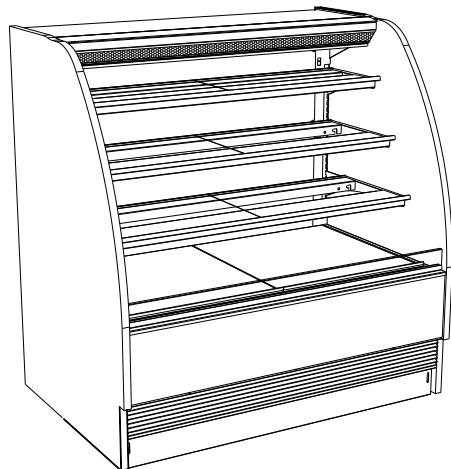


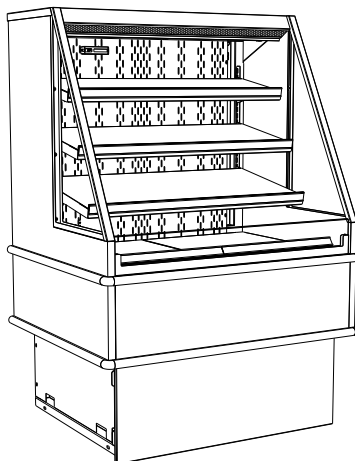
HARMONY USER MANUAL

SCC P/N
54171

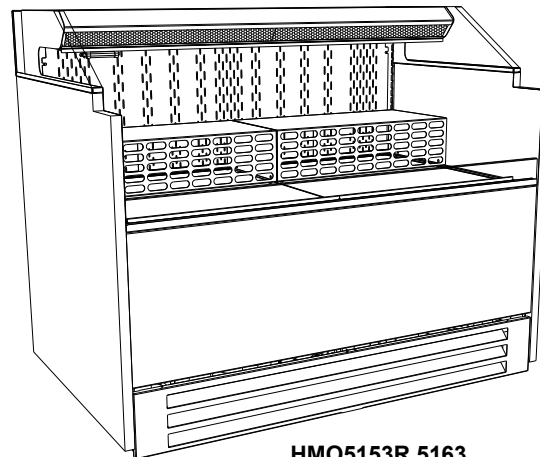
33" DEEP SELF-SERVICE REFRIGERATED BAKERY MERCHANDISER



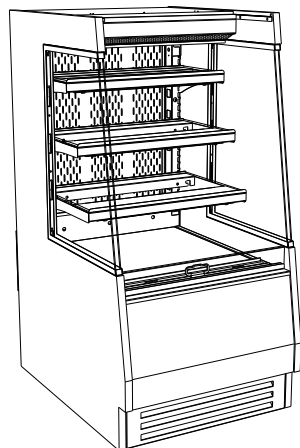
HMO5153R



HMO3953R.5749



HMO5153R.5163
(Shown With Risers)



HMO2653R.5194

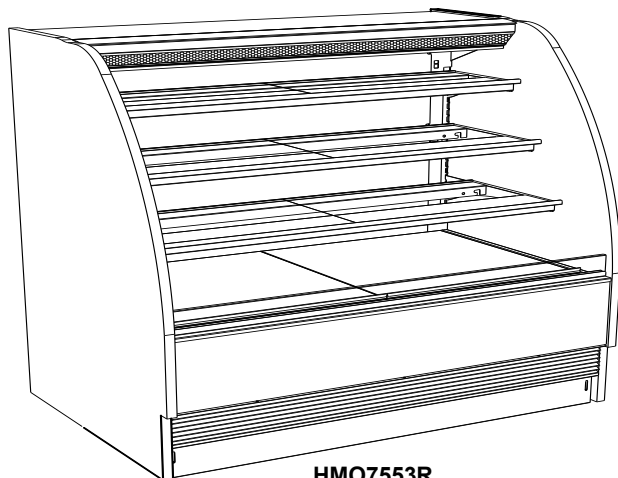


HMO2653R

DISCONTINUED



HMO9653R.5914E
(Shown With Optional Recipe
Card Holders)



HMO7553R

- >>> Model HMO2653R (26 7/8"L* x 34 3/4"D x 52 3/4"H**)
- >>> Model HMO2653R.5194 (26 7/8"L* x 34 3/4"D x 52 3/4"H**)
- >>> Model HMO3953R (38 7/8"L* x 32 1/8"D x 52 3/4"H**)
- >>> Model HMO3953R.5749 (38 7/8"L* x 32 1/8"D x 58 3/8"H**)
- >>> Model HMO5153R (50 7/8"L* x 32 1/8"D x 52 3/4"H**)
- >>> Model HMO5153R.5163 (50 7/8"L* x 32 1/8"D x 41 3/4"H**)
- >>> Model HMO6353R (62 11/16"L* x 32 1/8"D x 52 5/8"H**)
- >>> Model HMO7553R (75 1/4"L* x 32 1/8"D x 52 5/8"H**)
- >>> Model HMO9653R.5914E (99 1/2"L* x 34 1/8"D x 52 5/8"H**)

*Includes 1" End Panels

**Includes Levelers at 1 1/4" Below Base Frame

Structural Concepts®

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1. Shipment Condition

- Before and during unloading, check all equipment for damage.

2. Damage Discovered During Delivery

- 3rd Party Carrier: Describe damage on freight bill and obtain signature of driver. Carrier will supply necessary claim forms. If these steps are not taken, carrier may refuse your claim.
- Prepaid and Add: Contact carrier (and follow same procedure as with 3rd party carrier). Also contact Structural Concepts at 1-800-433-9489.

3. Risk of Damage When Case is NOT Uncrated at Installation Site

- Uncrating equipment at a facility OTHER THAN the installation site may result in SEVERE DAMAGE to unit when transporting to final destination.
- Structural Concepts strongly recommends that equipment ONLY be uncrated at installation site.

