

# Oasis<sup>®</sup> USER MANUAL

SCC P/N  
20-30109

MODEL FSC463R & FSC663R REFRIGERATED GRAB-N-GO MERCHANDISER



Model FSC463R Merchandiser Shown With Product  
For Illustrative Purposes Only / This Unit is Similar to FSC663R

**Structural Concepts<sup>®</sup>**

DELIVERING FRESH. ALWAYS.™

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## OVERVIEW

- These Structural Concepts merchandisers are designed to merchandise packaged products at 41 °F (5 °C) or less product temperatures.
- Cases should be installed and operated according to this operating manual's instructions to ensure proper performance. Improper use will void warranty.

## NSF/ANSI TYPE I vs. II ENVIRONMENTAL CONDITIONS

This unit is designed for the display of products in ambient environmental conditions where temperatures and relative humidity are maintained within a specific range.

- NSF/ANSI Type I Conditions: Product is displayed in store conditions with maximum ambient temperature of 75 °F (24 °C) and relative humidity of 55%.
- NSF/ANSI Type II Conditions: Product is displayed in store conditions with maximum ambient temperature of 80 °F (27 °C) and maximum relative humidity of 55%.

- If unsure if your unit is classified as NSF/ANSI Type I or Type II, see tag next to serial label on your case.

## COMPLIANCE

- Performance issues when in violation of applicable NEC, federal, state and local electrical and plumbing codes are not covered by warranty. See below.

## WARNINGS

- This sheet contains important warnings to prevent injury or death. Please read carefully!

## PRECAUTIONS, MAINTENANCE & WIRING DIAGRAM INFORMATION

- See next page for **PRECAUTIONS, MAINTENANCE** and **WIRING DIAGRAM** information.



### COMPLIANCE

This equipment **MUST** be installed in compliance with all applicable NEC, federal, state and local electrical and plumbing codes.

## WARNING

ELECTRICAL  
HAZARD



### WARNING

Risk of electric shock. Disconnect power before servicing unit.  
**CAUTION!** More than one source of electrical supply is employed with units that have separate circuits.  
*Disconnect ALL ELECTRICAL SOURCES before servicing.*

## WARNING

KEEP  
HANDS



### WARNING

Hazardous moving parts. Do not operate unit with covers removed.  
Fan blades may be exposed when deck panel is removed.  
Disconnect power before removing deck panel.



### WARNING! POWER CORD AND PLUG MAINTENANCE

Risk of electric shock. If cord or plug becomes damaged, replace only with cord and plug of same type.



**WARNING:** This product can expose you to chemicals, including Urethane (Ethyl Carbamate), which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to [P65Warnings.ca.gov](http://P65Warnings.ca.gov).

### PRECAUTIONS

- This sheet contains important precautions to prevent damage to unit or merchandise. Please read carefully!

### WIRING DIAGRAM

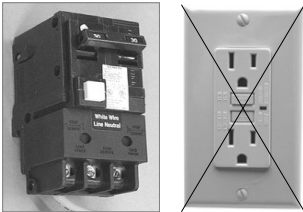
- Each case has its own wiring diagram folded and in its own packet.
- Wiring diagram placement may vary; it may be placed near ballast box, field wiring box, raceway cover, or other related location.

### REFRIGERANT DISCLOSURE STATEMENT

- This equipment is prohibited from use in California with any refrigerants on the "List of Prohibited Substances" for that specific end-use, in accordance with California Code of Regulations, title 17, section 95374.
- This disclosure statement has been reviewed and approved by Structural Concepts and Structural Concepts attests, under penalty of perjury, that these statements are true and accurate.



**CAUTION! LED LAMP REPLACEMENT GUIDELINES**  
LED lamps reflect specific size, shape and overall design.  
Any replacements must meet factory specifications.



**CAUTION! GFCI BREAKER USE REQUIREMENT**  
If N.E.C. (National Electric Code) or your local code requires GFCI (Ground Fault Circuit Interrupter) protection, you **MUST** use a GFCI breaker in lieu of a GFCI receptacle.



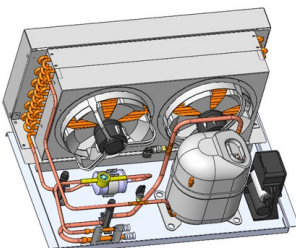
### CAUTION! ADVERSE CONDITIONS / SPACING ISSUES

- Performance issues caused by adverse conditions are **NOT** warranted.
- To prevent damage to end panels due to condensation, apply industrial grade silicone sealant and tightly join to opposite end panels. When not adjoining cases, keep end panels at least 6" away from walls and structures. Rear panels must also be kept at least 6" from walls and structures.
- Case must not be exposed to direct sunlight or any heat source.
- To maintain proper case temperature, keep case at least 15-feet from exterior doors, overhead HVAC vents or any air curtain disruption.
- Self-contained case clearance: 6" min. air intake / 6" min. air discharge.



### CAUTION! DO NOT RELY ON THERMOMETERS OR THERMOSTATS FOR PRODUCT (FOOD) TEMPERATURES.

- Thermometers & thermostats reflect air temperatures **ONLY**.
- For **ACTUAL** product (food) temperatures, use a calibrated food probe thermometers **ONLY**.
- For accurate readings, **DO NOT** use infrared food thermometers.



### CAUTION! CHECK CONDENSATE PAN, ITS POSITION & PLUG!

Water on flooring can cause extensive damage!

- Before powering up case, check that condensate pan is positioned directly under case's condensate drain.
- Before powering up case, check that condensate pan's electrical plug is **SECURELY** connected to condensate system's receptacle.
- If wicking material is used in condensate pan, check that it is secure.

## REMOVAL OF CASE FROM SKID / POSITIONING UNIT

### 1. Remove Unit From Skid

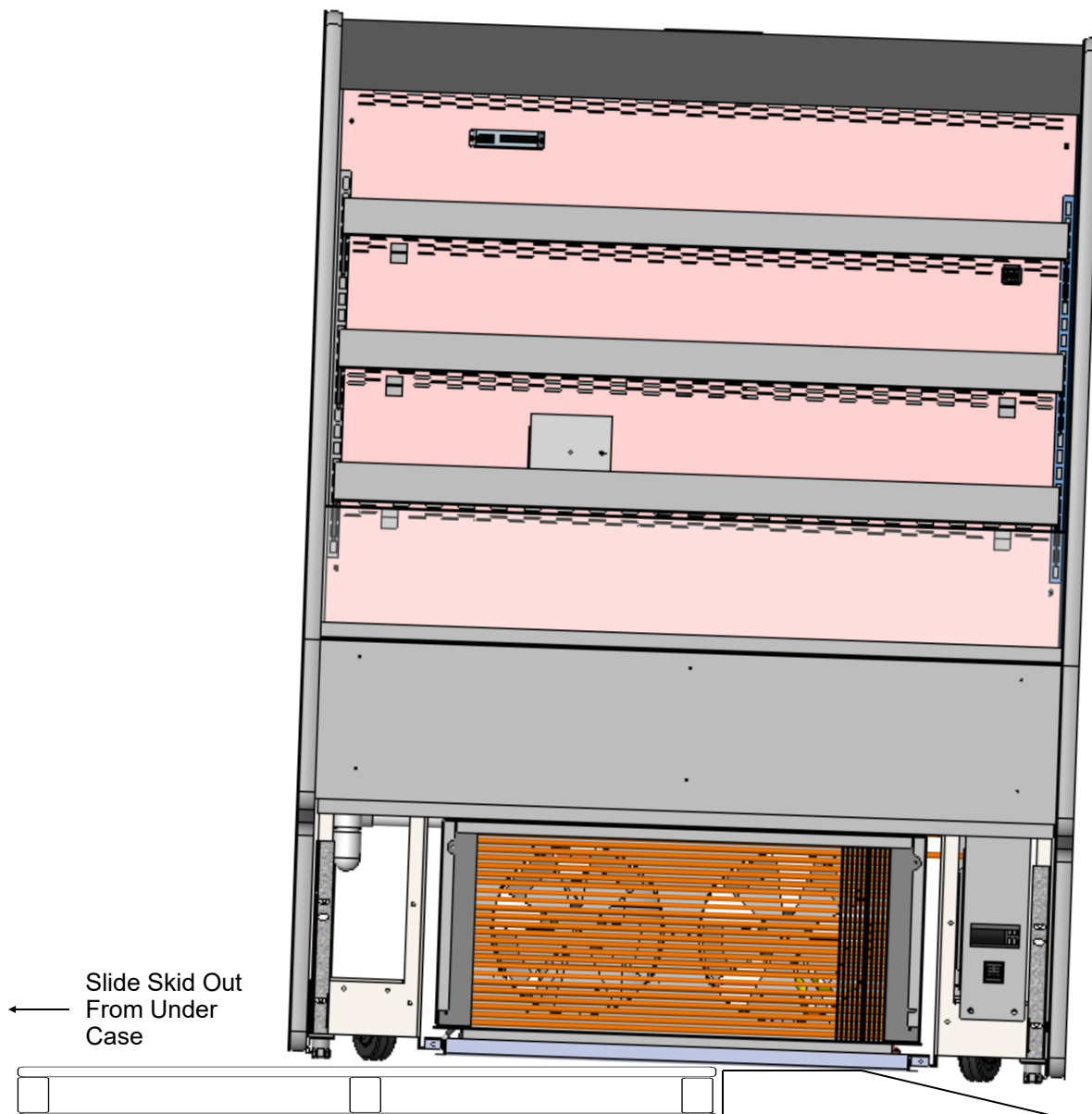
*For your safety, the equipment is furnished with a properly grounded cord connector. Do not attempt to defeat the grounded connector.*

- **Caution! Remove BOTH lower panels from case before removing from skid to prevent buckling.**
- Illustrations below show case being removed from skid.

- Place case in proper location.
- Plug cord into certified electrical outlet with ground.

