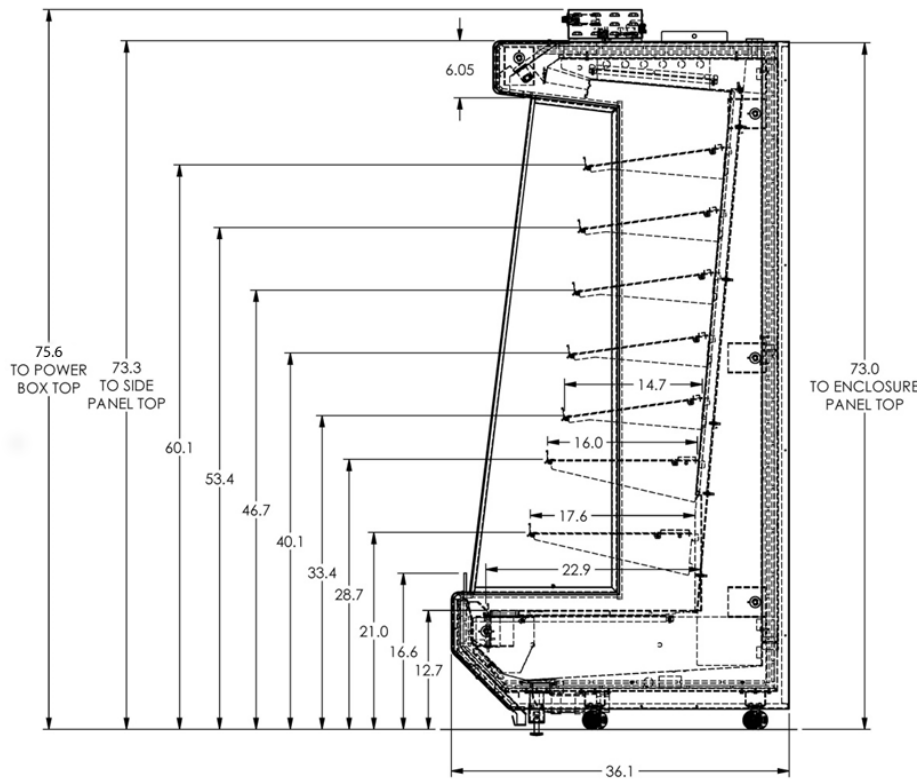
| | | |
|--|--------------------------|--|
| Model | | RSC4 (RAC) |
| Product Temperature | | Maintain product temperature at or below 41°F |
| Environmental Conditions | | NSF/ANSI 7 Type II Standard, maximum indoor 80°F, relative humidity 54% |
| External Dimensions | Width | 49.9" |
| | Depth | 36.1" |
| | Height | 75.6" (91.6" with Valence) |
| Structure | Outer / Inner Box | Powder coated steel / zinc coated steel |
| | Insulation | Rigid insulating foam |
| Color | | Internal: Black, External: Black (<i>Optional: White/White available</i>) |
| Shelves | | 7 shelves, adjustable powder coated steel frame, glass inserts standard (<i>Optional: metal inserts</i>) |
| Electrical Parts 115/60/1 (3 Amp) | Fan Motor | ECM high efficiency |
| | Lighting | LED |
| | Solenoid Valve | Hermetic direct acting solenoid valve for refrigeration (24V DC) |
| Pipe Size of Connection Point | Liquid Line | 3/8" OD |
| | Suction Line | 5/8" OD |
| Refrigerant | | R404A standard (<i>Optional: R410A</i>) |
| Evaporator | | Fin tube type |
| Expansion Valve | | External equalized automatic thermal expansion valve |
| Controller | | Digital programmable controller with Modbus communication protocol |
| Casters | | (4) 2" Casters |
| Drain Pipe Dimensions | | 1.5" NPT Male Connector |
| Thermometer | | Product simulation thermometer |
| Internal Volume | | 27.75 ft ³ |
| Weight | | 405 lb. |
| Noise | | Less than 65 dB at 4 ft. |
| Agency Approvals | | ETL File #4007858 Conforms to ANSI/UL 471, NSF Conforms to ANSI 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 adds 16.0" to overall height





SPECIFICATIONS RSC 3

| | | |
|--|--------------------------|--|
| Model | | RSC3 (RAC) |
| Product Temperature | | Maintain product temperature at or below 41°F |
| Environmental Conditions | | NSF/ANSI 7 Type II Standard, maximum indoor 80°F, relative humidity 54% |
| External Dimensions | Width | 37.9" |
| | Depth | 36.1" |
| | Height | 75.6" (91.6" with Valence) |
| Structure | Outer / Inner Box | Powder coated steel / zinc coated steel |
| | Insulation | Rigid insulating foam |
| Color | | Internal: Black, External: Black (<i>Optional: White/White available</i>) |
| Shelves | | 7 shelves, adjustable powder coated steel frame, glass inserts standard (<i>Optional: metal inserts</i>) |
| Electrical Parts 115/60/1 (3 Amp) | Fan Motor | ECM high efficiency |
| | Lighting | LED |
| | Solenoid Valve | Hermetic direct acting solenoid valve for refrigeration (24V DC) |
| Pipe Size of Connection Point | Liquid Line | 3/8" OD |
| | Suction Line | 5/8" OD |
| Refrigerant | | R404A standard (<i>Optional: R410A</i>) |
| Evaporator | | Fin tube type |
| Expansion Valve | | External equalized automatic thermal expansion valve |
| Controller | | Digital programmable controller with Modbus communication protocol |
| Casters | | (4) 2" Casters |
| Drain Pipe Dimensions | | 1.5" NPT Male Connector |
| Thermometer | | Product simulation thermometer |
| Internal Volume | | 20.73 ft ³ |
| Weight | | 368 lb. |
| Noise | | Less than 65 dB at 4 ft. |
| Agency Approvals | | ETL File #4007858 Conforms to ANSI/UL 471, NSF Conforms to ANSI Std 7 Type II |

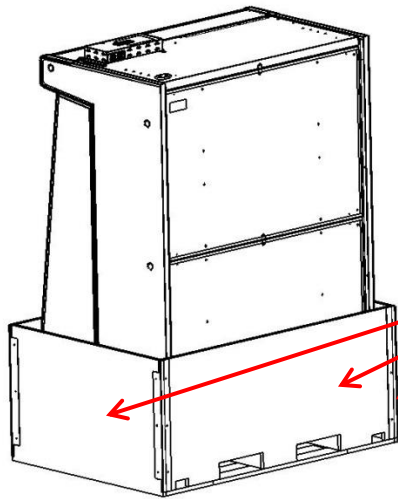
NOTE: The manufacturer reserves the right to make product improvements and change specifications without notice



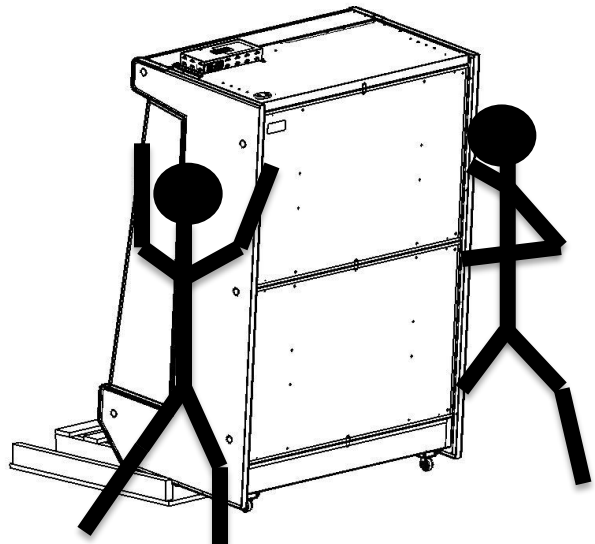
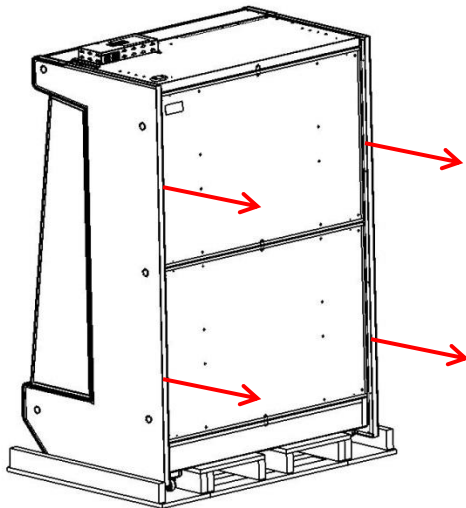
SAFETY PRECAUTIONS

- Electrical service installation should only be performed by qualified, licensed Electricians.
- Mechanical service 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 system airflow as described in this document to ensure food is maintained at required temperatures.

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.

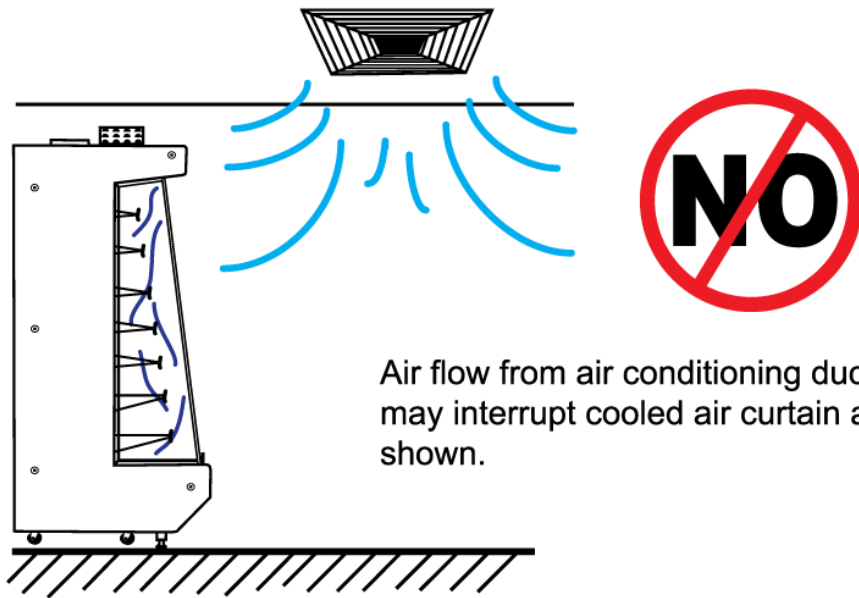
For Parts or Technical Service, please call: 1-800-344-7216 or FAX: 1-800-541-5684 or email: customerservice@vendoco.com

Additional reference manuals can be obtained at www.vendoco.com

CABINET SET-UP

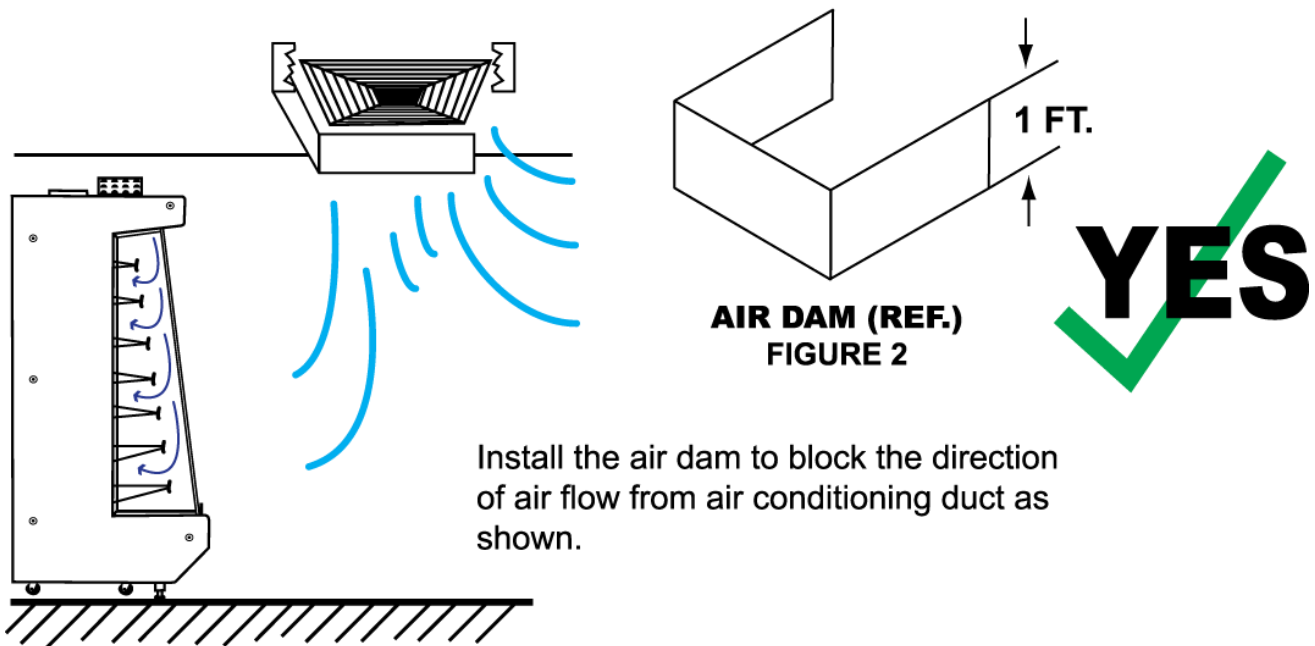
- Step 1: Choose a location for your new refrigerated display case. Avoid placing the cabinet near equipment that releases heat. Avoid direct sunlight. To protect all electrical parts, do not place the cabinet where it will be subjected to rain, splashed liquid, or excessive humidity.
- Step 2: Check 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 60 ft/min. Also, avoid areas subject to strong winds (see figures 1-7).