4. Damage Discovered After Uncrating

- 3rd Party Carrier: Contact carrier within 10 days of delivery for their procedures; retain all packaging. If these steps are not taken, carrier may refuse your claim.
- Prepaid and Add: Contact carrier (and follow same procedure as with 3rd party carrier). Also contact Structural Concepts at 1-800-433-9489 within 10 days of delivery.

5. Shortages

- If a shortage exists (and it is the responsibility of Structural Concepts) call 1-800-433-9489. Structural Concepts will acknowledge shortages within 10 days from receipt of equipment.
- If a shortage involves the carrier, notify carrier immediately and request an inspection.

OVERVIEW

- These Structural Concepts cases are designed to merchandise packaged products at 41 °F (5 °C) or less product temperatures (unless custom cases with wire rack shelving).
- Product must be pre-chilled to 41 °F (5 °C) or less before being placed in merchandiser.
- 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 compliance guideline.

WARNINGS

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

PRECAUTIONS and WIRING DIAGRAMS

- See next page for **PRECAUTIONS** 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
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
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
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.



WARNING
Condensate pan and overflow condensate pans are **HOT!**
Disconnect and allow to cool before cleaning or removing from case.

PRECAUTIONS

- Following are important precautions to prevent damage to unit or merchandise. Read carefully!
- See previous page for specifics on **OVERVIEW**, **CONDITION TYPE**, **COMPLIANCE** and **WARNINGS**.

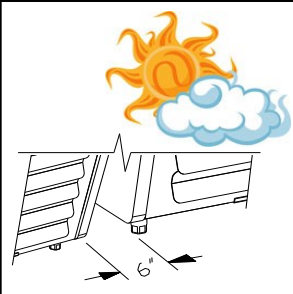
WIRING DIAGRAM

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



CAUTION! GFCI BREAKER 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

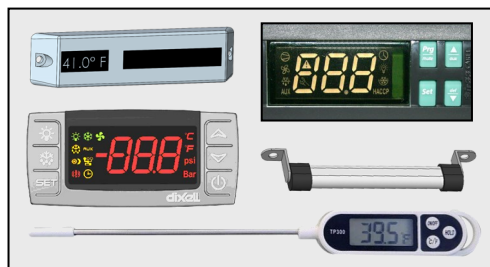


CAUTION! ADVERSE CONDITIONS / SPACING ISSUES

- 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/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.

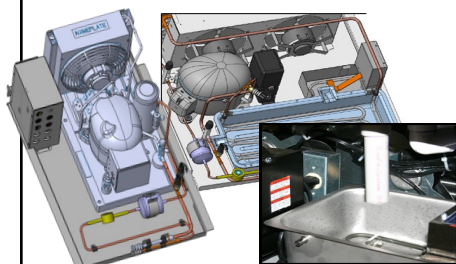


CAUTION! POWER CORD AND PLUG MAINTENANCE
Risk of electric shock. If cord or plug becomes damaged, replace only with cord and plug of same type.



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!

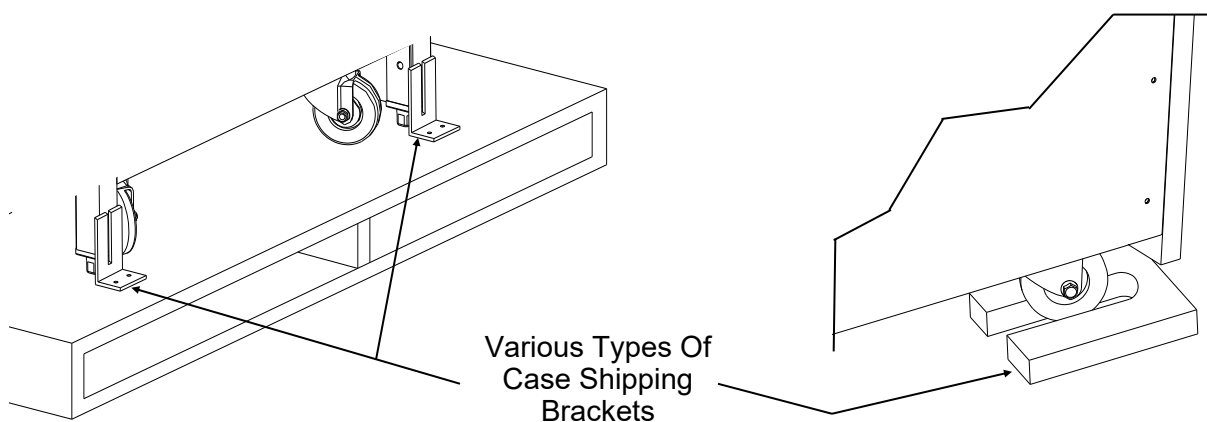
Water on flooring can cause extensive damage!

- 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.

CASE REMOVAL FROM SKID (LEVELERS OR CASTERS)

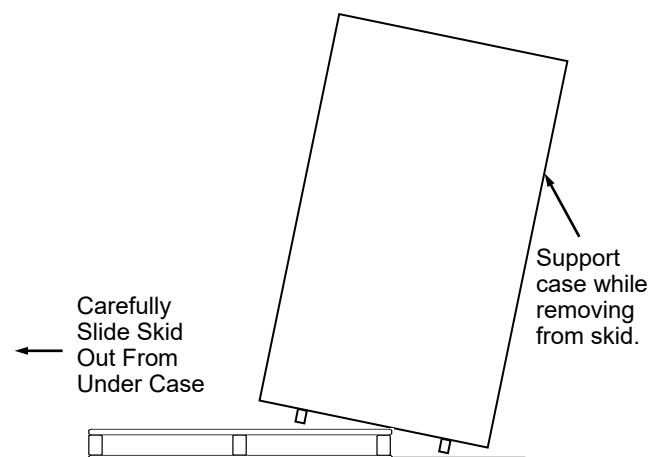
1. Removing Case Shipping Brackets That Are Attached To Skid

- Remove screws holding Case Shipping Brackets to skid.
- Remove Case Shipping Brackets from Skid.
- See illustrations below. Note: Shipping Brackets will vary in size, shape, material and location depending upon case type and model.