### 2. Positioning Unit

- Place unit into desired location before leveling.
- See next page for specifics about leveling.



## ADJUSTING LEVELERS

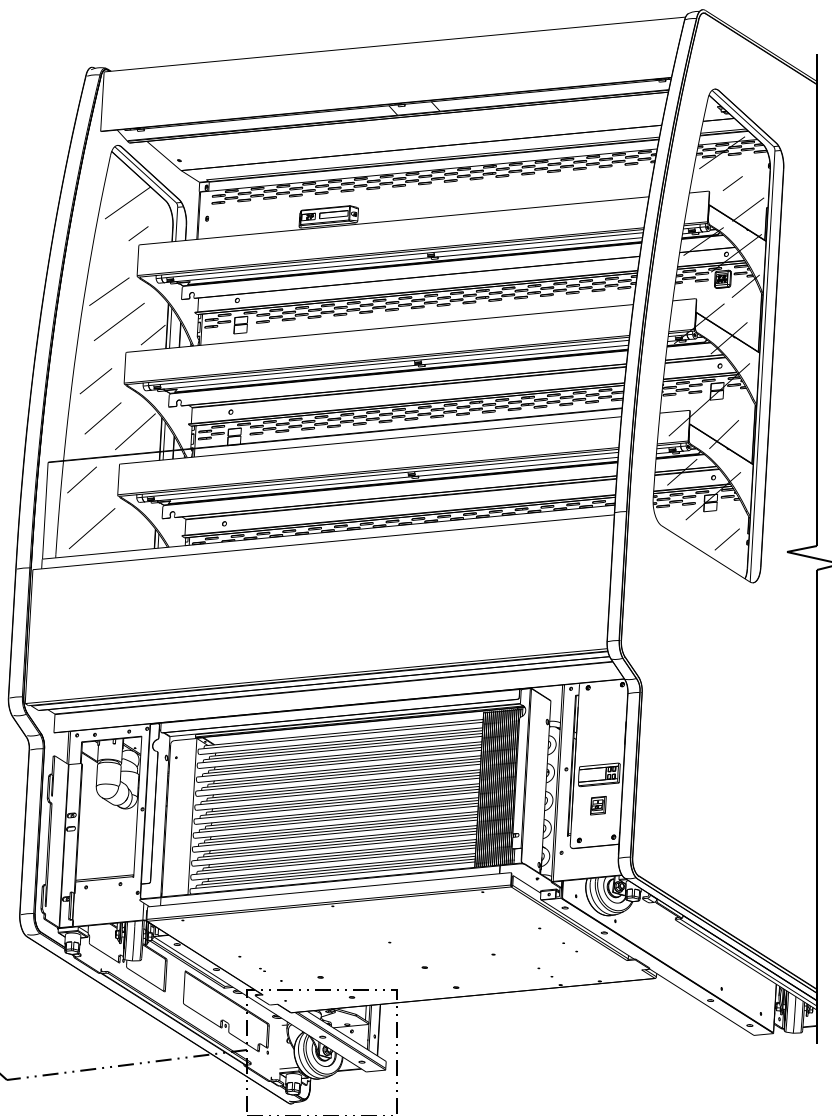
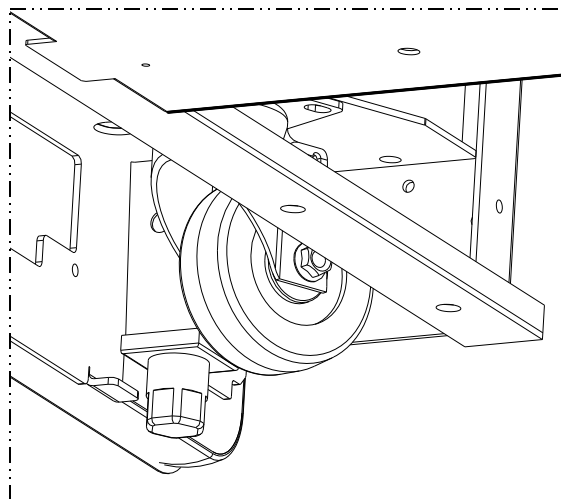
### **Adjust Levelers**

- After case is in position, adjust case so it is level and plumb.
- You may need to remove front and/or rear toe-kick to access levelers.

- Use adjustable wrench (and/or a pry bar) to adjust leveler.
- Do not use Pry Bar on Toe-Kick as it will buckle.
- Do not use Pry Bar on End Panel. It may chip.
- Use Pry Bar ONLY on Base Frame to avoid damaging case.



Pry Bar



### 1. Field Wiring Box / Access

- **Warning! Turn power off and/or disconnect power before providing maintenance and service to unit.**
- **Assembly/disassembly/servicing to be performed by licensed electrical contractor.**
- Panel must be removed to access field wiring box and main power switch.
- See illustration below.

### 2. Panel Removal

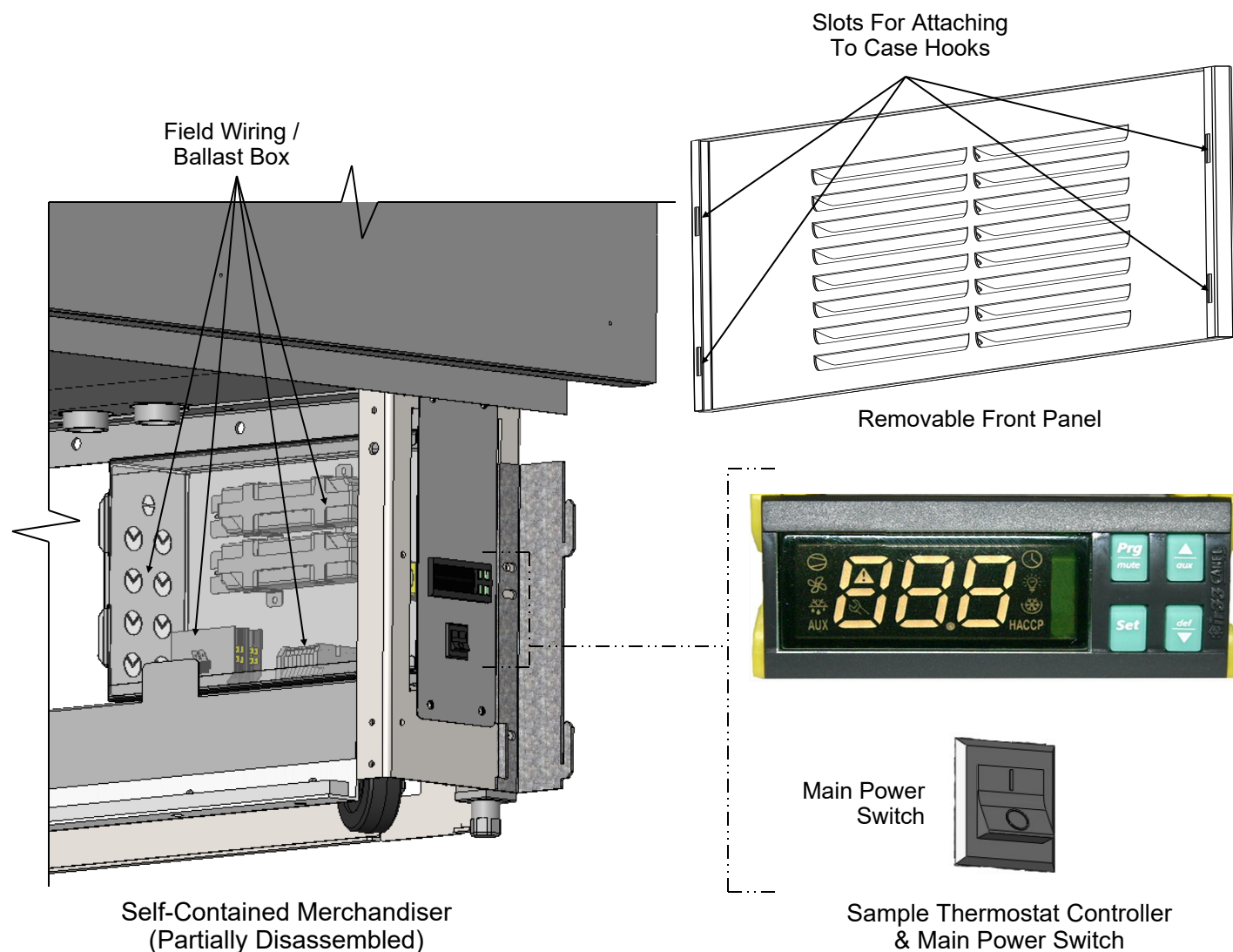
- To remove panel (and access field wiring box), lift panel up and off case hooks by grasping firmly and pulling up and outward.
- See illustration at top-right.

### 3. Main Power Switch

- For self-contained cases, the main power switch controls power to entire case.
- If main power switch is not turned on, lights will not turn on NOR will refrigeration components operate.
- See illustration below.

### 4. Temperature Control

- Illustration below shows location of temperature controller (after removal of front panel).
- See **PROGRAMMABLE CONTROLLER** section in this User Manual for specifics on settings.



### 1. Merchandiser Versatility

- Structural Concepts cases can accompany either floor or ceiling-originated electrical and/or refrigeration lines.
- This page shows how ceiling-originated lines are routed into case.