AIR CONDITIONING DUCT (CEILING TYPE)



Air flow from air conditioning duct may interrupt cooled air curtain as shown.

FIGURE 1



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

Install the air dam to block the direction of air flow from air conditioning duct as shown.

FIGURE 3

AIR CONDITIONING DUCT (WALL TYPE)

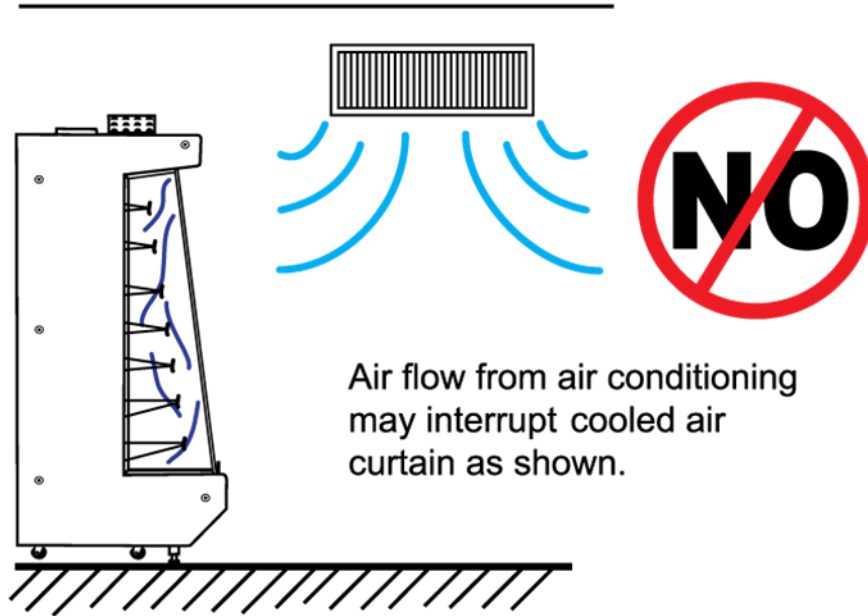


FIGURE 4

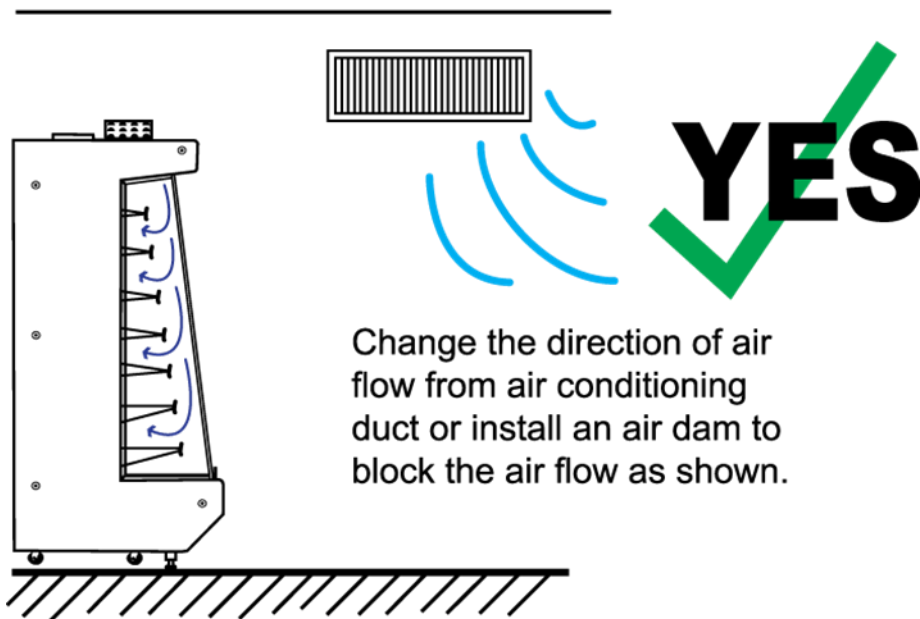
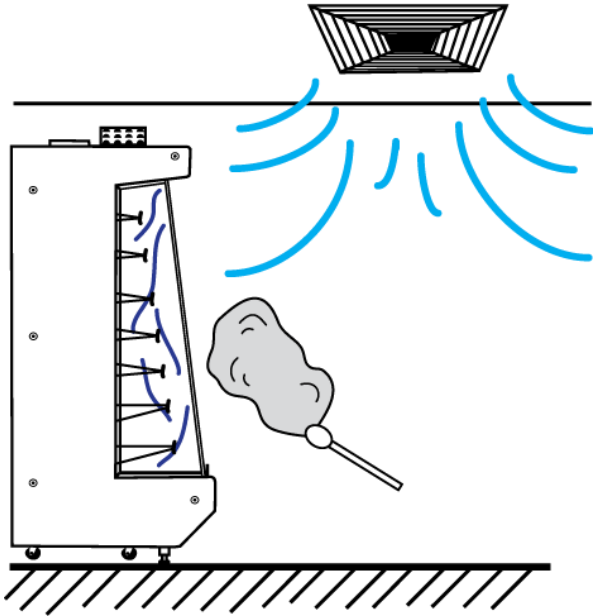


FIGURE 5

TO CHECK AIR CURTAIN



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.

FIGURE 6

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

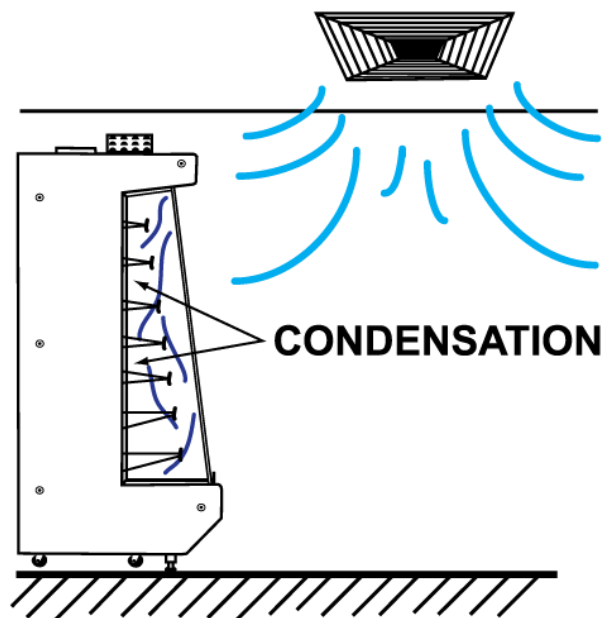
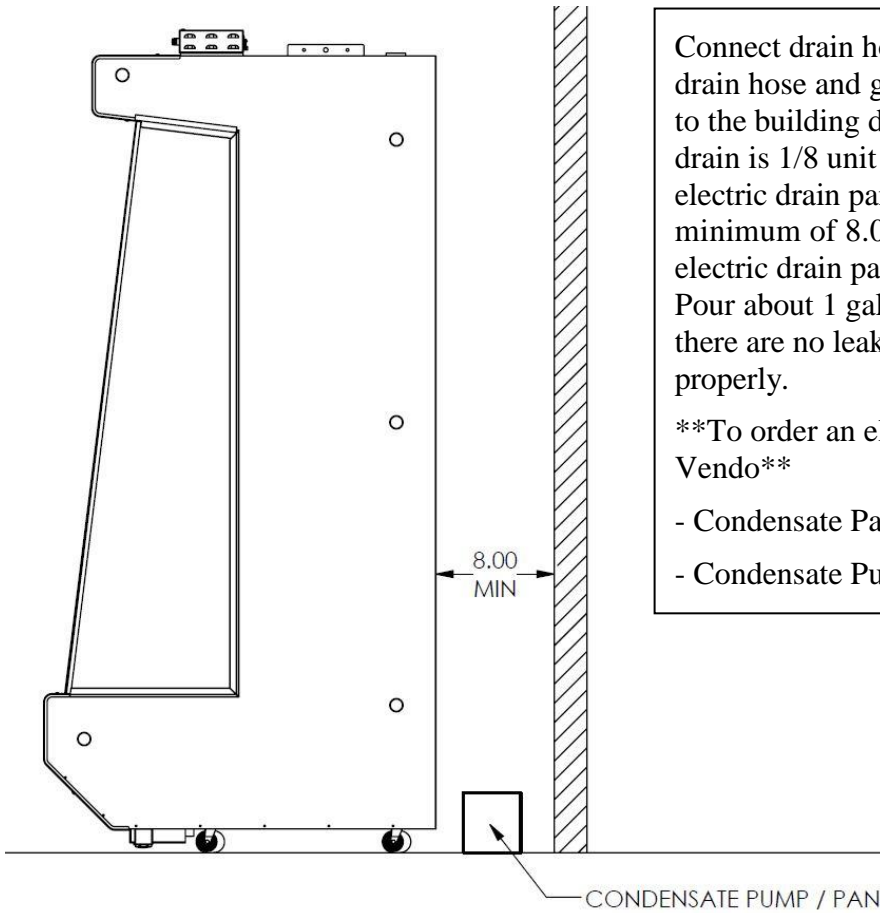


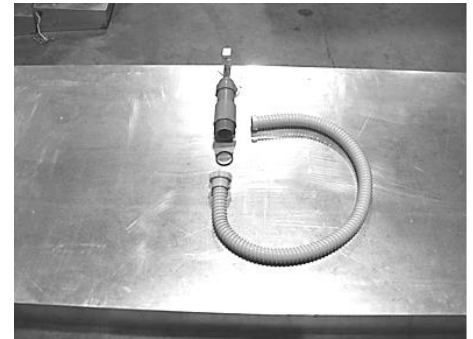
FIGURE 7



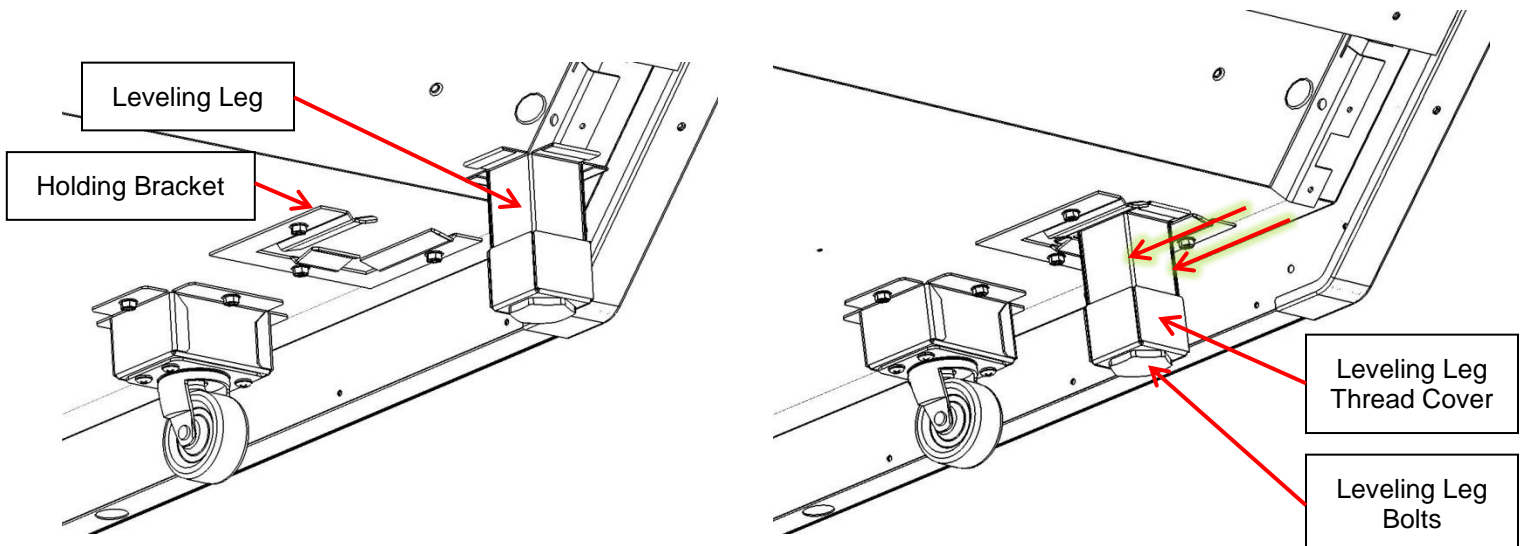
Connect drain hose to the RSC unit using the included drain hose and gasket (pictured below). Attach the hose to the building drain system. The required pitch of the drain is 1/8 unit vertical in 12 unit horizontal. If using an electric drain pan or pump, the RSC unit must be a minimum of 8.0 inches away from the wall. Connect electric drain pan or to a separate 115V power supply. Pour about 1 gallon of water into the RSC drain to verify there are no leaks, and the drain system / sump / pan work properly.