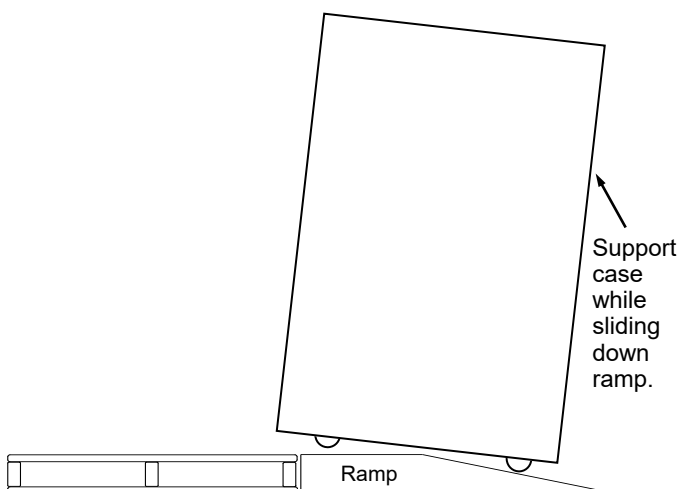
2. Remove Case (With Levelers) From Skid

- To prevent damage, support case while sliding it toward edge of skid.
- When case is at edge of skid, carefully lower to floor (so two levelers rest on floor).
- Carefully slide skid out from under case.
- After removal of case from skid, place into position.
- Note: Illustration below reflects general outline of sample case and does not reflect any particular model or options).



3. Remove Case (With Casters) From Skid

- A. Place ramp up against skid (to allow case to smoothly slide off from skid).
- B. Maintain support of case at all times or center of gravity may cause case to fall.
- C. Unlock Casters. Slide unit to rear of skid. Slide down ramp and off from skid.
- Note: Illustrations reflect general outline of sample case and may not reflect your particular model or options).



INSTALLATION - CAULKING AND BOLTING UNITS TOGETHER

Installation

Note: Units shown may not depict an exact representation of your particular unit being installed.

1. Position and Level Units

- Position Units. Align multiple units carefully in areas A, B, and C.
- See illustration at right.

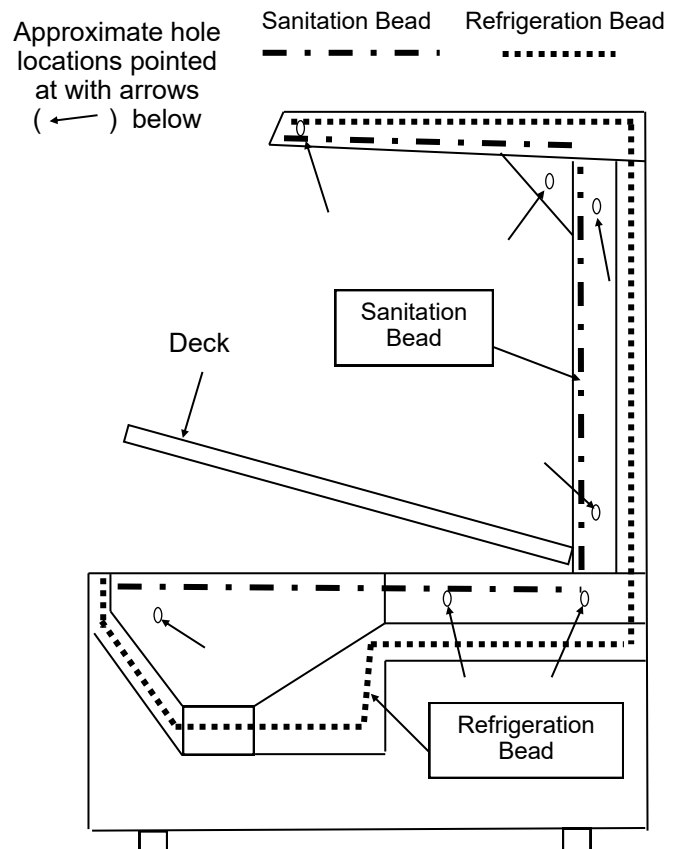
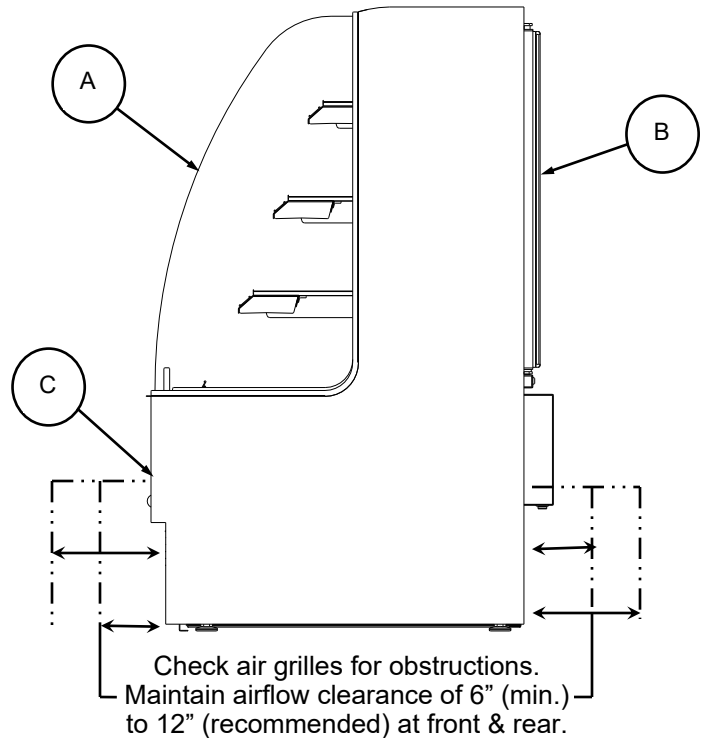
2. Ventilation and Clearance

- **Self-Contained** refrigerated cases must maintain airflow clearance of 6" (minimum) to 12" (recommended) at front and rear.
- Restriction of air can void warranty.
- Illustration at top-right may not reflect every feature or option of your particular case.