### 2. Ceiling Routed Electrical/Refrigeration. Lines

- A center pass-through protective plate is mounted at top of case over two (2) PVC center pass-throughs.
- If electrical/refrigeration lines are ceiling-originated, remove plate knockouts.
- Electrical and/or refrigeration lines may then be dropped through PVC center pass-throughs.
- **Caution! If ceiling-originated lines are used, you MUST seal both upper and lower PVC**

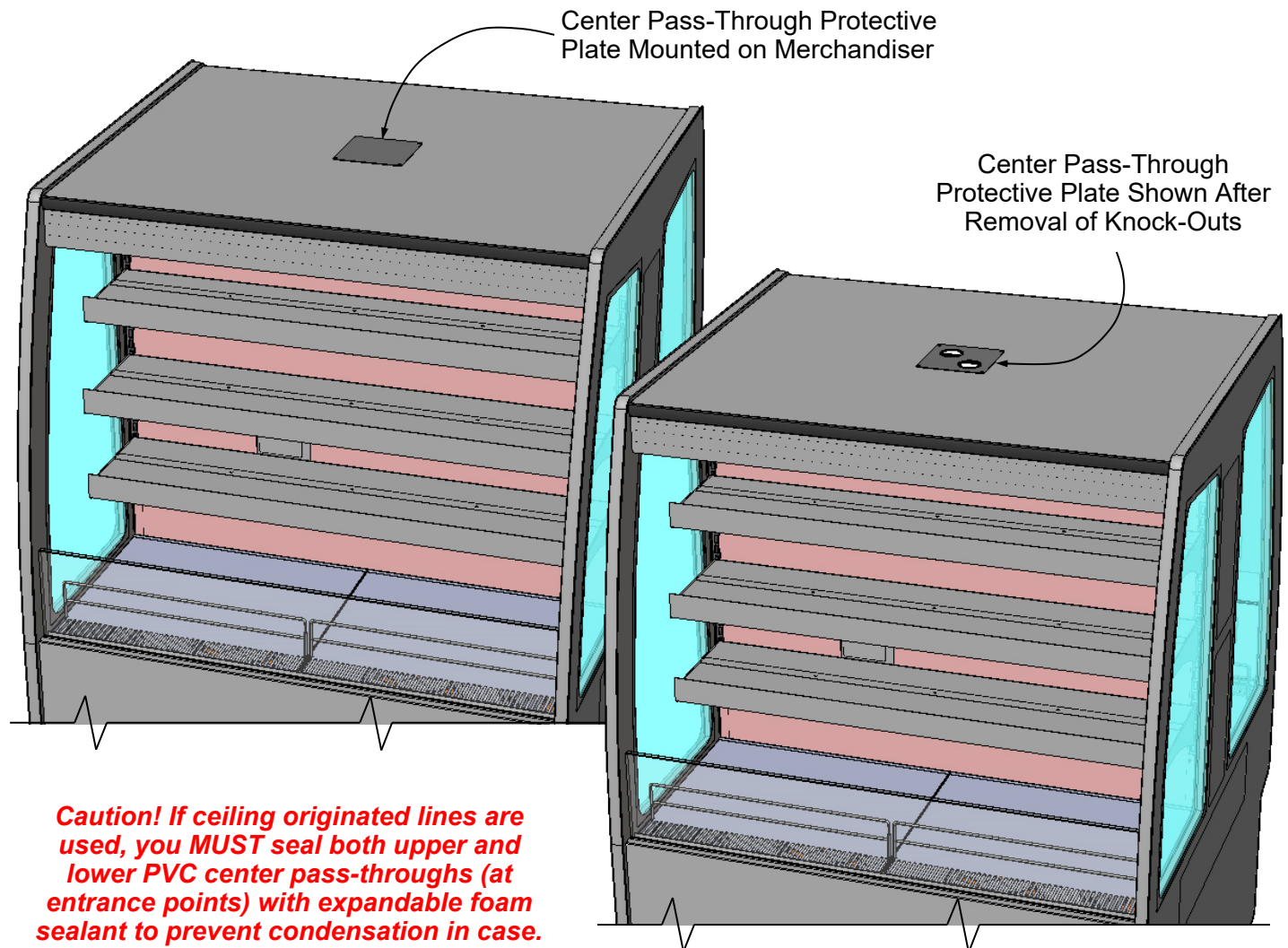
**center pass-throughs (at entrance points) with expandable foam sealant to prevent condensation in case.**

### 3. Plate Removal

- Note: Though not required, protective plate can be removed from merchandiser via four (4) screws.

### 4. Case Underside

- See **REFRIGERATION FUNDAMENTALS: UNDERSIDE LAYOUT (BOTH SELF-CONTAINED & REMOTE)** section in this manual for location of center pass-throughs at underside of case.



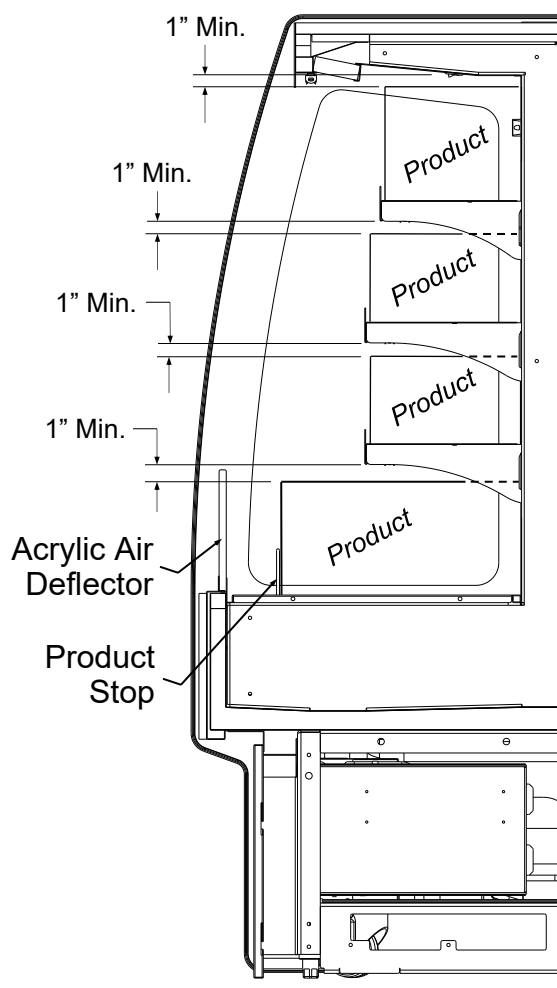
**Model FSC463R and FSC663R Plan-O-Gram (Load Level Guidelines)**

> **Note:** Any changes to this document must also be made to SCC User Manual P/N 20-30109.

**CAUTION! TO MAINTAIN SAFE PRODUCT TEMPERATURES AND AIRFLOW CAREFULLY FOLLOW THESE GUIDELINES:**

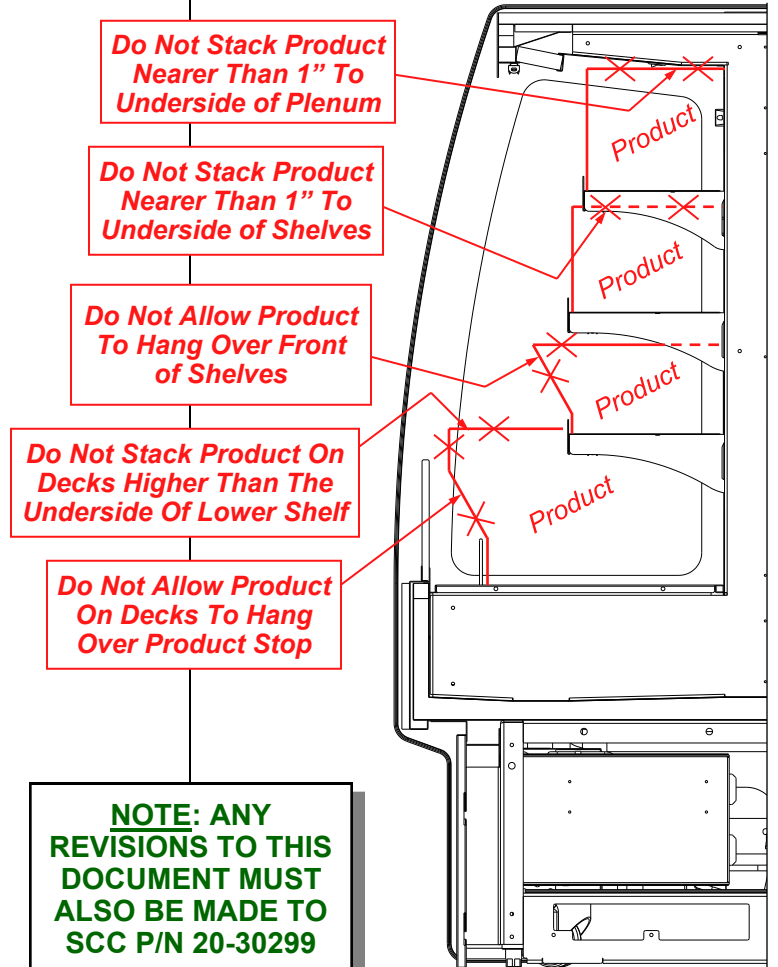
- ♦ DO NOT STACK PRODUCT NEARER THAN 1" TO UNDERSIDE OF PLENUM
- ♦ DO NOT STACK PRODUCT NEARER THAN 1" TO UNDERSIDE OF SHELVES
- ♦ DO NOT ALLOW PRODUCT TO HANG OVER FRONT OF SHELVES
- ♦ DO NOT STACK PRODUCT ON DECKS HIGHER THAN UNDERSIDE OF SHELF
- ♦ DO NOT ALLOW PRODUCT ON DECKS TO HANG OVER PRODUCT STOP

**ACCEPTABLE  
PRODUCT PLACEMENT**



--- SIDE VIEW ---

**UNACCEPTABLE  
PRODUCT PLACEMENT**



**NOTE: ANY  
REVISIONS TO THIS  
DOCUMENT MUST  
ALSO BE MADE TO  
SCC P/N 20-30299**

--- SIDE VIEW ---

## 1. Digital Thermometers

Digital thermometers are located on rear plenum at upper area of case.

- Digital thermometers are on BOTH side of case.
- See enlarged illustration at lower-left.