****To order an electric sump or drain pan contact Sanden Vendo****

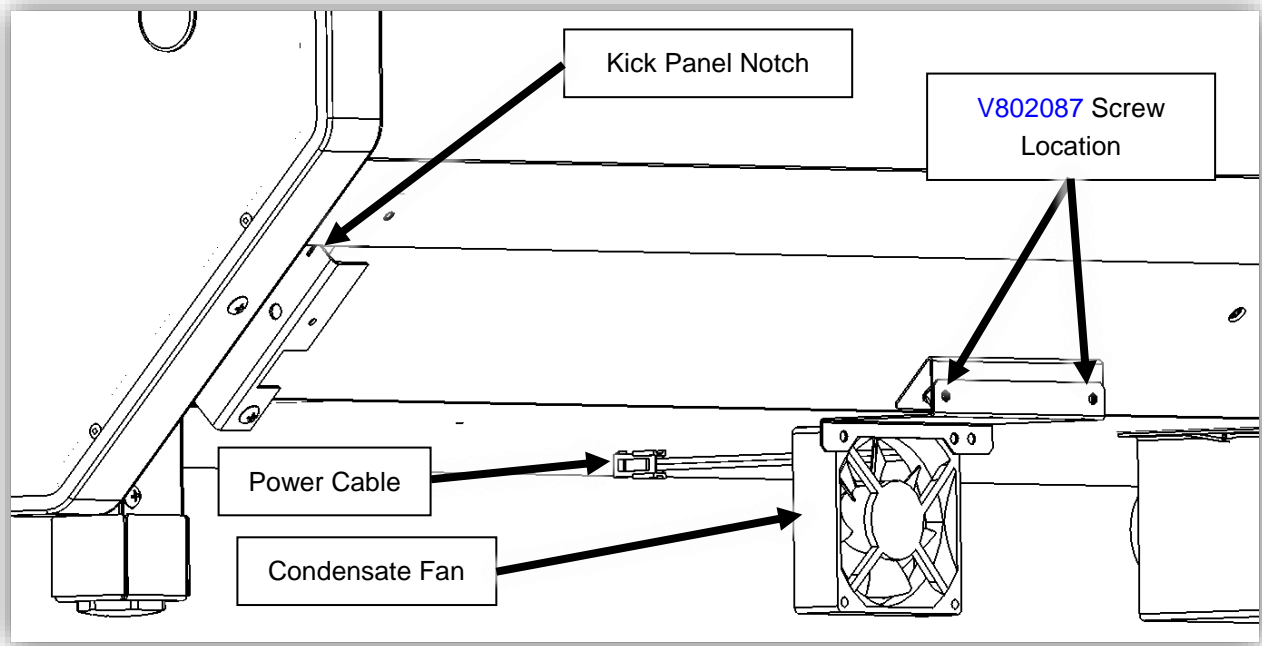
- Condensate Pan, Evapoway (SVA Number [1241338](#))
- Condensate Pump (SVA Number [1231359](#))



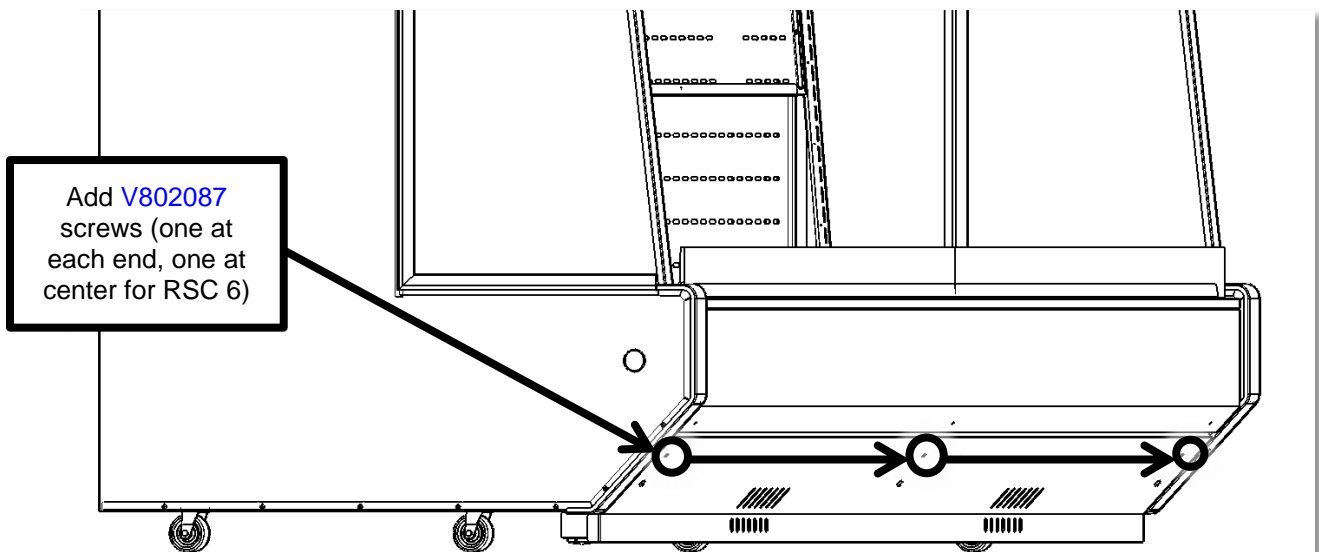
Install the Leveling Legs by sliding the leg into the pre-installed Holding Bracket. Begin installation by hand, and finish with a soft mallet. Insure unit is level by lowering and adjusting Leveling Leg Bolts. Insure the RSC does not roll and push down Thread Cover.



Install condensate fans (one each side for RSC 6 model, or one in the center for the RSC 3 & RSC 4 models) using two V802087 screws provided and connect power cable to harness (not shown). (NOT USED ON UNITS PRODUCED AFTER 9-5-17)



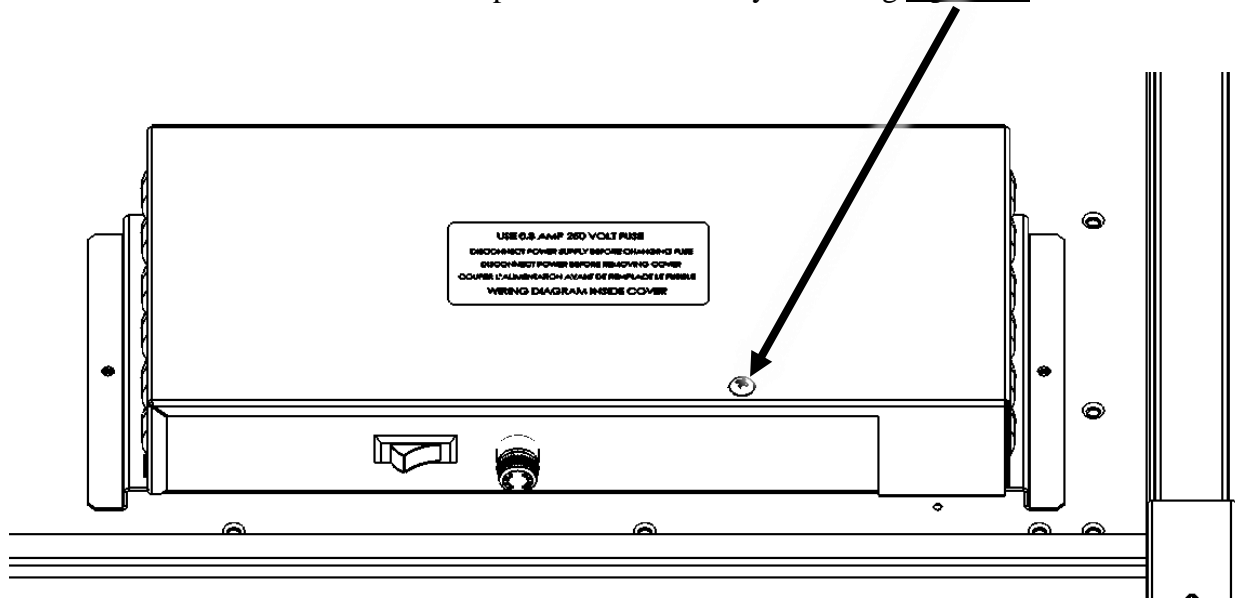
Install lower kick panel and engage upper lip in notches.



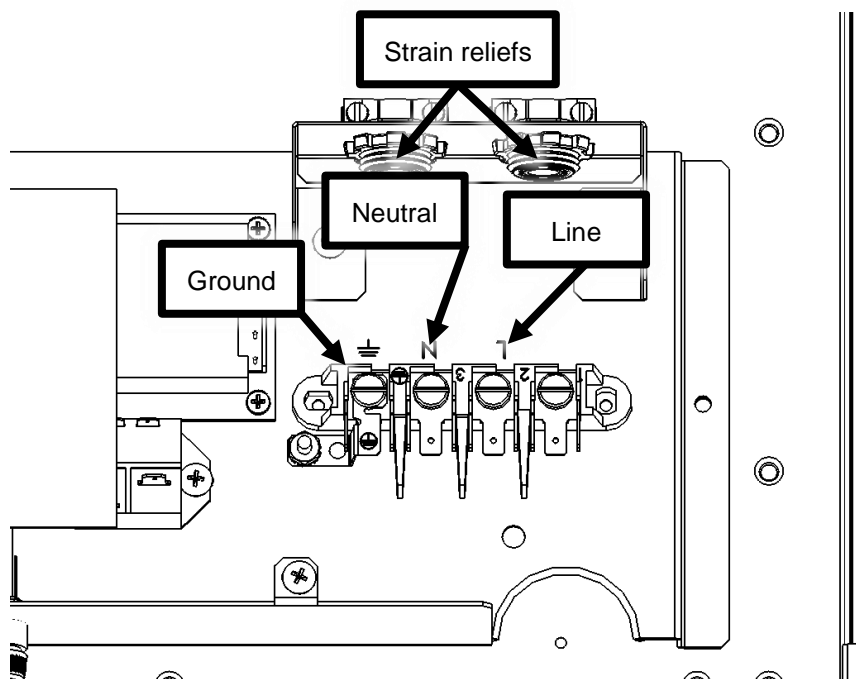
ELECTRICAL INSTALLATION

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.