3. Caulking and Bolting Units Together

Follow these steps to assure a secure, level lineup.

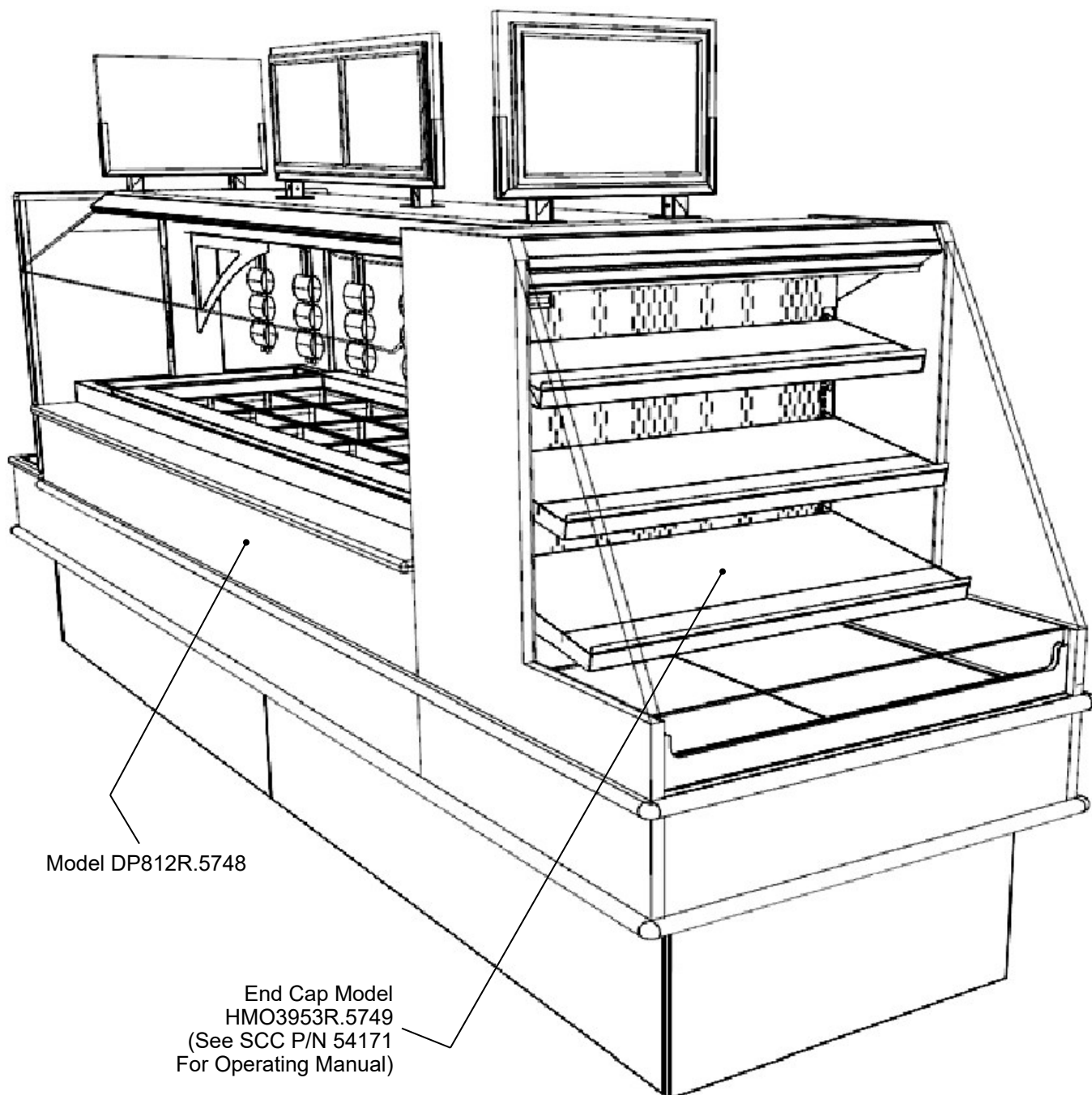
- Begin all lineups leveling from highest point of floor.
- After the 'first' case is level, apply industrial grade butyl caulk on non-visible areas (at case end). Use industrial grade silicone sealant on visible areas (at case end).
- Form Two (2) Caulk/Sealant Lines:** (Sanitation and Refrigeration). See illustration at below-right for outline of caulk/sealant lines.
- Line up 'second' case bolt-hole to bolt-hole to 'first' case.
- Using SCC-supplied bolts (found in installation packet), insert bolts in bolt hole locations (shown at right). You may need to remove decking to access lower bolt holes.
- Caution!** Front of cases **MUST** be flush with each other! Also, after leveling, all cases to be at same height.
- Using SCC-supplied nuts & bolts, **lightly tighten** each of the 5 to 8 bolts in a cross-wise pattern. Work your way around the pattern, tightening more firmly at each pass. **Do not** firmly tighten one bolt and then start on the next!
- After the cases are bolted together, level the 'second' case. Repeat this process for each case to be adjoined.
- After all lined-up cases are level, seal all seams with industrial grade silicone sealant.