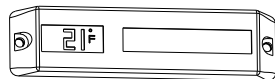
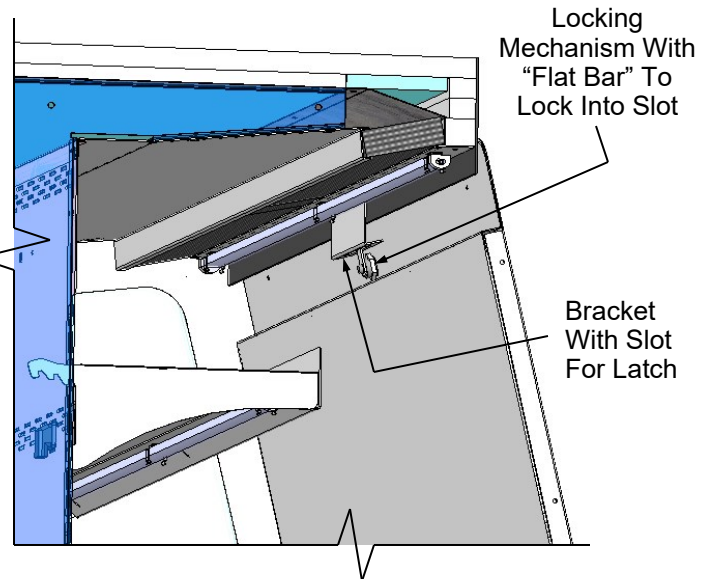
## 2. Security Cover Installation (Optional)

- Place security cover inside lower retainer bracket. See illustration of random unit with lower retainer bracket at below-right.
- Lean security cover against header at top of unit.
- With key inserted in the lock, rotate the locking mechanism's "flat bar" into the bracket with slot at center of case. See illustration at top-right and mid-right.

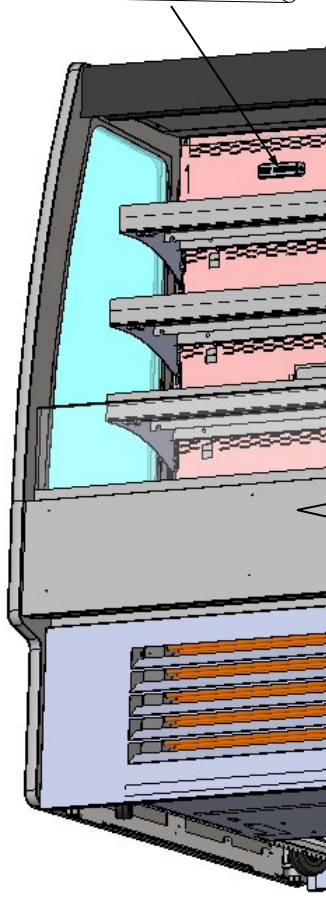
## 3. Security Cover Removal (Optional)

- With key inserted in the lock, rotate the locking mechanism's "flat bar" out of the bracket with slot (as shown in top-right illustration).

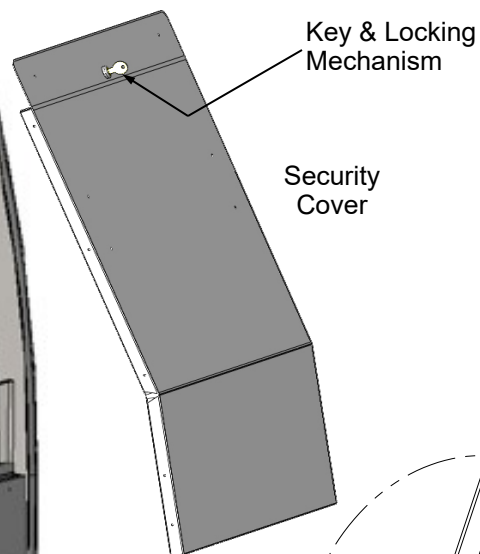
- Lean security cover away from header at top of unit.
- Holding security cover handles (or grasping sides of security cover, if no handles), lift security cover up and away from header. See illustration below-right



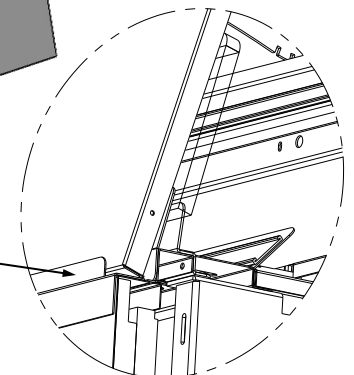
Digital Thermometer



Header



Sample View of Lower Retainer Bracket (Rotated For Illustrative Purposes Only)



## POWER-UP CHECK (EVAPORATOR FAN AREA)

### **Power-Up Check (Evaporator Fan Area) On Both Sides of Merchandiser**

After power has been supplied, evaporator coil fans will be operational.

- To verify fans are operational, lift up deck pans; check to see that the coil fans are functioning properly.
- See illustration below (partially disassembled for illustrative purposes only).

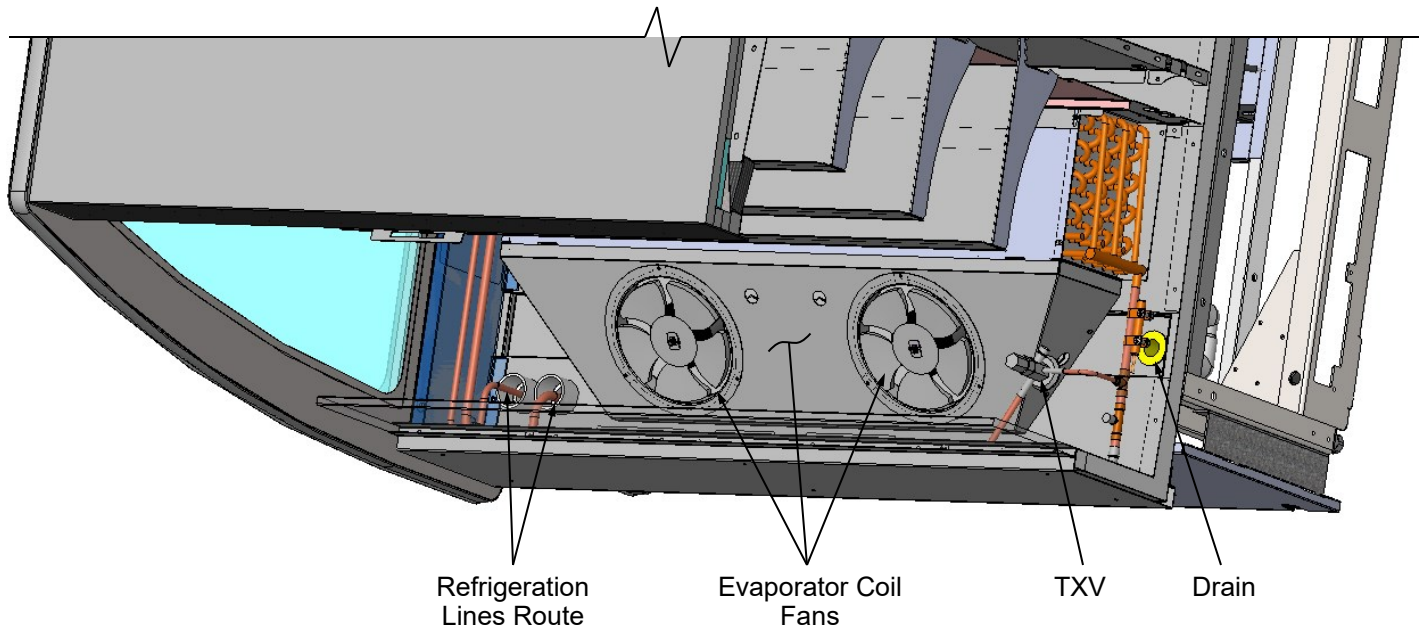


Illustration Shown May Not Exactly  
Reflect Every Feature or Option of  
Your Particular Case