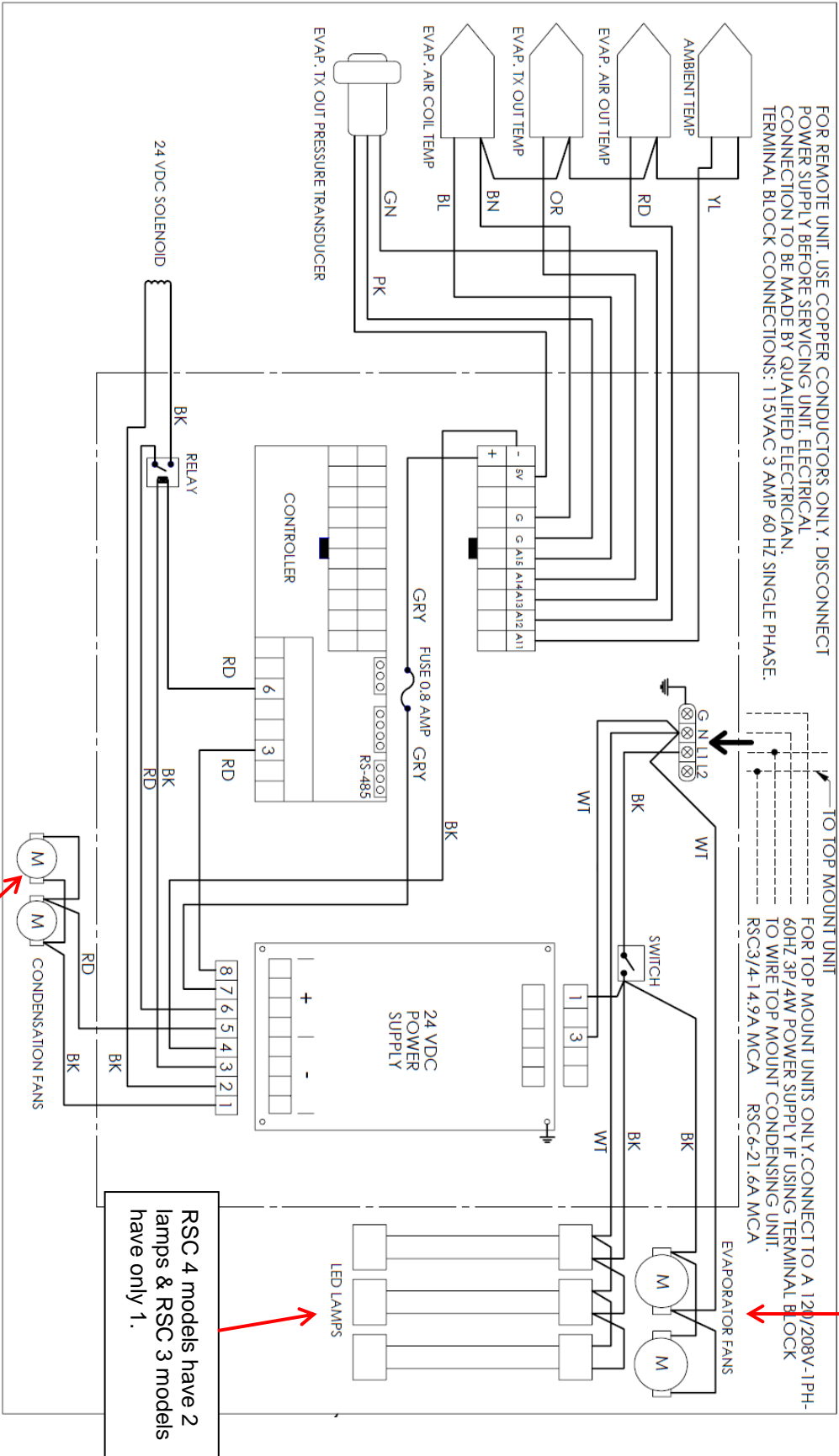
Remove cover from power control box by removing top screw.



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



Wiring Diagram RSC Remote



RSC 3 and RSC 4 Models only have one condensation fan.

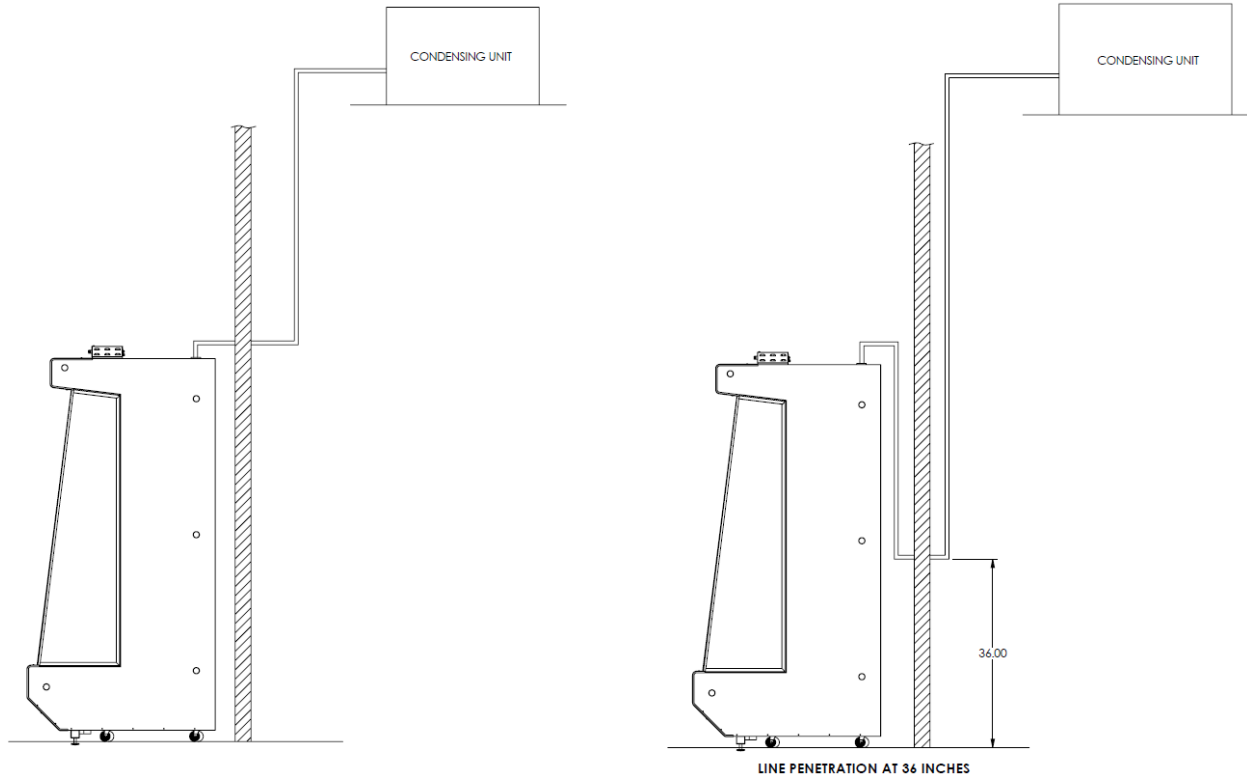
RSC 4 models have 2 lamps & RSC 3 models have only 1.

RSC 3 and RSC 4 Models only have one evaporator fan.

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) Utilizing proper refrigeration practices connect the refrigerant lineset to the RSC stub outs using long radius fittings. Trim the line set length so as to keep from creating oil traps in the lines.



- 2) Connect lineset to the remote mounted condensing unit.
- 3) Turn on power to the RSC to open liquid line solenoid, ALL brazing should be done under a low pressure nitrogen purge.
- 4) After brazing, pressurize system with nitrogen and check brazed joints for leaks.
- 5) 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.
- 6) Break vacuum with liquid refrigerant through the HIGH side access port at the condensing unit.
- 7) 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.
- 8) 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

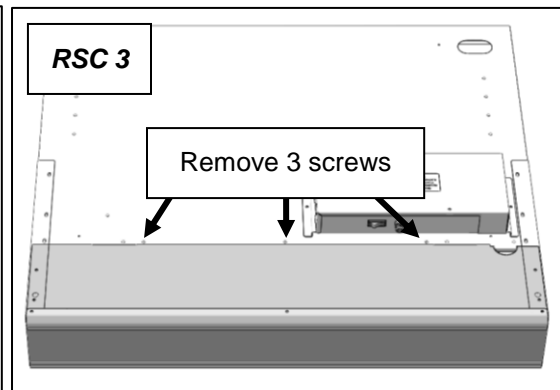
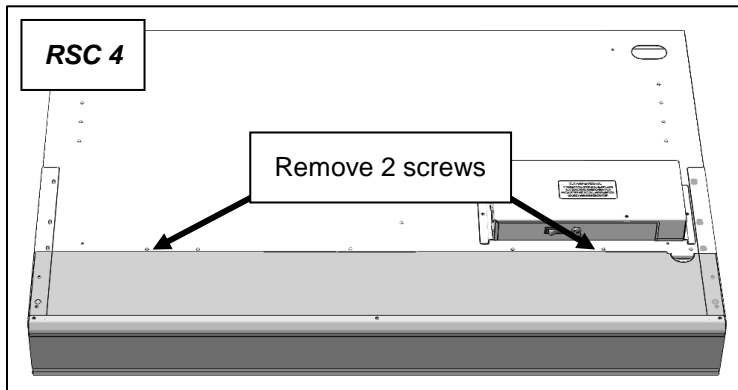
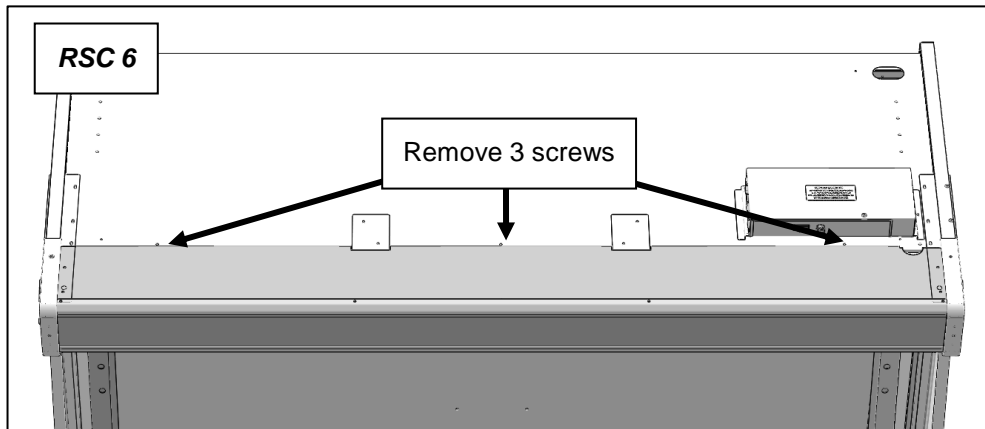
- Turn on the condensing unit and the RSC. Insure the lights and fans operate. The control system is factory preset and does not need adjustment. Allow the RSC to run for 1 hour and check the temperature on the high quality dial thermometer to insure the case is below 41°F.
- Air curtain disturbance must be checked, (see figures 1-9).