4. Line-Up With Model DP812R.5748

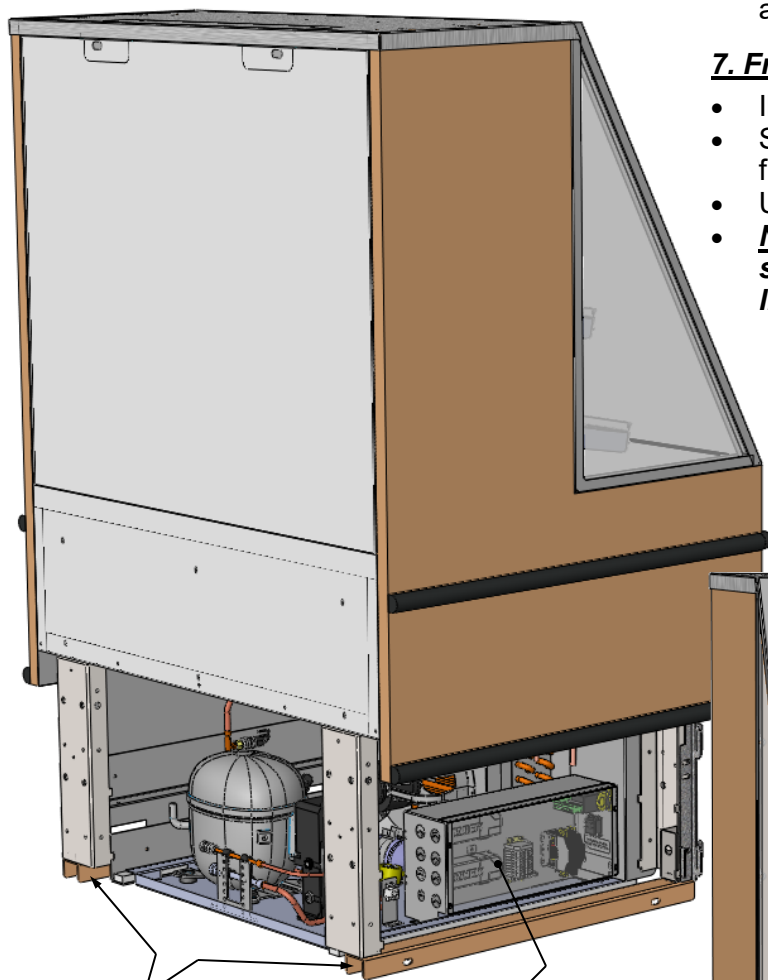
- Illustration below shows adjoinment of model HMO3953R.5749 with separate model DP812R.5748.
- Model DP812R.5748 has its own operating manual, SCC P/N 20-32217.

- *Note: Depending upon features and options chosen, illustration below may not reflect every aspect of your particular models.*



5. Model HMO3953R.5749 General Layout

- Illustration below shows the general layout of model HMO3953R.5749.
- Case wiring source is from its adjoining case (SCC P/N DP812R.5748).



Frame Support Rails

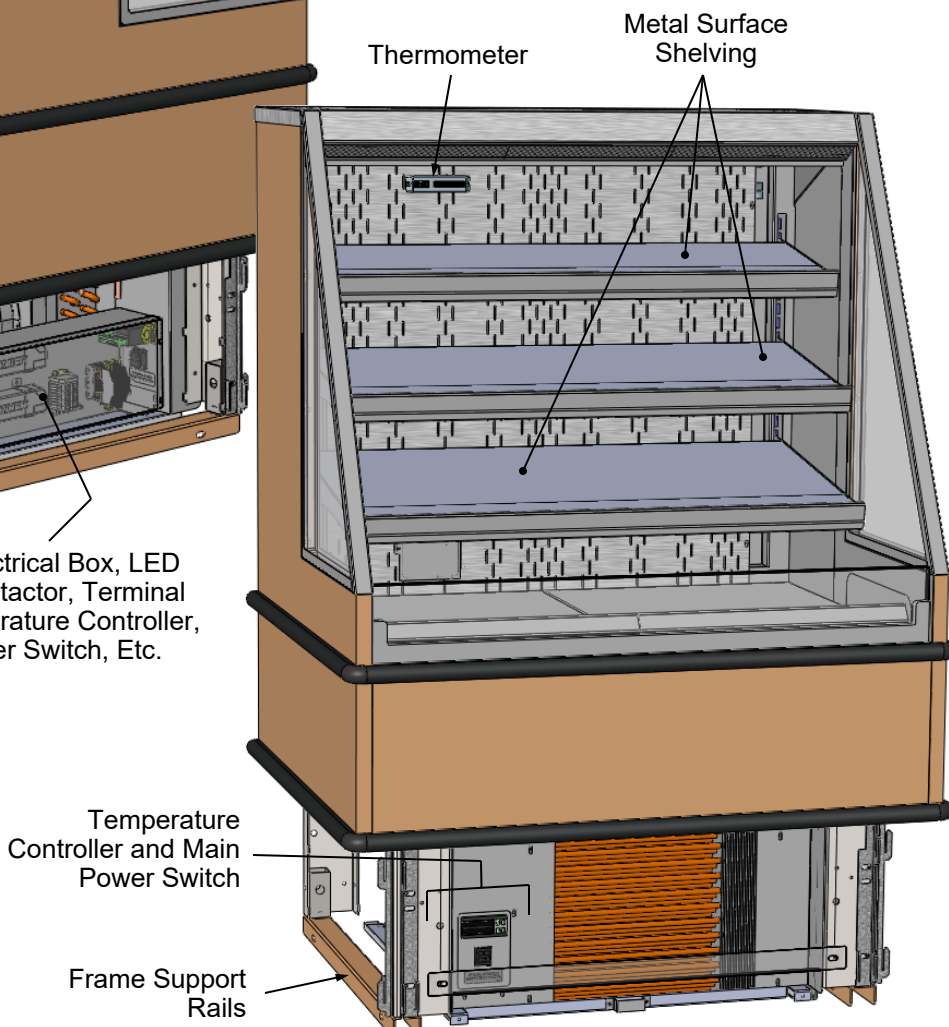
View of Electrical Box, LED Drivers, Contactor, Terminal Block, Temperature Controller, Main Power Switch, Etc.