### **1. Airflow/Temperature Requirements**

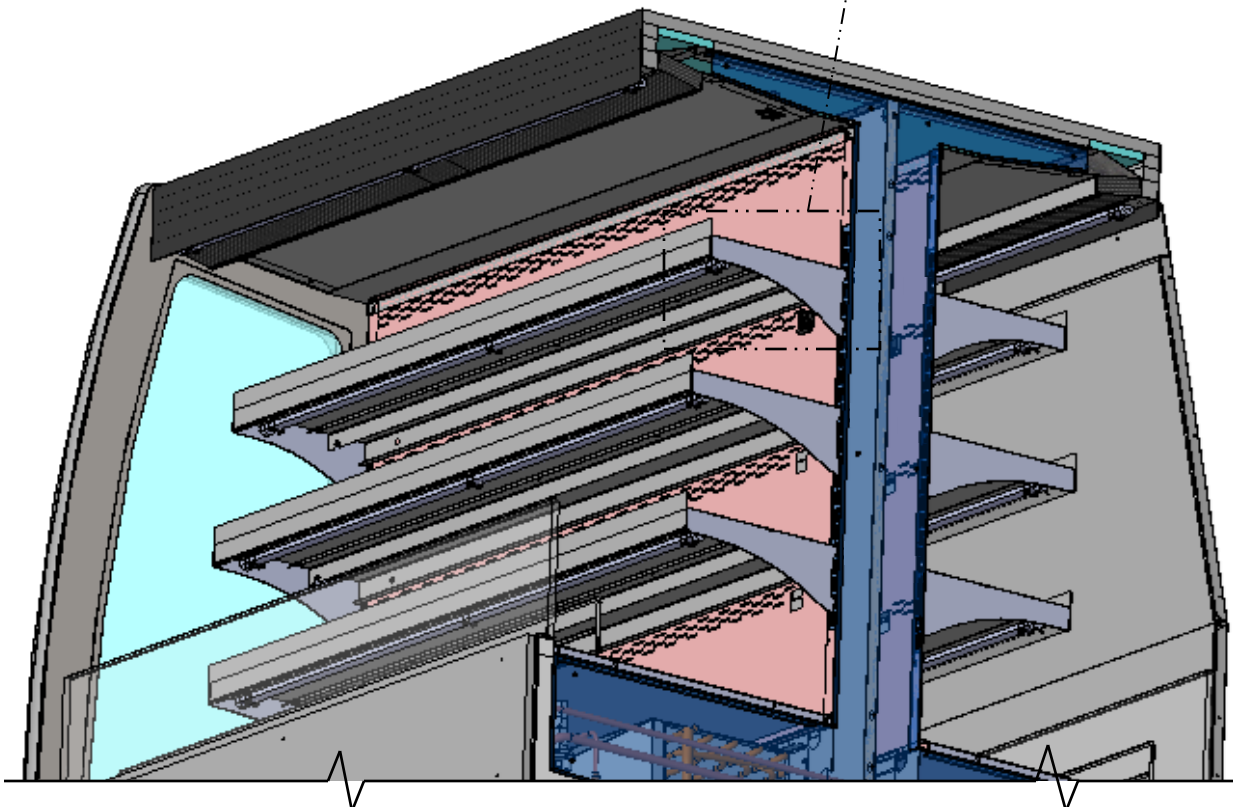
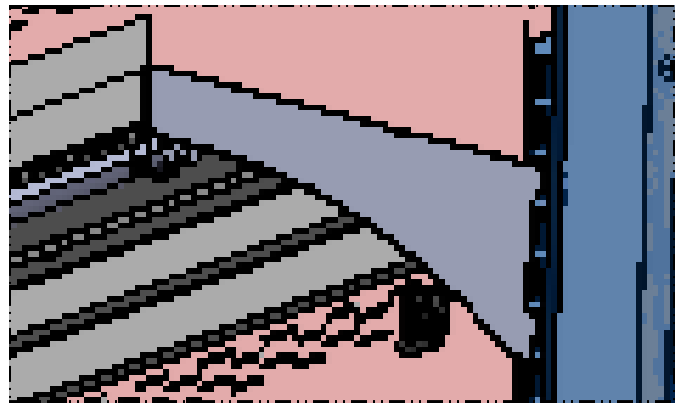
- This merchandiser is tested in the factory to maintain airflow and temperatures in a very narrow range.
- The positioning of each shelf/bracket assemblies in its specific slot is crucial to maintaining this factory set temperature and airflow.

### **2. Shelf / Bracket Assembly**

- Shelf/bracket assemblies ARE NOT to be adjusted or moved from their factory determined slots.
- Item 3 below provides an exception to this guideline.

### **3. Shelf / Bracket Assembly Removal**

- Cleaning can usually be accomplished WITHOUT the removal of the shelf/bracket assembly.
- Should stubborn stains or residue require removal of shelf/bracket assembly however, see **GENERAL CLEANING (TO BE PERFORMED BY STORE PERSONNEL) - EXTERIOR / INTERIOR** section in this manual for specifics.



### **1. LED Light Switch**

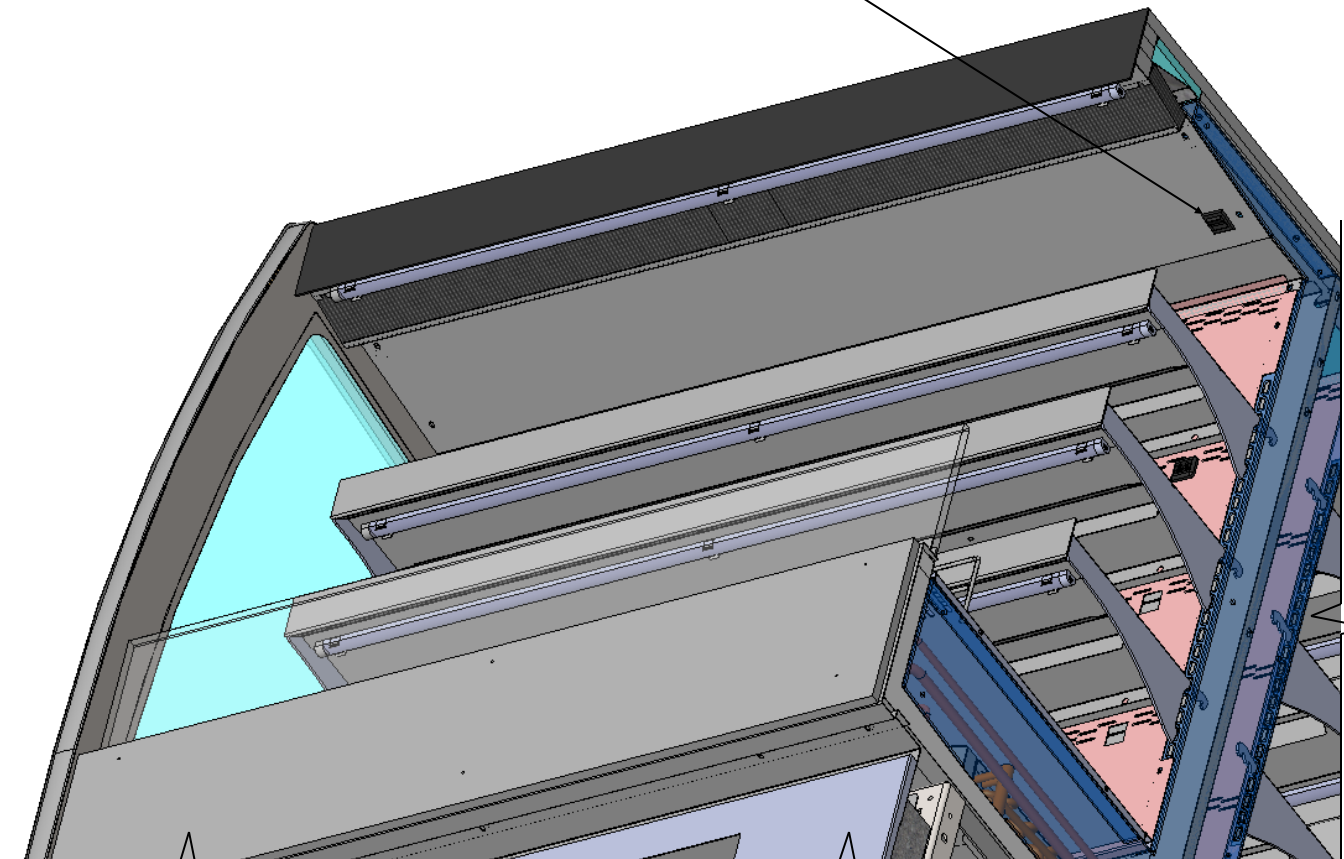
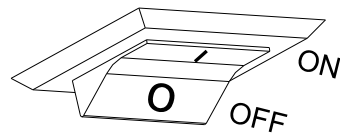
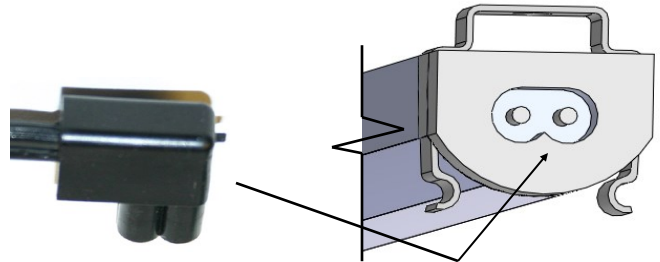
- LED light switch to entire case is always located in upper section of the case.
- See illustration below.

### **2. LED Light Fixtures**

- Light fixtures are located in upper section of the case (in front of honeycomb) and under shelving.

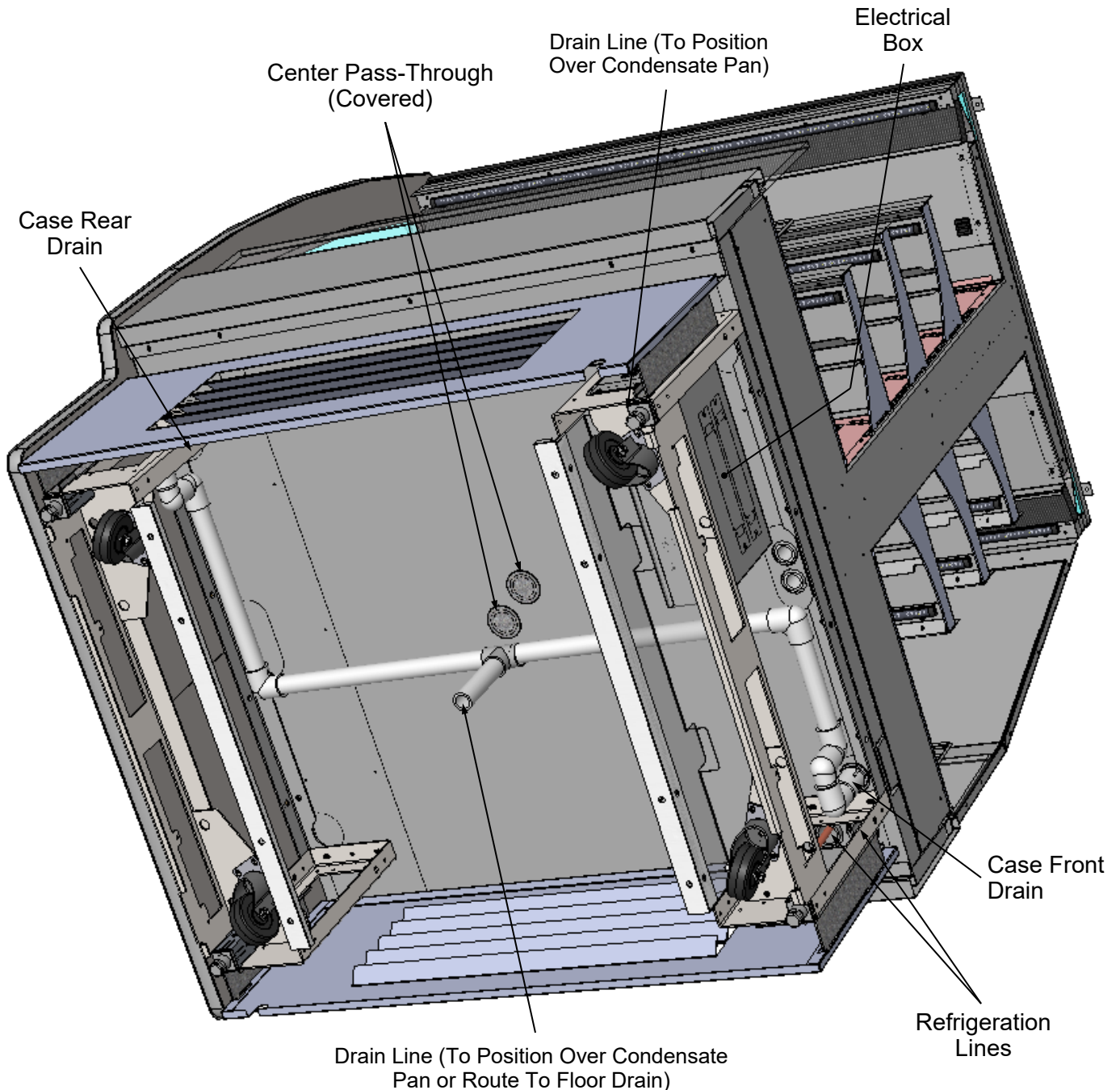
### **3. LED Light Fixture Removal and Replacement**