VALENCE INSTALLATION INSTRUCTIONS

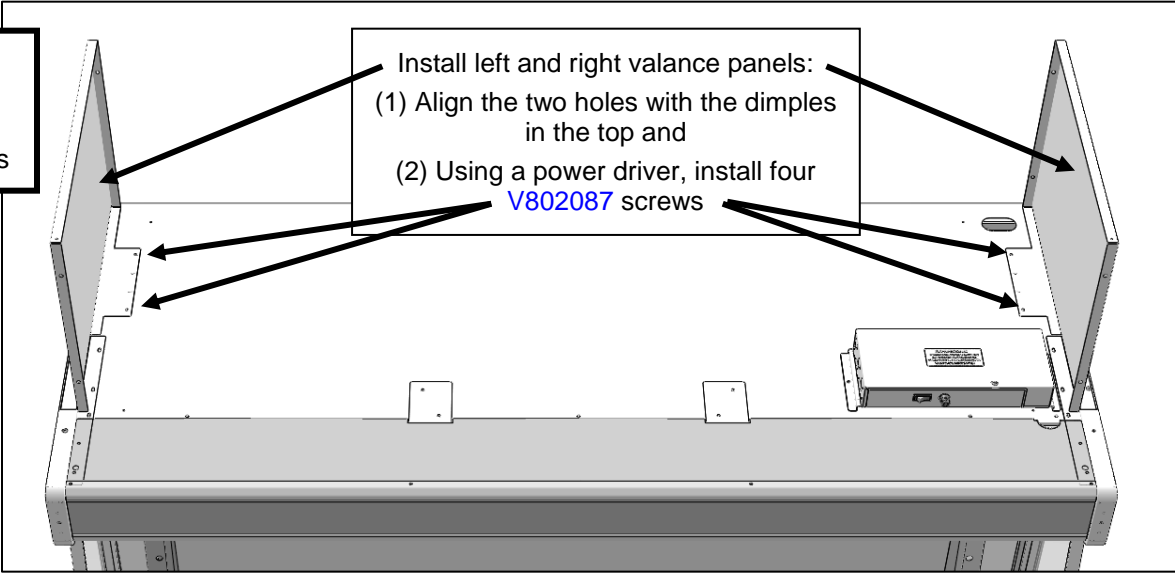
Parts List

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

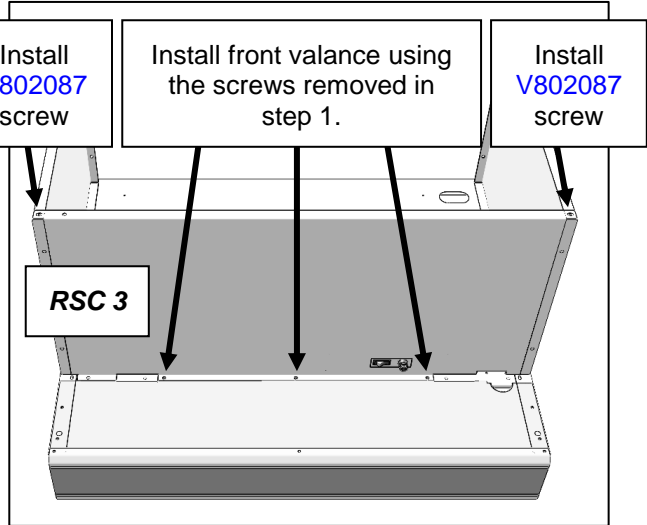
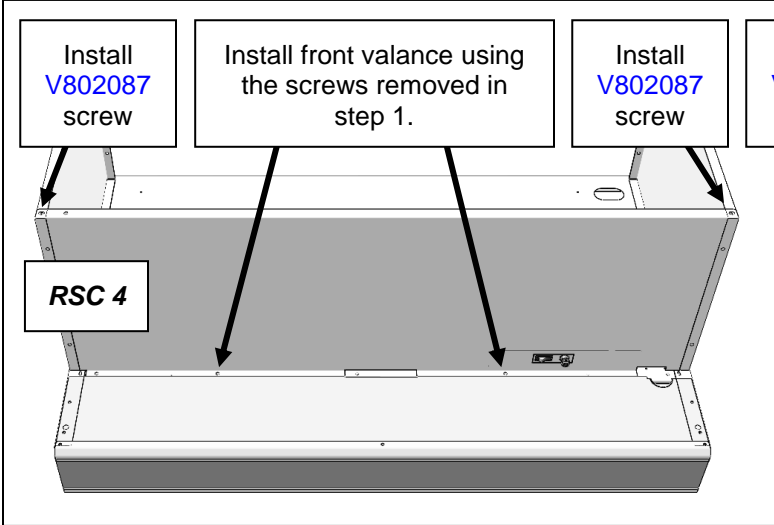
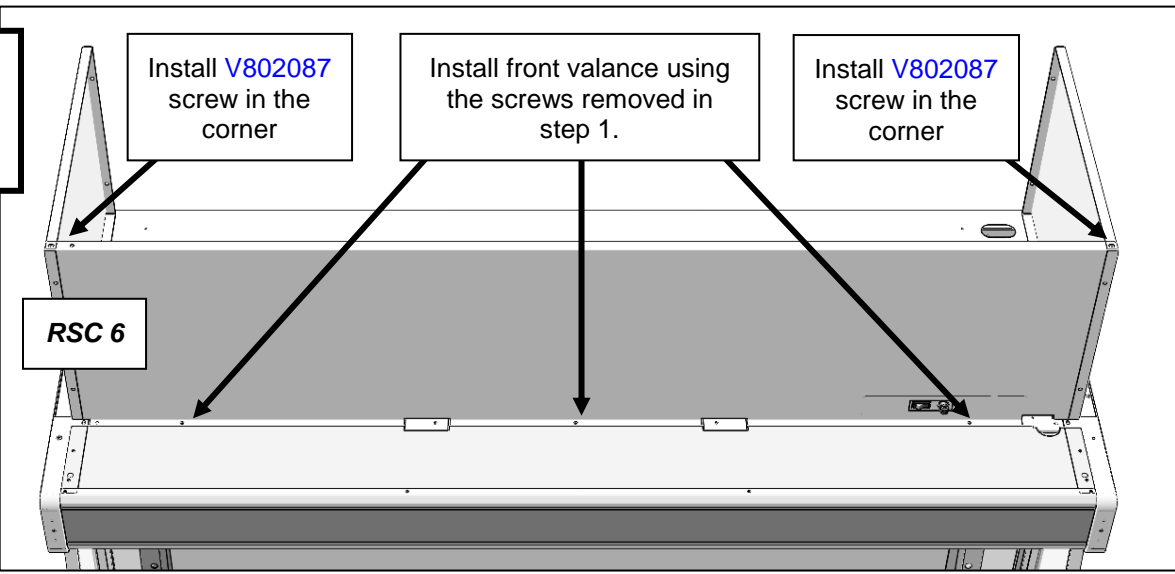
Step 1
Remove
screws



Step 2
Install side valances



Step 3
Install front valance



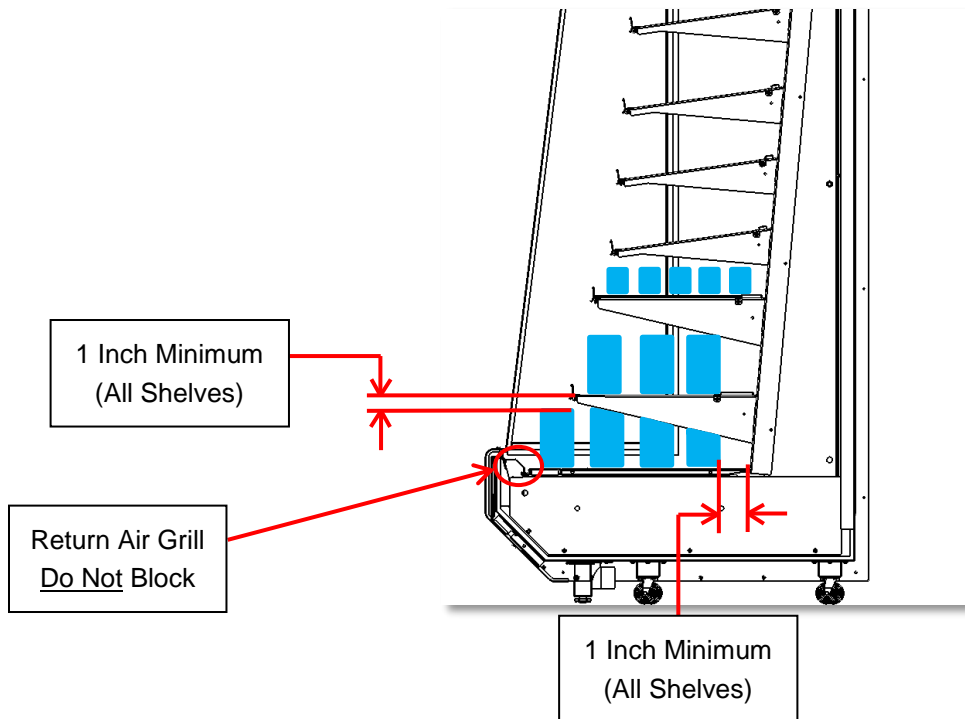
START-UP & OPERATING INFORMATION

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

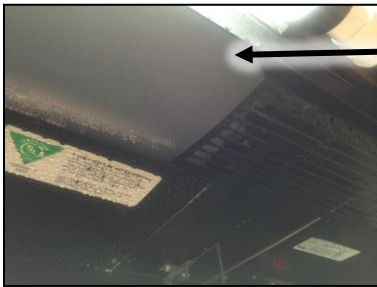
| Level 1 | Err # | Description |
|---------|-------|--|
| tEnP | | Display Ambient Temperature |
| COIL | | Display Coil Temperature |
| EU0P | | Display Evaporator Outlet Pressure Sensor |
| EU0t | | Display Evaporator Outlet Temp |
| EUA0 | | Display Air Out Temperature |
| SuHt | | SuperHeat = EU0P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

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

GENERAL MAINTENANCE

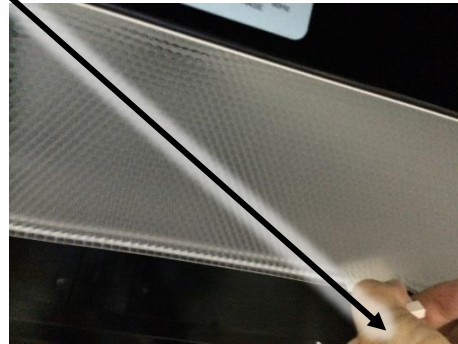
CLEANING THE HONEYCOMB

In order 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 filter once every 90 days from upper section behind lights.

Step 2: To remove the filter pull down the tab located in the back of the filter.

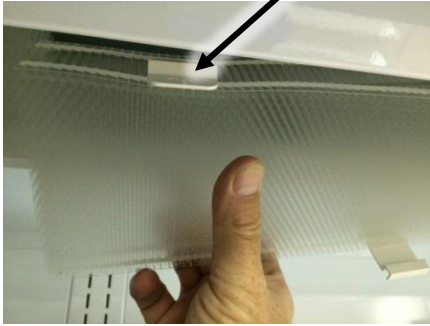


Step 3: Wash the honeycomb with water only to remove dust and dirt. Shake the water from the filter and wipe off with a paper towel. Recommended sinks for cleaning- Mop sink as a primary recommendation, wash bay in 3-comp sink secondary option- must clean and sanitize sink before and after use.

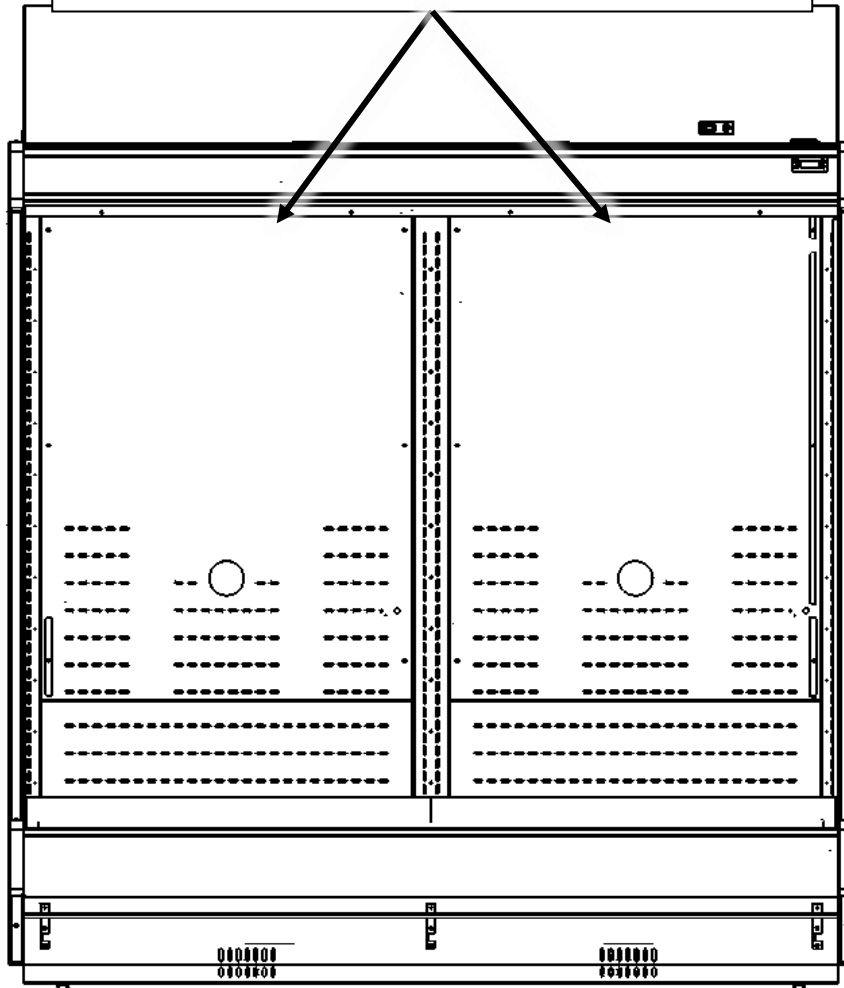
Note: The honeycomb does not need to be completely dry before it is placed



Step 5: Replace the honeycombs by pushing in the front tabs first and pushing up on the back side.



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



CLEANING THE FILTER

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.