6. Position & Align Case Alongside Other Cases

- Before adjusting levelers (or shimming frame support rails), make certain that the case is in proper position and, if required, aligned with adjoining case(s).
- This may require the repositioning of the case you are installing or the already positioned case(s).

7. Frame Support Rails Must Be Shimmed

- Illustration below shows frame support rails.
- Shims will be provided with all cases that have frame support rails.
- Use shims to level case.
- **Note:** After case is in position, it must be sealed to floor to prevent entry or leakage of liquid or moisture.



Thermometer

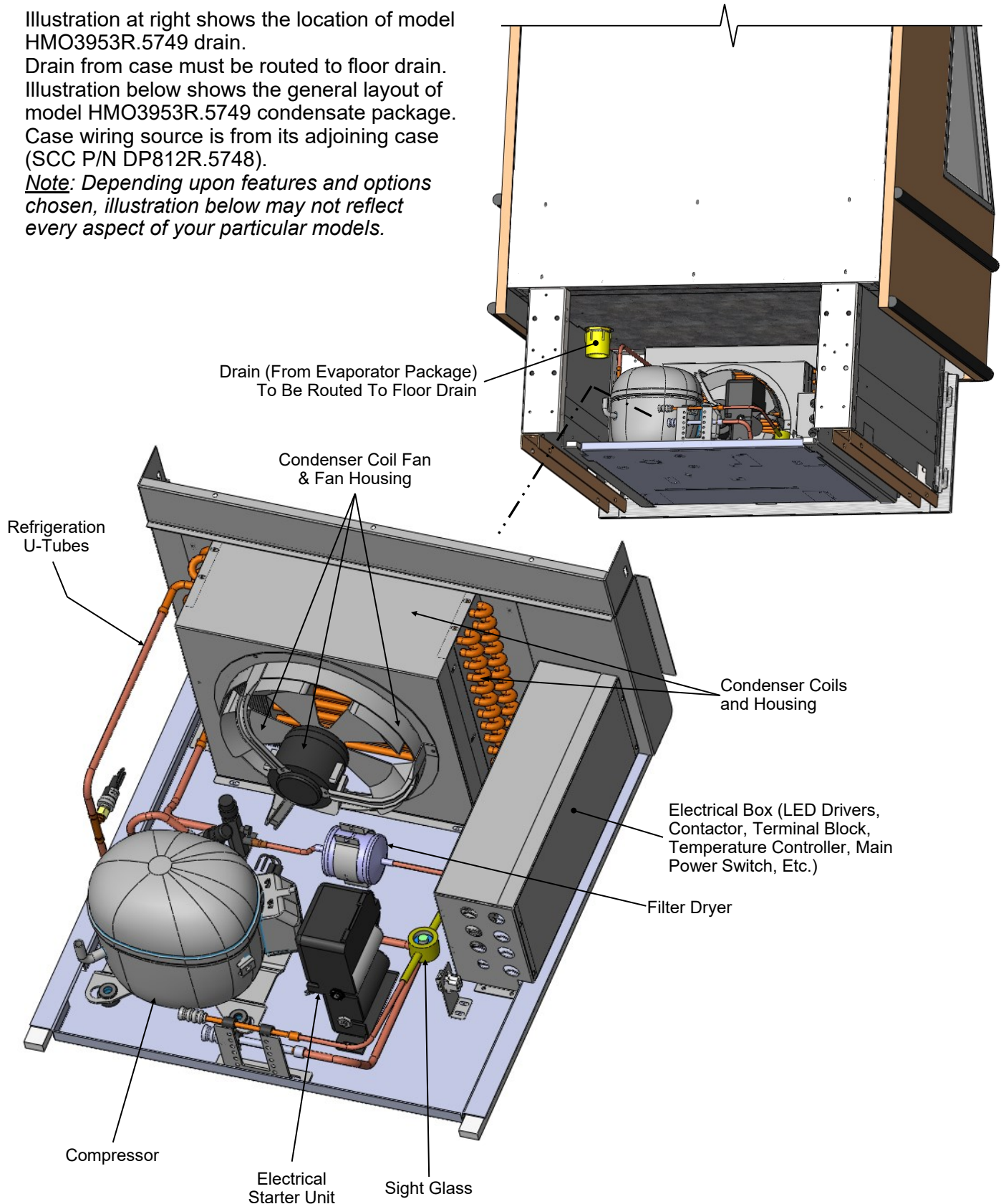
Metal Surface Shelving

Temperature Controller and Main Power Switch

Frame Support Rails

8. Model HMO3953R.5749 Drain and Condensate Package

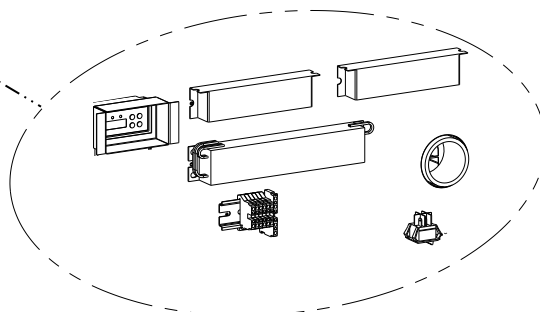