- This case is provided with mini-LED lights which will rarely require change-out.
- To remove LED light fixture, disconnect the existing LED light from its brackets. Replace.
- Note: LED Plug must be connected in a specific manner or they will not work.
- Oval form of plug must connect to oval form of LED light. See illustrations at top-right.



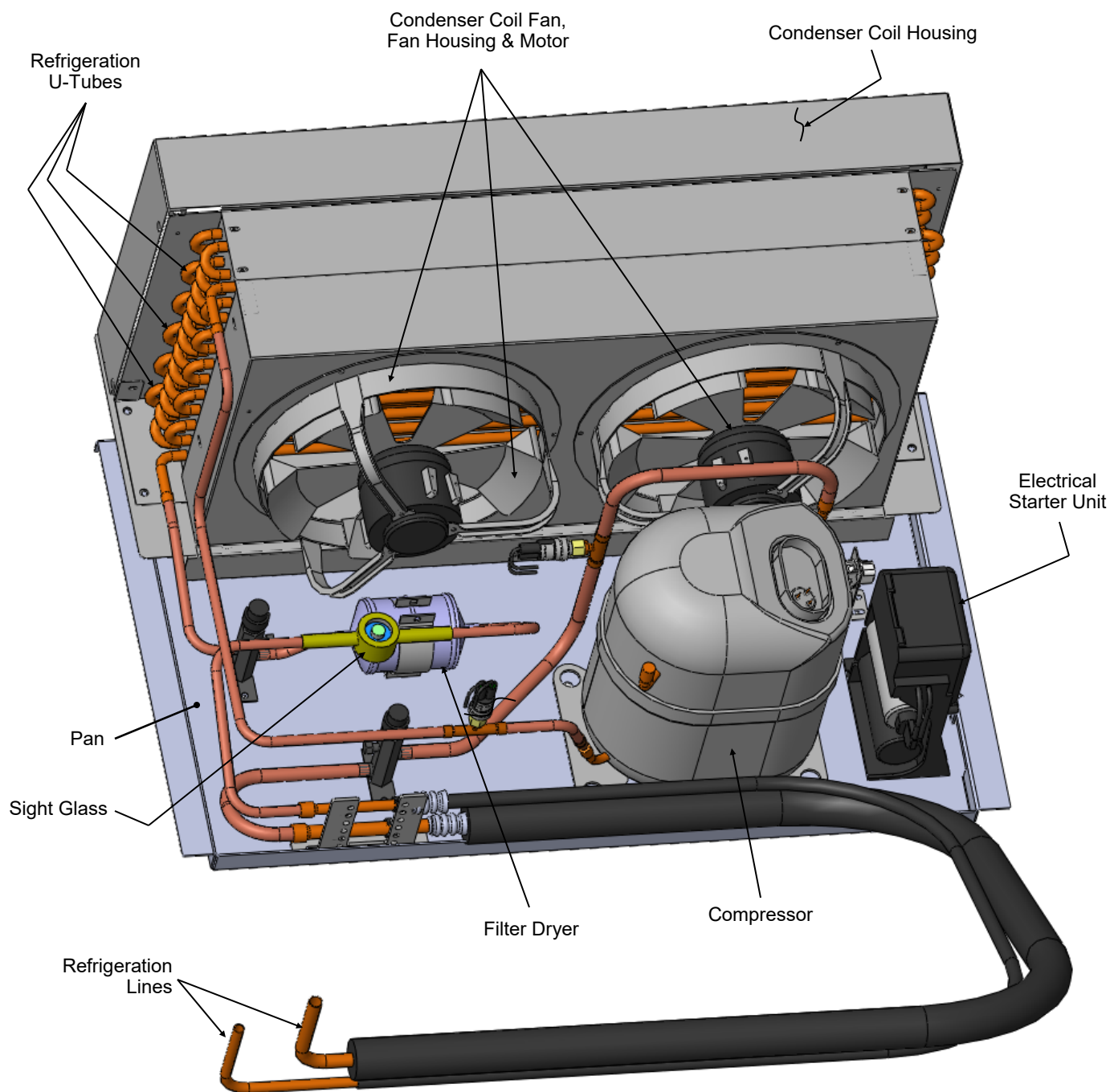
### ***Self-Contained & Remote Refrigeration Line Access, Connections & Servicing To Be Accomplished By Licensed Contractors Only***

- Partially-disassembled illustration below shows location of refrigeration lines for self-contained operation.
- Two (2) drains accessible from top of unit by lifting up decking.
- See **POWER-UP CHECK (EVAPORATOR FAN AREA)** section in this manual for under decking drain illustration.



### ***Self-Contained Merchandiser's Condensate Unit Illustrated Parts Breakdown***

- Assembly/disassembly and servicing to be performed by licensed refrigeration contractor.



## GENERAL CLEANING (TO BE PERFORMED BY STORE PERSONNEL) - EXTERIOR / INTERIOR

FREQ.	AREA / INSTRUCTIONS
Daily	<u>Deck/Rear Plenums</u> : Clean with a warm soap and water solution. For stubborn stains and residue, TURN MAIN POWER SWITCH OFF. Remove deck and clean with soap and water solution or submersed in hot, soapy water solution. Rinse thoroughly. Dry. Return to case. Turn main power switch back on.
Daily	<u>Glass Surfaces (Sides)</u> : Clean with household or commercial glass cleaner.
Weekly	<u>Shelving/Bracket Assemblies</u> <ul style="list-style-type: none"> <li>Wipe off shelf/bracket assemblies with moist cloth.</li> <li>Brackets and shelving CAN BE removed for more thorough cleaning. Caution! Removal of shelving/bracket assemblies should ONLY be performed when stubborn stains or residue CANNOT be removed with shelving/bracket assemblies remaining on case.</li> <li>To remove shelf/bracket assembly, simply lift upward and out.</li> <li><u>Caution</u>: As LED lighting is attached to underside of shelving, you must disconnect LED wire from its connectors. Due to the electrical components, DO NOT submerge shelving/bracket assemblies while cleaning.</li> <li>Clean with mild soap and water solution and a non-abrasive soft cloth. For stubborn stains use a nylon brush. DO NOT use abrasive cleaners or Brillo® pads, as these can destroy the shelf/bracket finish.</li> <li>Caution! After removing and cleaning shelving/bracket assemblies YOU MUST return them to THE SAME EXACT slots they were in prior to their removal.</li> <li>Reconnect connectors into LED plugs after shelving/bracket assemblies are in place.</li> </ul>
Weekly	<u>Side Panels All Around (and Upper Fascia)</u> : Clean with mild soap and water solution and a non-abrasive soft cloth.
Weekly	<u>Acrylic Air Deflectors</u> : Clean with warm water, mild soap solution and soft cloth; acrylic cleaning solutions are also available. Caution! Never use ammonia-based cleaners on acrylic. Incorrect cleaning agents or abrasive cleaning cloths cause surface to 'cloud' over time.
Weekly	<u>Condenser Coil</u> : Vacuum or brush grille condenser coil at case front. Use metal or fiber brush to remove dust and dirt that can collect on condenser coils. Be careful not to damage the fins on the coil. See <b>REFRIGERATION FUNDAMENTALS: CONDENSATE PACKAGE ACCESS</b> section in this manual for instructions on side panel removal.
Monthly	<u>Under Case Cleaning</u> : Remove front (or rear) panels. Vacuum under case to remove all dust and dirt. Replace front (or rear) panels when complete.

**GENERAL CLEANING (TO BE PERFORMED BY TRAINED SERVICE PROVIDERS ONLY)**

AREA TO CLEAN	FREQUENCY	INSTRUCTIONS
Case Interior	Monthly	<u>Evaporator Fan Shroud Area (Under Decking)</u> : <i>Caution! Due to rotating fans in area, turn off case and disconnect plug from wall outlet before beginning fan shroud (and surrounding tub area) cleaning!</i> 1) Turn off power. 2) Remove deck from case. 3) Clean fan shroud area (and surrounding tub area) with moist cloth.
	Quarterly	<u>Tub &amp; Drain</u> : <i>Caution! Due to rotating fans in area, turn off case and disconnect plug from wall outlet before beginning tub &amp; drain cleaning!</i> Vacuum tub under decks. Clean with soap and water solution. Wipe dry with clean cloth. Keep drain free of debris to prevent clogging.