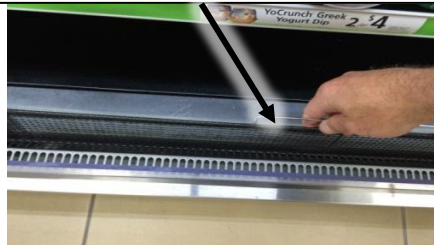
Step 1: Remove filter once every 90 days from upper section behind lights.

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.

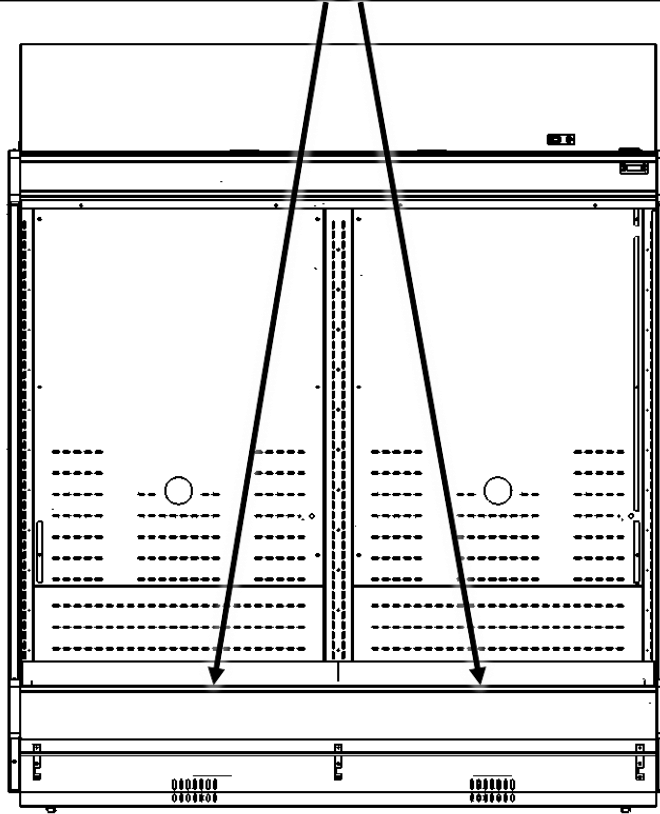
Note: The filter does not need to be completely dry before it is placed back in the RSC Showcase.



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

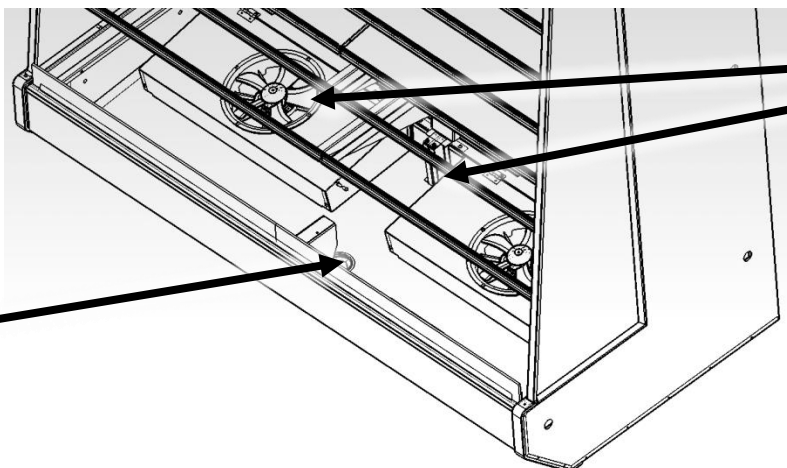


Note: Depending on the model of the RSC there may be multiple filters.



CLEANING THE BOTTOM OF THE INNER BOX & DRAIN

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.



Lift fan housing
(RSC must be OFF
to prevent injury
from fans) for
cleaning.

Remove strainer
from drain,
clean and
reinstall.



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:

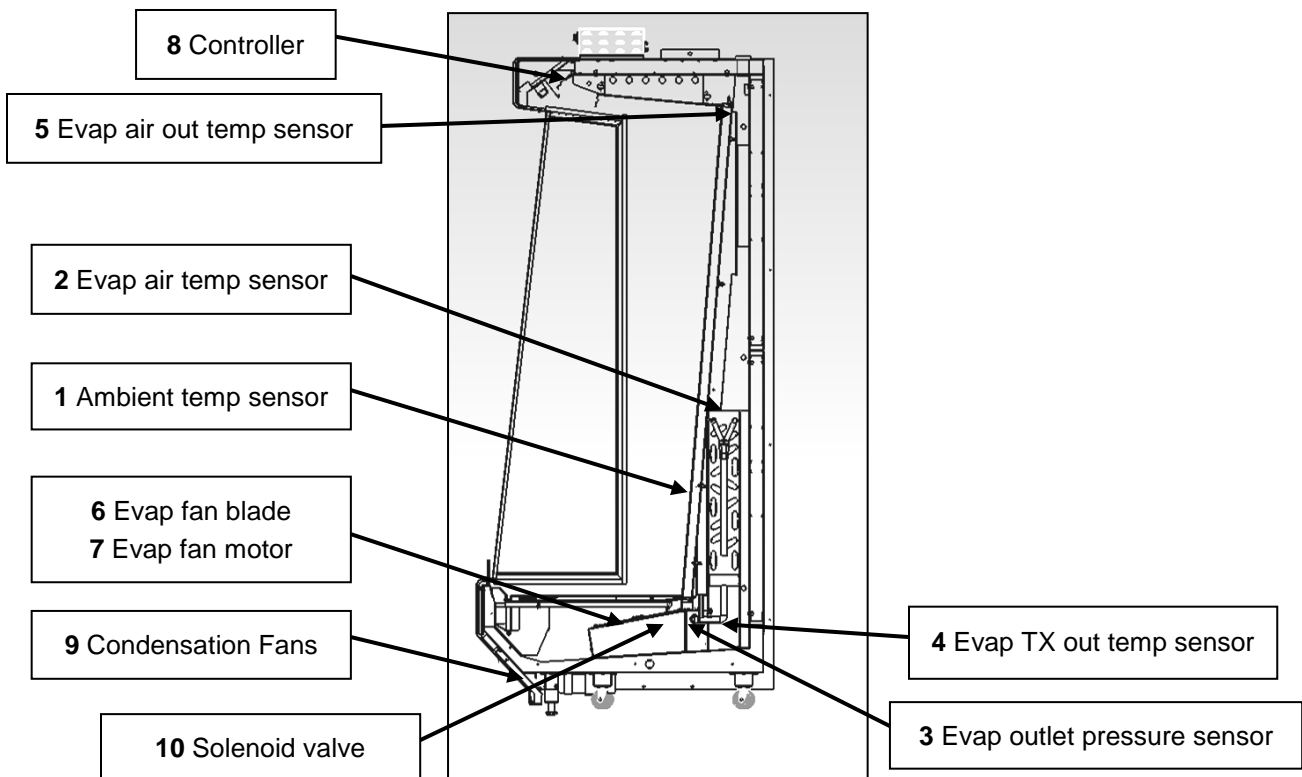
1. Is the LED tube properly connected to the power source?

If the cabinet temperature is too warm:

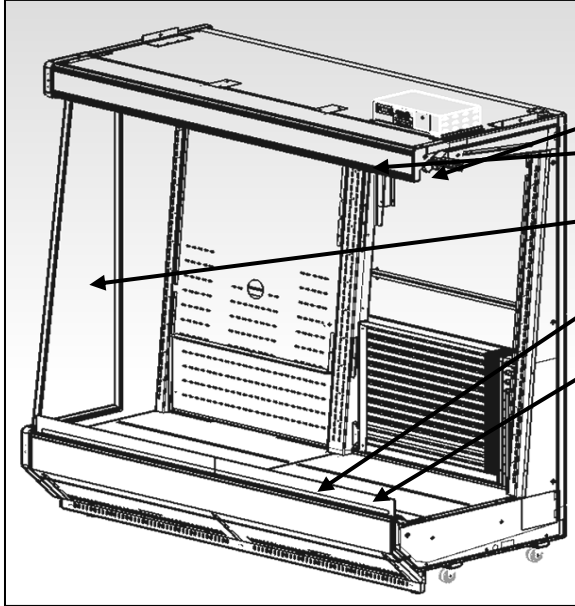
1. Is the controller set-point set correctly?
2. Is the cabinet located in direct sunlight?
3. Is the cabinet located in a strong air-flow path?
4. Is the distance between the upper surface of the displayed merchandise and the shelf directly above it at least 1”?
5. Is the air temperature around the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

REFER TO THE ENVIRONMENTAL CONSIDERATIONS, ON PAGES 8 AND 9, THAT WILL AFFECT COOLING PERFORMANCE.

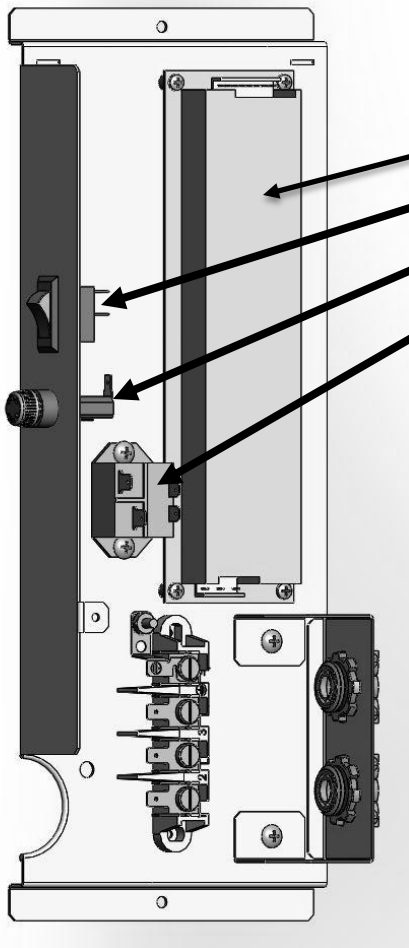
| Item | Description | Controller Alarm Display or Symptom | Part # | Action |
|------|-----------------------------------|--|-------------------------|---|
| 1 | Ambient Temp. Sensor | Err 1 / Err 6 | 1256245 | Sensor disconnected or out of range. Check sensor wire continuity to controller, or replace sensor |
| 2 | Evaporator Air Coil Temp. Sensor | Err 5 / Err 7 | 1256245 | |
| 3 | Evaporator Outlet Pressure Sensor | Err 3 | 1220143 | |
| 4 | Evaporator TX Outlet Temp. Sensor | Err 4 | 1256245 | |
| 5 | Evaporator Air Out Temp. Sensor | Err 2 | 1256245 | |
| 6 | Evaporator Fan Blade | Excessive noise from fan, blade wobble | 1220804 | Replace fan blade |
| 7 | Evaporator Fan Motor | Fan not turning, RSC not cooling | 1262025 | 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 | 1220789 | Confirm 24 VDC is getting to solenoid; replace solenoid |



SERVICE PARTS



- Other Replacement Items:**
- 1217228-2 LED, 2ft, 115VAC
 - 1239465-1 Honeycomb (RSC 6 & RSC 3)
 - 1239465 Honeycomb (RSC 4)
 - 1212704 Side Glass
 - 1213962 Lint Filter
 - 1215798 Air Dam (RSC 6 & RSC 3)
 - 1215798-1 Air Dam (RSC 4)
 - 1214585 Shelf Glass (7 pcs)
(not shown)
 - 1214594 Drain Strainer
(not shown)
 - 1216042 Controller
(not shown)