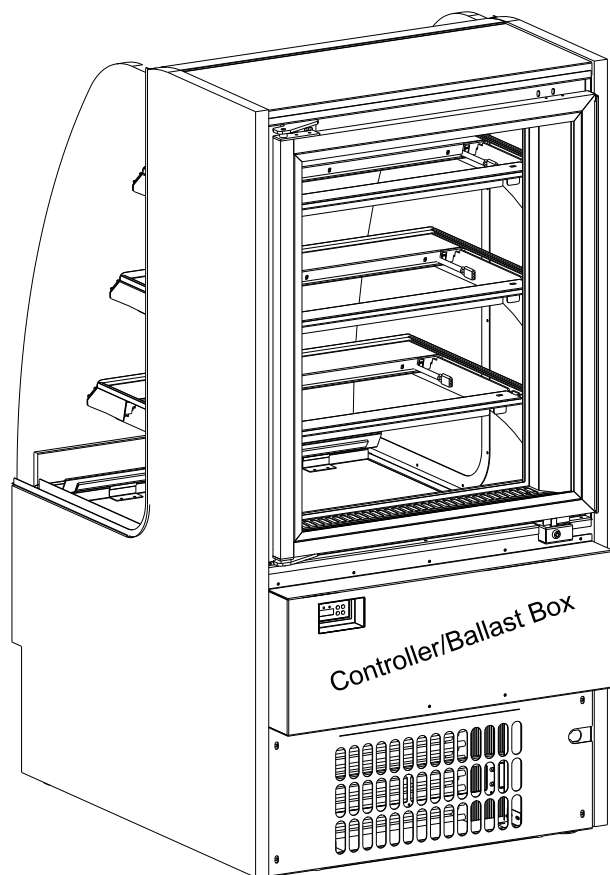
- Illustration at right shows the location of model HMO3953R.5749 drain.
- Drain from case must be routed to floor drain.
- Illustration below shows the general layout of model HMO3953R.5749 condensate package.
- Case wiring source is from its adjoining case (SCC P/N DP812R.5748).
- *Note: Depending upon features and options chosen, illustration below may not reflect every aspect of your particular models.*



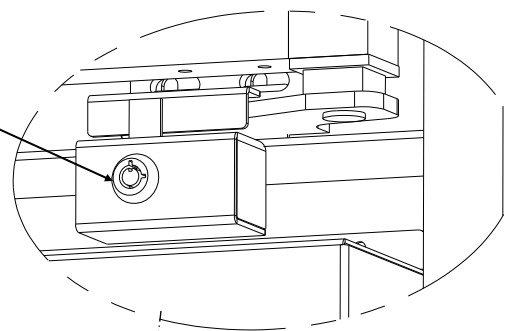
9. Connections/Controller/Lock/Main Power Switch (Self-Contained Units)

Controller/Ballast box location is at customer rear.

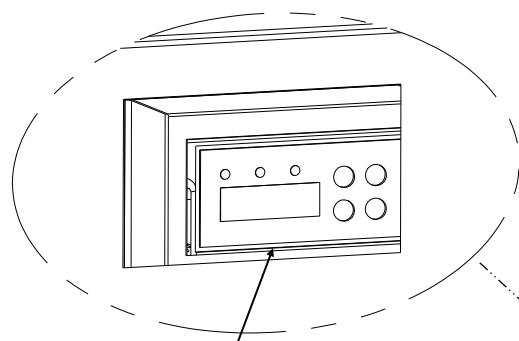
- See illustration at left.
- Below illustrations show layout of controller, ballasts, main power switch, door lock, terminal block, etc. after removal of controller/ballast box.