# TROUBLESHOOTING (TO BE PERFORMED BY STORE PERSONNEL UNLESS STATED OTHERWISE)

CONDITION	TROUBLESHOOTING
<b>Water Is On The Floor</b>	<p><u>Floor drain units</u>: Check that drain (at underside of case) is properly routed to floor drain.</p> <p>Call service provider.</p>
<b>Fans Emit Excessive Noise</b>	<p>Call service provider.</p>
<b>No Case Lights Are Working</b>	<p>Check that light switch is in the <i>on</i> position.</p> <p>Check that ALL of the light cords and plugs are properly connected. See <b><i>MAINTENANCE FUNDAMENTALS - SHELF &amp; BRACKET ASSEMBLY REMOVAL / LIGHT FIXTURES</i></b> section in this manual for specifics.</p> <p><b><u>Authorized Service Contractors Only</u></b>: Check circuit breaker box for tripped circuit.</p> <p>If case lights still do not come on, call service provider.</p>
<b>One (or Several) Case Lights are Not Working</b>	<p>Check that ALL of the light cords and plugs are properly connected. This includes the following items:</p> <ul style="list-style-type: none"> <li>• Oval form of plug must connect to oval form of LED light.</li> <li>• The power end of cord is to connect at the “red dot” marker at the end of the LED lamp.</li> <li>• See <b><i>MAINTENANCE FUNDAMENTALS - SHELF &amp; BRACKET ASSEMBLY REMOVAL / LIGHT FIXTURES</i></b> section in this manual for more specifics including illustrations.</li> </ul> <p>If case light still do not come on, call service provider.</p>
<b>Case is Not Holding Proper Temperature</b>	<p>If a large amount of warm product was added to the case, it will take time for the temperature to adjust. Product must be pre-chilled before placing in case.</p> <p>Check that the case is not in the sun or near a heat or air-conditioning vent. See <b><i>OVERVIEW / TYPE / COMPLIANCE / WARNINGS / PRECAUTIONS / WIRING DIAGRAM</i></b> section in this manual for specifics.</p> <p>If case is located near front doors, temperature fluctuation can hinder unit’s ability to maintain temperature. See <b><i>OVERVIEW / TYPE / COMPLIANCE / WARNINGS / PRECAUTIONS / WIRING DIAGRAM</i></b> section in this manual for specifics.</p> <p>Check air return grilles (area at front of decking) for obstructions. DO NOT set product on air grilles as this will prevent proper airflow!</p> <p>If case still is not holding proper temperature, call service provider.</p>

# TROUBLESHOOTING (TO BE PERFORMED BY TRAINED SERVICE PROVIDERS ONLY)

CONDITION	TROUBLESHOOTING
<b>Water Is On The Floor</b>	Check that the drain trap is free of debris.
	Check that the drain hose is correctly positioned over floor drain.
	Remote units condensate pump: Check that unit is operating properly.
	Check store conditions. <ul style="list-style-type: none"> <li>• To prevent condensation in NSF/ANSI Type I environments, maximum conditions are to be 55% relative humidity / 75° Fahrenheit.</li> <li>• For NSF/ANSI Type II environments, maximum conditions are to be 55% relative humidity / 80° Fahrenheit.</li> <li>• If you are unsure if your unit is classified as NSF/ANSI Type I or Type II, see tag next to serial label on your case.</li> </ul>
<b>Fans Emit Excessive Noise</b>	Check that the case is aligned, level and plumb.
	Check evaporator fan for cleanliness.
	Unplug/power off fan motors. Check motor shaft for bearing wear.
	Check that fan motors are securely mounted in brackets.
	Verify that fan blades are securely mounted to fan motor.
	Check that nothing is preventing blade rotation.
	Check that the fan shroud is properly secured.
<b>Fans Are Not Working</b>	Check that the MAIN power switch is on.
	Check that fans are plugged in at the fan shroud.
	Check for foreign material obstructing fan performance.
	Check that fan blades freely rotate within fan shrouds
	Check that power is going to fans
	Check that fan wiring is connected on terminal blocks.
<b>Digital Control Display Is Blank.</b>	Check that the MAIN power switch is on.
	Check the circuit breaker box for tripped circuits.
<b>System Not Operating</b>	Check that the utility power is on.
	Check that the MAIN power switch is on.
	Check the circuit breaker box for tripped circuits.

**TROUBLESHOOTING (TO BE PERFORMED BY TRAINED SERVICE PROVIDERS ONLY), CONTINUED**

CONDITION	TROUBLESHOOTING
<b>No Case Lights Are Working</b>	Follow previous page's <b>System Not Operating</b> instructions.
	Check voltage at LED driver. If voltage is entering but not exiting, LED driver may be faulty.
	Check connection at front of case (from circuit breaker) for voltage.
	Check connection at case rear (from field wiring box) for voltage.
	If no case light STILL do not come on, call <b>SCC Technical Service</b> phone number (listed on last page of this operating manual).
<b>One (or Several) Case Lights are Not Working</b>	Follow previous page's <b>System Not Operating</b> instructions.
	If case light still do not come on, call <b>SCC Technical Service</b> phone number (listed on last page of this operating manual).
<b>Control Display Is Flashing</b>	See your case's serial label for your model's specified settings. See <b>SERIAL LABEL LOCATION &amp; INFORMATION LISTED / TECH INFO &amp; SERVICE</b> for label location, etc.
<b>Case Is Not Holding Temperature</b>	If a large amount of warm product was added to the case, it will take time for the temperature to adjust. Unit needs product to be pre-chilled.
	Temperature changes during defrost mode but will return to normal. Fourth LED (on temperature controller) will indicate defrost cycle in progress.
	Check that case is not in sun or near a heat or air-conditioning vent.
	If case is located near front doors, temperature fluctuation can hinder unit's ability to maintain temperature.
	Check air grilles for obstructions.

## TROUBLESHOOTING (BY TRAINED SERVICE PROVIDERS ONLY) - CONDENSING SYSTEM

CONDITION	TROUBLESHOOTING
<b>Head Pressure Too High</b>	Check that the Condensing Coil is not dirty or covered.
	Check that Condensing Fans are working.
	Check that refrigerant is not overcharged.
	Check to verify that a non-condensable is not in the system.
	Check that Liquid Line Drier is not plugged.
	Check that there are no close-offs around Condensing Coil.
	Check Set Point Temp.; it may be adjusted too high.
	Check System Operating Temperatures.
	Check that Store Ambient Temperature isn't above maximum allowed. See <i>Overview and Warnings</i> Section.
<b>Head Pressure Too Low</b>	Check that Refrigerant Charge isn't too low.
	Check that Suction Pressure isn't too low.
	Check to verify that Compressor Valves aren't bad.

## TROUBLESHOOTING (BY TRAINED SERVICE PROVIDERS ONLY) - EVAPORATOR SYSTEM

CONDITION	TROUBLESHOOTING
<b>Low Suction Pressure</b>	Check that the Refrigerant doesn't have a low charge.
	Check that Expansion Valve (TXV Valve) isn't restricted.
	Check that Liquid Line or Filter isn't restricted.
	Check that Evaporator Motors are working.
	Check that High Superheat doesn't need adjusting.
	Check that the Thermostatic Element charge isn't depleted.
	Check that there is air no seepage of air around Condensing Coil.
	Check that the Coil is not iced up.
<b>High Suction Pressure</b>	Check that Refrigerant Charge isn't too high.
	Check that Compressor Valves aren't bad.
	Check that the Cooling Load isn't high.
	Check that Superheat Adjustment isn't low.
	Check TXV Bulb Installation <ul style="list-style-type: none"> <li>a. Poor thermal contact.</li> <li>b. Warm location.</li> </ul>
	Check Compressor: Low capacity means it is undersized for its application.

**PREVENTIVE MAINTENANCE (TO BE PERFORMED BY TRAINED SERVICE PROVIDERS ONLY)**

**WARNING! TURN OFF CASE BEFORE PERFORMING PREVENTIVE MAINTENANCE!**

PREVENTIVE MAINTENANCE	FREQ.	INSTRUCTIONS
Case Exterior	Quarterly	<p><b><u>Condensing Coil:</u></b></p> <ul style="list-style-type: none"> <li>Remove side panel (by lifting up and off).</li> <li>Use air pressure or industrial strength vacuum; clean dust and dirt that may collect on the Condenser Coil. Take care to NOT allow dust to become airborne. Use wet rags to cover area where dust will flow when air pressure is applied.</li> <li><b>Caution! Coil fins are sharp. Handle with care!</b></li> <li>Replace front panel to case.</li> </ul>
	Quarterly	<p><b><u>Refrigeration Package/Compressor Area:</u></b> <i>Caution! Be certain to disconnect power from case before cleaning refrigeration package!</i></p> <ul style="list-style-type: none"> <li><i>Warning! Evaporator Pan Is HOT! Disconnect power from case and allow to cool before cleaning evaporator pan!</i></li> <li>Slide/Roll compressor package out from under case.</li> <li>See <b>REFRIGERATION FUNDAMENTALS</b> section for in-depth instructions on accessing the evaporator pan.</li> <li>Use a scrub-brush and a de-scaling solution such as CLR® (to prevent corrosion, lime and rust). Follow instructions as to proper dilution, safety precautions and scrubbing method.</li> <li>After thoroughly cleaning pan with scrub-brush and solution, rinse thoroughly with clean water (in spray bottle) and wipe dry with sponge or paper towel.</li> <li>Use moist cloth to wipe off dust &amp; debris that collects on various parts (fans, sight glass, overflow pan, etc.).</li> <li>Slide refrigeration assembly back under case.</li> <li>Replace front panel and lower grille via hooks (no screws required).</li> </ul>
	Quarterly	<p><b><u>Under Case Cleaning:</u></b> Once refrigeration package is clear of unit, vacuum under case to remove all dust and dirt that may collect under case.</p>
Case Interior	Quarterly	<p><b><u>Tub, Coil, Drain, Evaporator Fan Blades, Motors, Brackets:</u></b> <i>Disconnect power from the case before cleaning the Tub, Coil, Fan, Motor and Drain Area!</i></p> <ul style="list-style-type: none"> <li>Remove Decking, Sub-Deck and Fan Shroud.</li> <li>Use vacuum to clean Evaporator Coils.</li> <li>Clean Tub, Coil and Drain with warm water, clean cloth, brush and mild soap solution.</li> <li>Remove any debris that may clog drain.</li> <li>Clean Fan Blades, Motors and Brackets by wiping down with moist cloth.</li> </ul>
	Quarterly	<p><b><u>Honeycomb:</u></b> Check honeycomb air diffuser to determine whether it is dirty. If dirty, remove from case. See <b>MAINTENANCE FUNDAMENTALS - HONEYCOMB AIR DIFFUSERS (SERVICE TECHNICIANS ONLY)</b> section of this manual (next page) for cleaning specifics.</p>