- 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



RSC Joining Assembly Instructions

Document Part #: 1222273

ECN: 55505

Rev: B

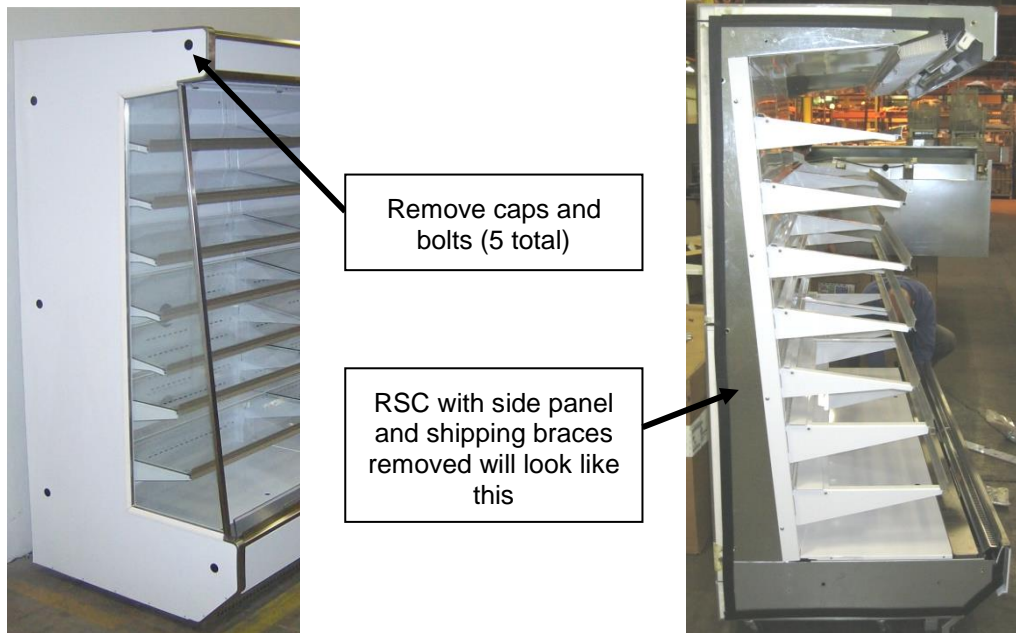
Date: 12-26-2014

Subject: Joining two RSC units

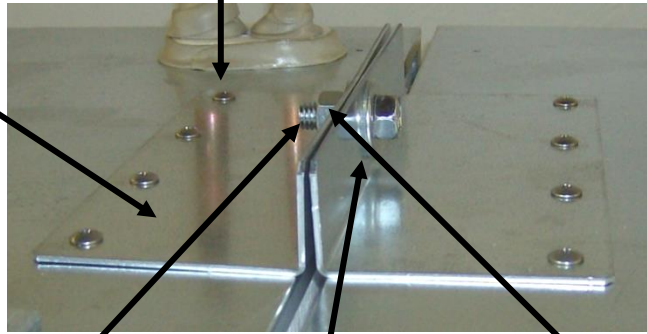
Parts List

| Quantity | Part Number | Description |
|----------|-------------|------------------------------|
| 1 | 1219868 | MULTI-UNIT BOLT ANGLE,RSC |
| 3 | V802291 | BOLT, 3/8-16, HEX HEAD |
| 6 | V801491 | WASHER, 3/8 ID |
| 3 | V800898 | NUT, 3/8-16 HEX |
| 8 | V802087 | SCREW, #8 TRUSS HD 1/2" LONG |
| 1 | 1241958 | PLATE, VALANCE ALIGNMENT |

If side panels are installed, remove side panels between the units to be joined by removing the 5 caps over the side panel bolts, removing the bolts, and then remove the side panel. If shipping braces are installed instead of side panels, remove shipping braces.



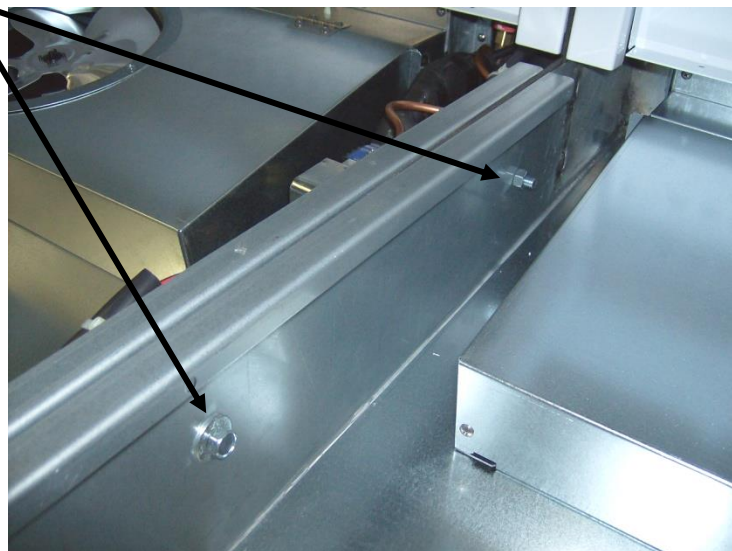
Add [1219868](#) angle plates to top. Put eight [V802087](#) screws into dimples in top.



Push units together and add [V802291](#) Bolt, 2 ea [V801491](#) washer and [V800898](#) nut.

Remove lower deck panels.

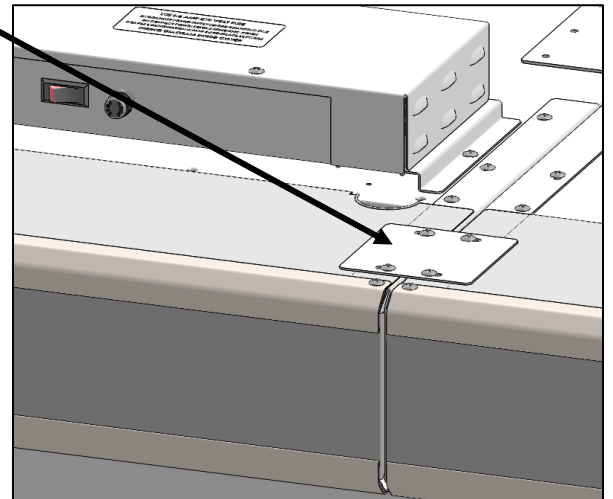
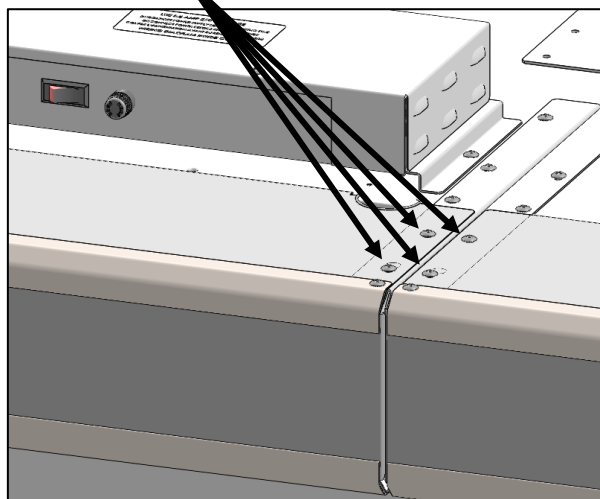
Add 2 ea [V802291](#) Bolt, 4 ea [V801491](#) washer and 2 ea [V800898](#) nuts.



Tighten all 3 nut and bolt sets. Reinstall lower deck panels.

Install Valance Alignment Plate:

Remove 4 screws. Locate [1241958 Valance Alignment Plate](#) as shown. Reinstall screws.





RSC Condensing Unit Frame Assembly & Installation

Kit #:1238795

Document Part #: 1238523

ECN: 56174

Revision: B

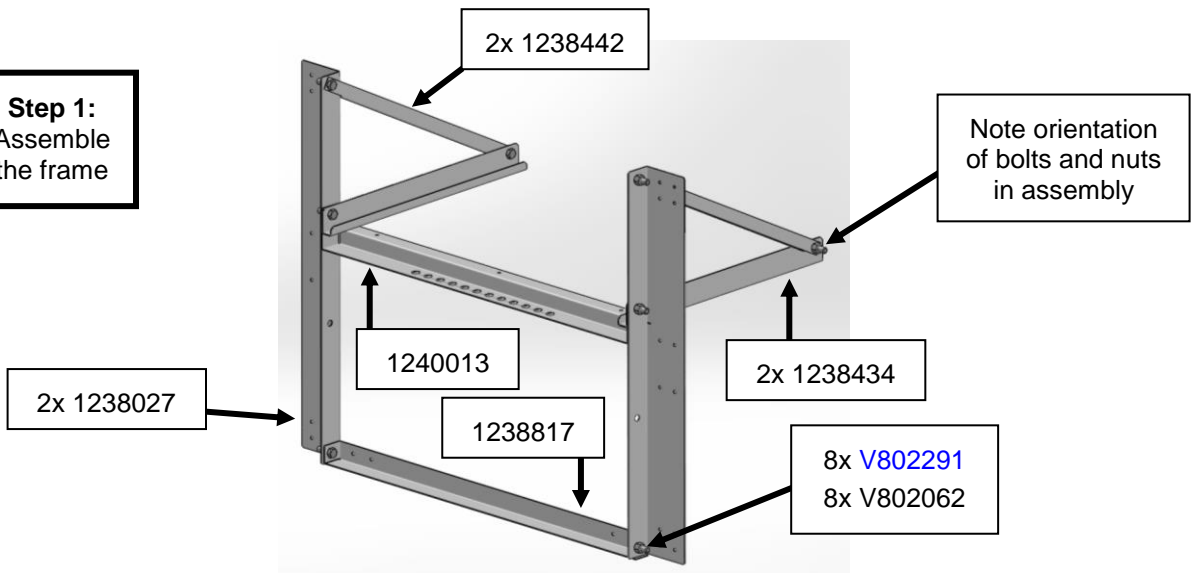
Date: 2-2-2016

Subject: INSTAL INSTRUC,RSC FRAME/REFRIG

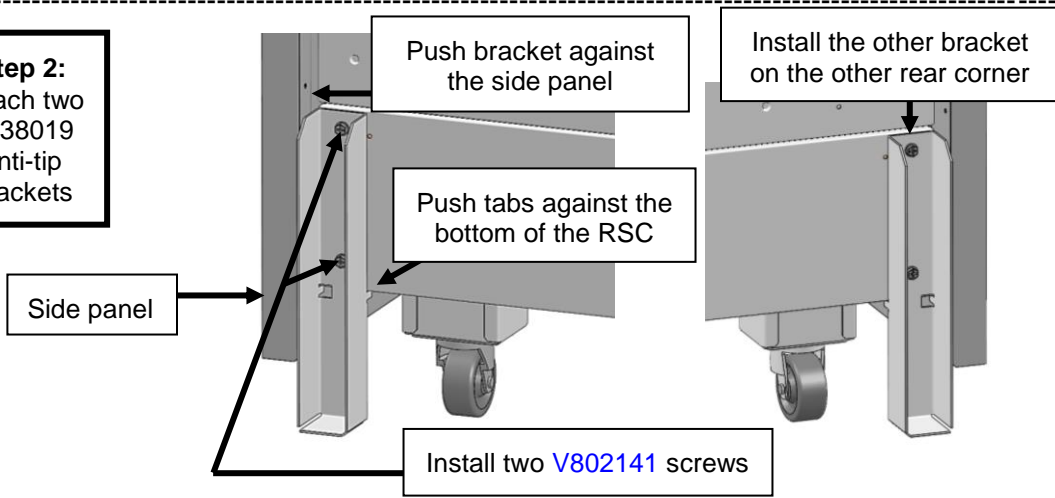
Parts List

| Quantity | Part Number | Description |
|----------|-------------|---------------------------------|
| 2 | 1238019 | Bracket, Anti-Tip |
| 2 | 1238442 | Bracket, Condenser, Angle |
| 2 | 1238027 | Bracket, Condenser, Vertical |
| 2 | 1238434 | Bracket, Condenser, U-Channel |
| 1 | 1240013 | Crossbrace, Upper, Condenser |
| 1 | 1238817 | Crossbrace, Lower, Condenser |
| 1 | 1240005 | Clamp, Condenser Tie-Down |
| 8 | V802291 | Bolt, 3/8-16 x 1 Hex Head |
| 8 | V802062 | Nut, 3/8-16, Nylok |
| 27 | V802141 | Screw, 10-16 x ½ Hex Head |
| 2 | V802087 | Screw, 8-15 x ½ Truss Head |
| 1 | 1028847 | Dryer C-053-S Sporlan |
| 1 | 1028855 | Sight Glass SA-13S Sporlan |
| 1 | 1246895 | Line set, Copper, RSC, 10 ft. |
| 1 | 1238523 | Instal Instruc,RSC Frame/Refrig |