***Preventive maintenance should be performed every 30 days unless conditions warrant a more frequent replacement cycle.***

### **1. Honeycomb Air Diffuser Removal**

A. Wedge non-metallic device of suitable strength (such as a ballpoint pen) between honeycomb and end panel.

Caution! Use care not to dislodge the heating wire (that prevents condensation on the lamp assembly).

B. Apply pressure to collapse the honeycomb to allow it to be pulled out of honeycomb retainer.

C. Pry downward and away from honeycomb retainer.

*Clean honeycomb with warm water and soap solution. Submerge if necessary. Use brush to*

*dislodge stubborn or sticky residue. Dry by using vacuum cleaner's 'blow mode'.*

### **2. Honeycomb Air Diffuser Installation**

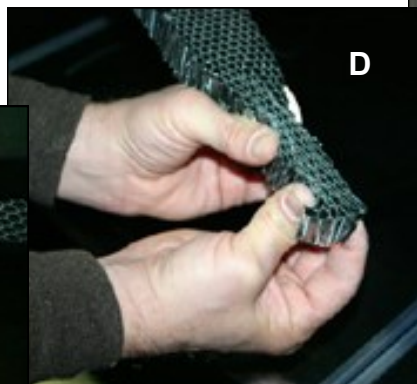
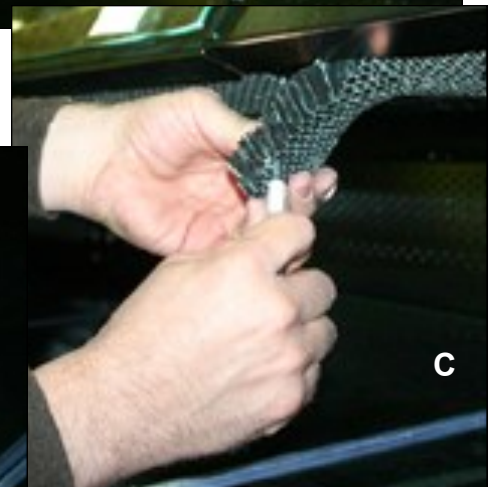
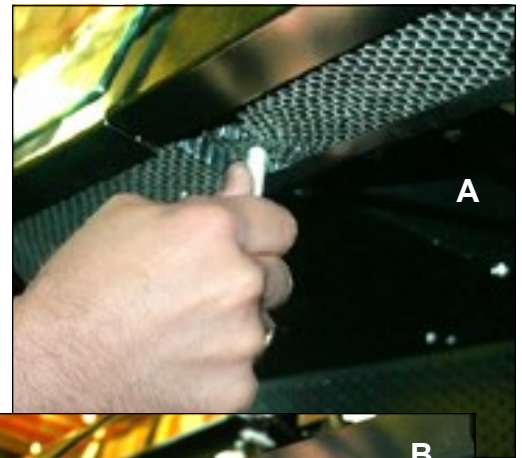
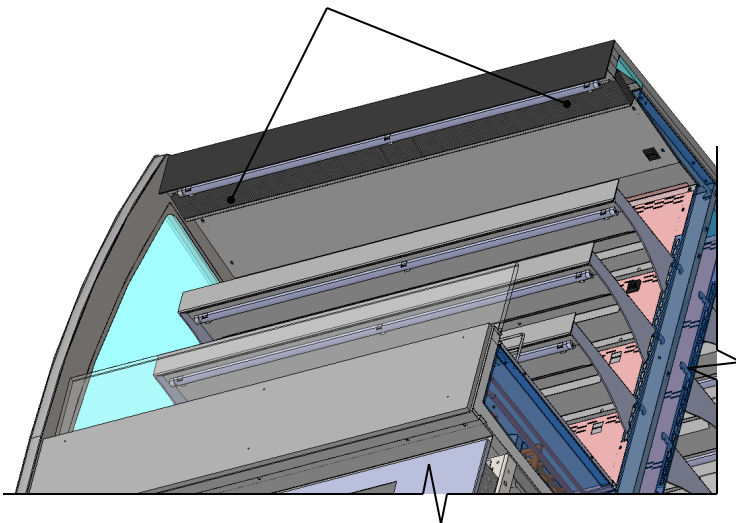
D. Squeeze honeycomb into the honeycomb retainer.

E. Carefully slide honeycomb into place.

F. Adjust honeycomb so that it fits flat against retainer. It must not be wavy or out of position.

*Note: For honeycomb air diffusers in other locations, these same general instructions apply.*

Honeycomb Air Diffuser  
At Each Side of Merchandiser




**Serial Label Location & Information Listed / Technical Information & Service**


- Serial labels are affixed at a wide range of places (on the header, near thermostat, at case rear, behind panels/toe-kicks, on electrical boxes, etc.).
- Serial labels contain electrical, temperature and refrigeration information, as well as regulatory standards to which the case conforms.
- Sample serial label is shown. A variety of models is displayed on serial label for illustration purposes only. Your case's serial label will reflect only one model.
- For additional technical information and service, see the *TECHNICAL SERVICE* page in this manual for instructions on contacting Structural Concepts' Technical Service Department.

**Structural Concepts®**  
888 E. Porter Rd - Muskegon, MI 49441

**Fusion**  
**Blend**  
**Addenda**  
**Harmony**  
**Grocerant**  
**Impulse**  
**Oasis**  
**Reveal**

MODEL NRS3648RXV-SAMPLE  
SERIAL NO. 12345X30DZ098765

  
 Intertek

  
 Intertek

**3048256**  
Conforms to UL Std. 471  
Conforms to NSF/ANSI Stds. 2 & 7  
CERTIFIED TO CAN/CSA  
STD C22.2 NO 120

Super Heat Temp  
Defrost


6-8 °F  
6 defrosts per day, 45 °F

ELECTRICAL RATING  
REFRIGERANT  
DESIGN PRESSURE  
MINIMUM CIRCUIT AMPACITY  
MAXIMUM OVERCURRENT

120/1/60 16 A  
R513A AMOUNT 50 OZ  
HIGH 186 LOW 88  
20A  
20A

FOR PARTS AND SERVICE  
CALL 1-800-433-9490

SCAN FOR PRODUCT LITERATURE

  
 Sample QR Code

--- Sample Serial Label For Refrigerated Cases ---



**Determine Which Programmable Controller Is On Your Case (Controllers That Are Commonly Used By Structural Concepts Are Shown Below). Your Particular Programmable Controller May Differ.**



**Carel® PJEZ Platform**



**Carel® ir33 Platform**



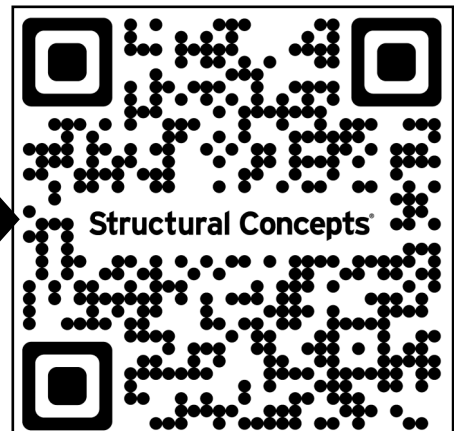
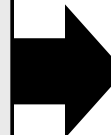
**Carel® iJF Platform**



**Dixell® XM670K-XM679K Platform**

**To Access Information About The Programmable Controller That Is Used On Your Case, Follow These Instructions:**

- > If Viewing This Document on Smart Phone, Tablet or Computer, Select/Click On The QR Code at Right.
- > If Viewing This Document In Print (Hard Copy), Scan The QR Code at Right With Your Smart Phone or Tablet.



## STRUCTURAL CONCEPTS TECHNICAL SERVICE CONTACT INFORMATION & LIMITED WARRANTY

### TECH SERVICE/WARRANTY CONTACT INFO:

1 (800) 433-9490 / EXTENSION 1

### DAYS/HOURS AVAILABLE:

MONDAY - FRIDAY (CLOSED HOLIDAYS)  
8:00 AM to 8:00 PM EST

### YOU MUST HAVE THE FOLLOWING INFO AVAILABLE BEFORE CONTACTING STRUCTURAL CONCEPTS:

SERIAL NO. / MODEL NO. / STORE NO. / STORE  
ADDRESS / DETAILS (PHOTOS, LEAK LOCATIONS,  
DAMAGE, STORE'S AMBIENT CONDITIONS, ETC.)

### To Access The Limited Warranty To Your Case, Follow These Instructions:

- > If Viewing This Document on Smart Phone, Tablet or Computer, Select/Click On The QR Code at Right.
- > If Viewing This Document In Print (Hard Copy), Scan The QR Code at Right With Your Smart Phone or Tablet.