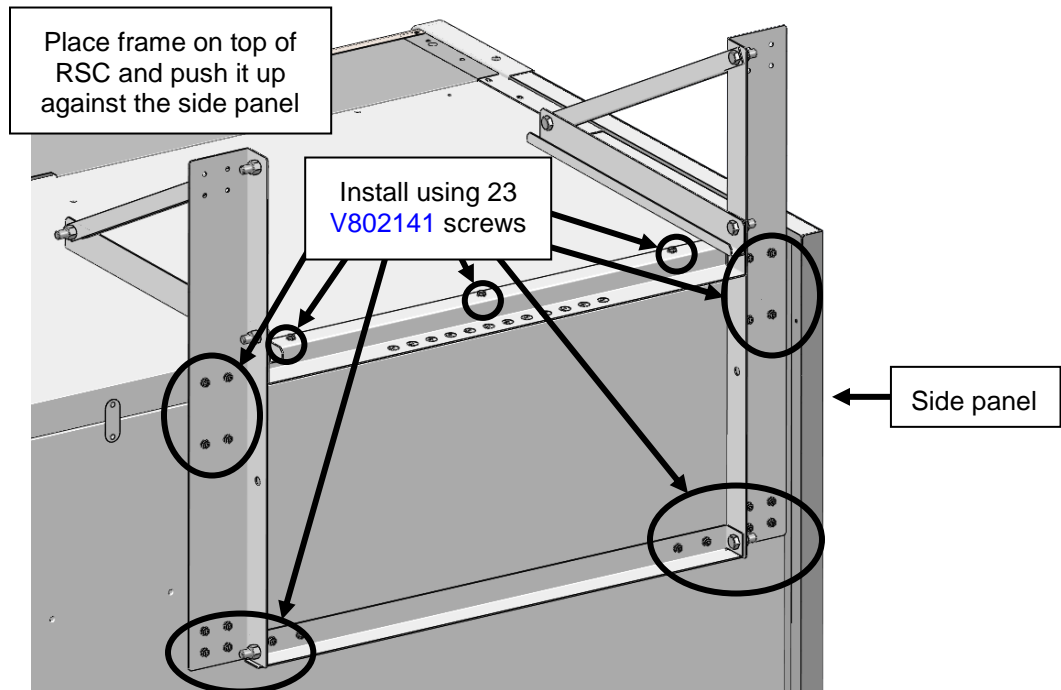
Step 1:
Assemble
the frame



Step 2:
Attach two
1238019
anti-tip
brackets

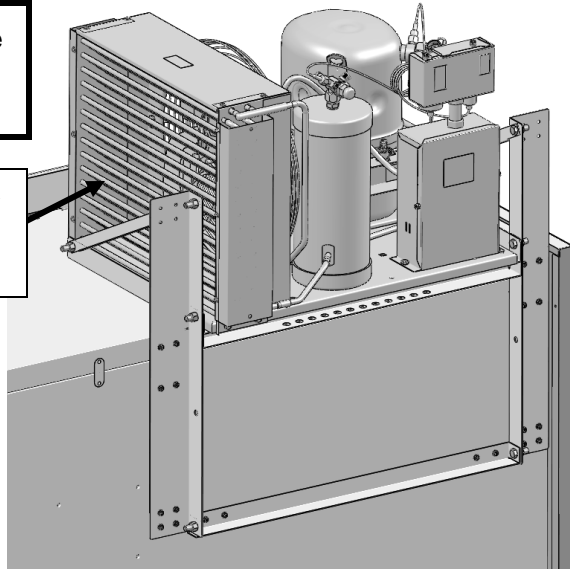


Step 3:
Attach
frame to
RSC



Step 4: Place condensing unit on frame

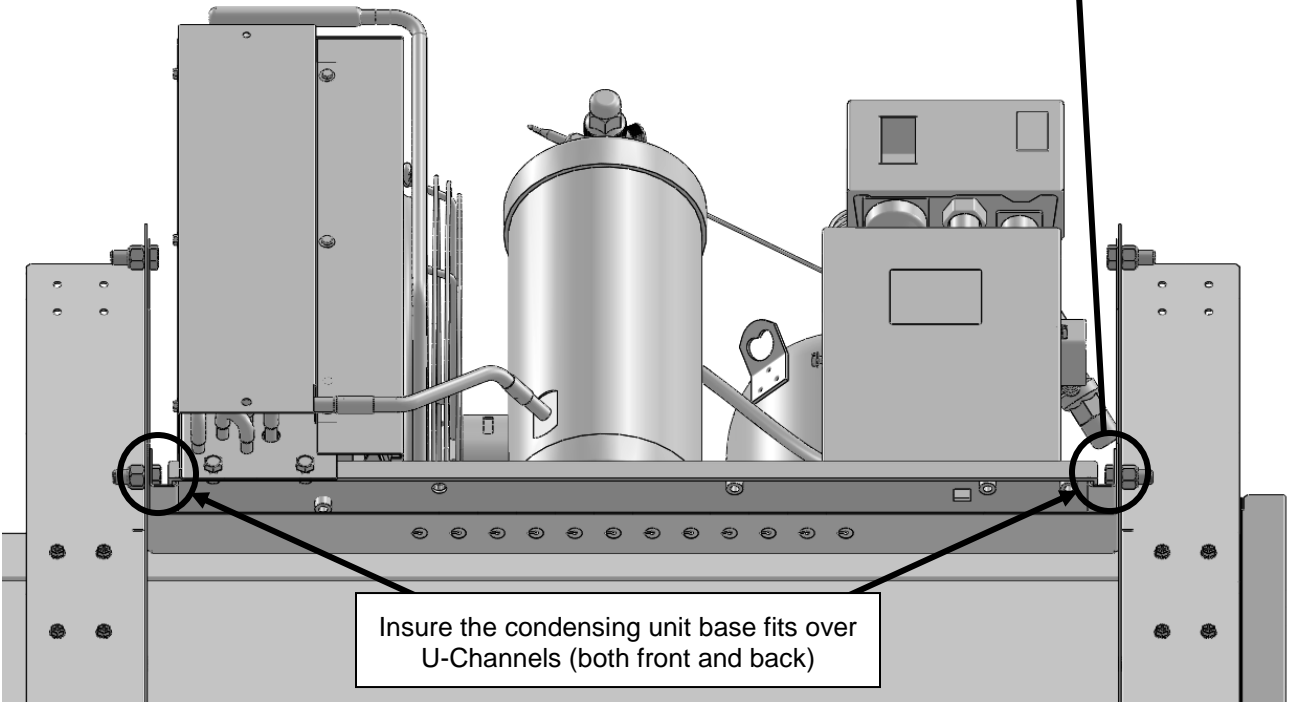
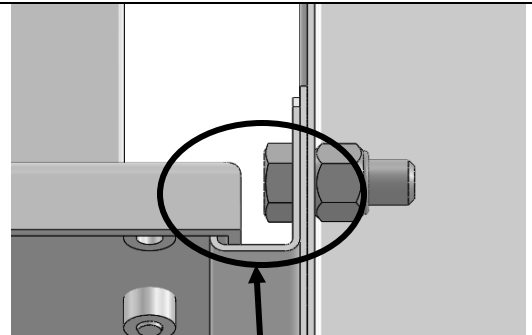
Condenser must be this side



Note: Condensing unit shipped separately

Note: Condensing unit is heavy, two or more persons should lift.

Note: The top of the RSC is not designed to support the condensing unit without the frame.



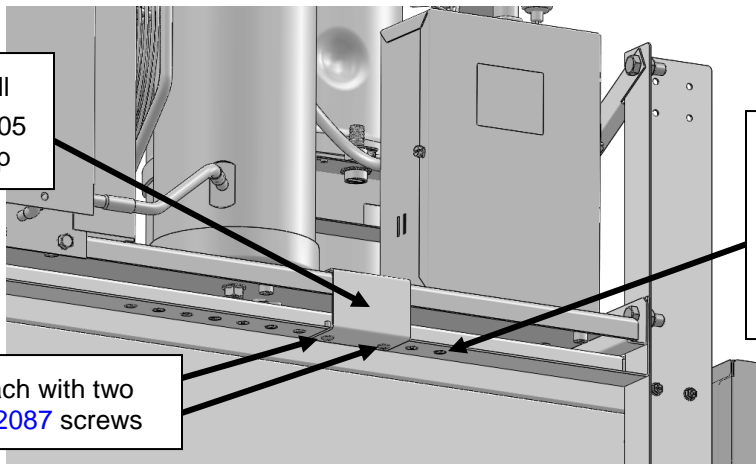
Insure the condensing unit base fits over U-Channels (both front and back)

Step 5: Install clamp

Install 1240005 clamp

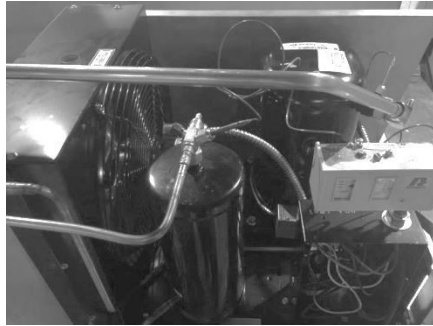
Attach with two V802087 screws

There are multiple mounting holes so the clamp can be located in a position that won't interfere with items on the condensing unit



Note: Steps 6 through 9 must be performed by a qualified refrigeration technician.

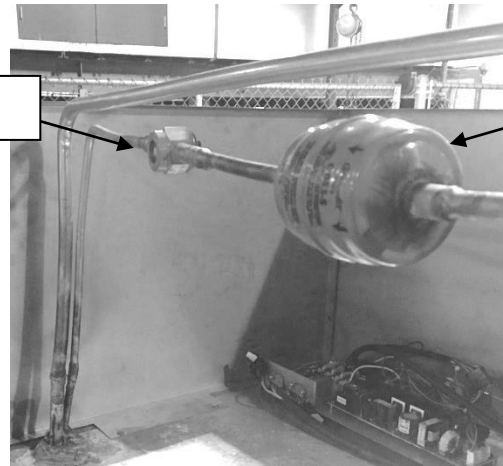
Step 6: Using the provided line set, connect the outlet and inlet of the display case to the condensing unit as shown in the pictures.



Note: The line set should NOT be cut but coiled up to the right length. Install the provided filter/drier and sight glass on the liquid line.

1028855

1028847



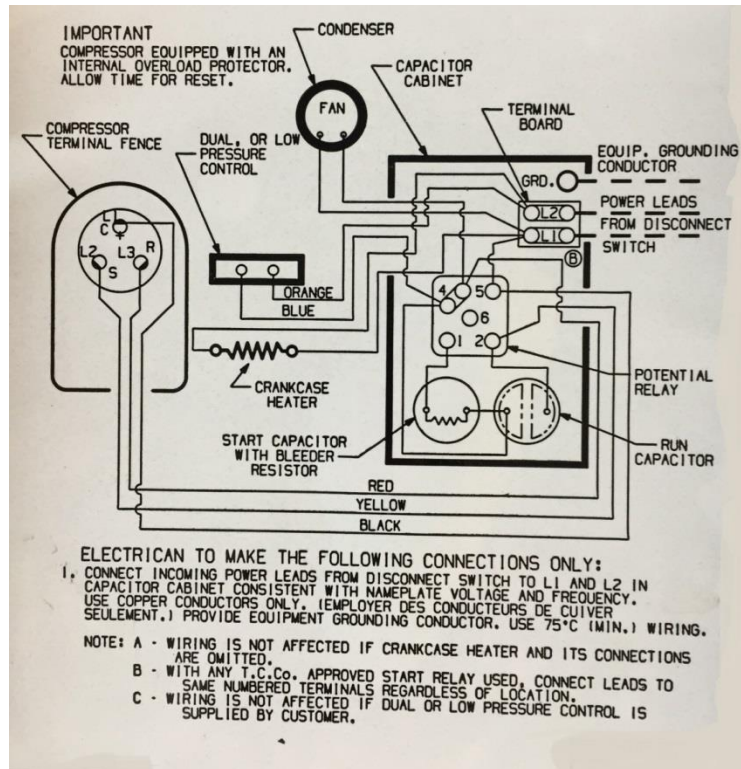
Step 7: Insulate the suction line using the insulation provided in the kit.



Step 8: Connect the electrical box on the condensing unit to a power source as shown in the attached figure. The condensing unit is rated for 208/230V-1-60.

VDPTCU005 = 21.6A MCA

VDPTCU006 = 14.9A MCA



Step 9:

- Confirm that the unit is free of leaks using pressurized nitrogen at approximately 150 psig and then pull a vacuum down to 200 microns for at least 30 minutes.
- Charge the unit with 3 lbs. of R404a into the receiver. Break the vacuum on the low side prior to starting the unit.
- Turn 'ON' the power to the condensing unit and the display case. Turn the display case 'ON'. The high side pressure should be approximately 30°F above the ambient temperature. Add refrigerant if needed.
- Set the low pressure switch to 40 PSIG with a differential of 30 PSIG.
- Wait for at least 1 hour prior to placing product in the unit.