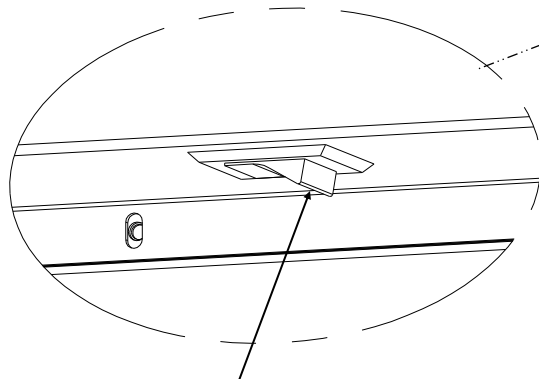
Rear Door Lock



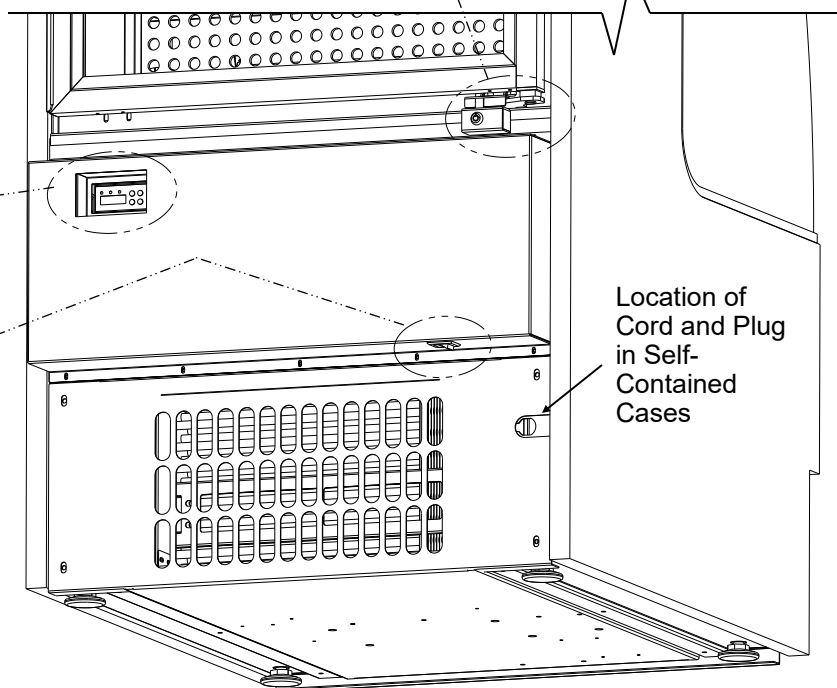
Controller

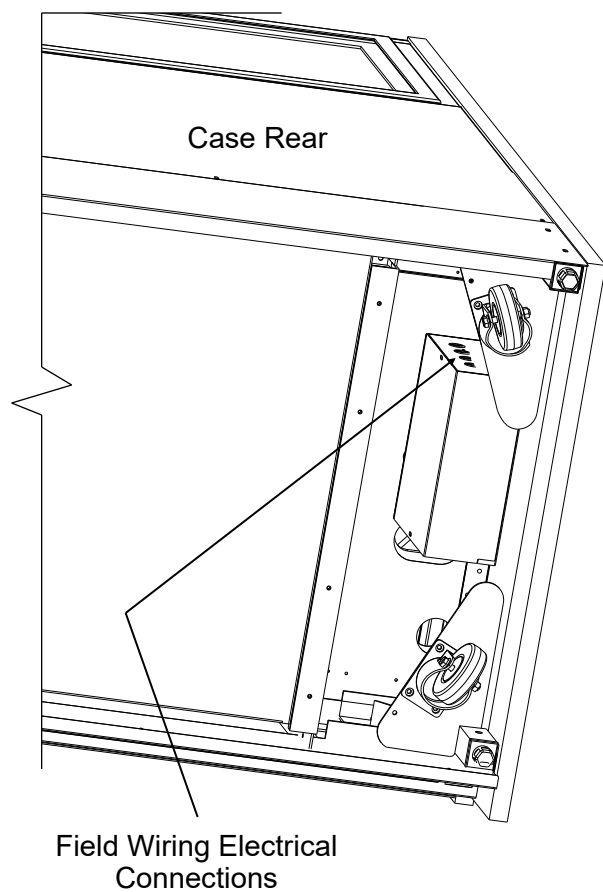


Main Power Switch



Location of Cord and Plug in Self-Contained Cases





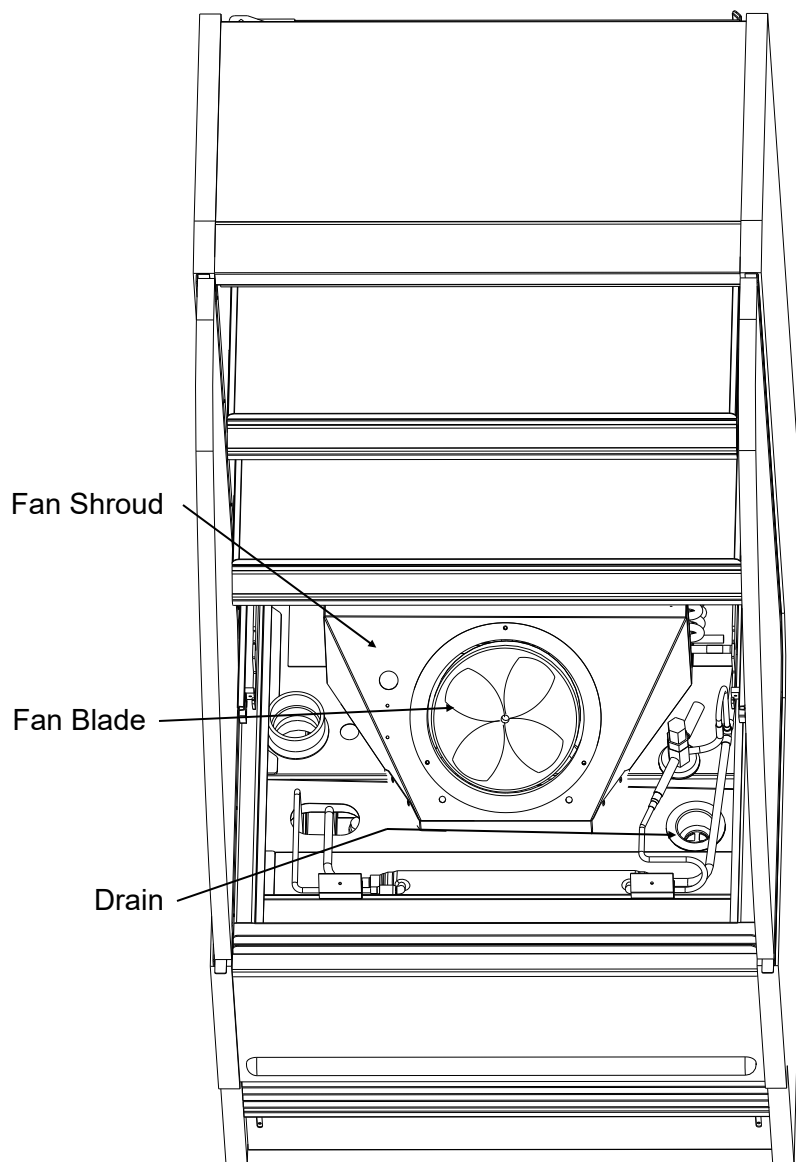
10. Electrical Connections (Certain Remote Cases)

Field wiring connection / electrical access location is at customer-left side of case.

- Single phase leads are provided.

11. Evaporator Fan Area

- Illustration below shows front of case with decking removed.
- See Preventive Maintenance section in this manual for guidelines on cleaning this area.



DRAIN, HOSE AND BRACKET PLACEMENT ILLUSTRATIONS

NOTE: BELOW ILLUSTRATIONS MAY NOT EXACTLY REFLECT EVERY PARTICULAR CASE'S FEATURES

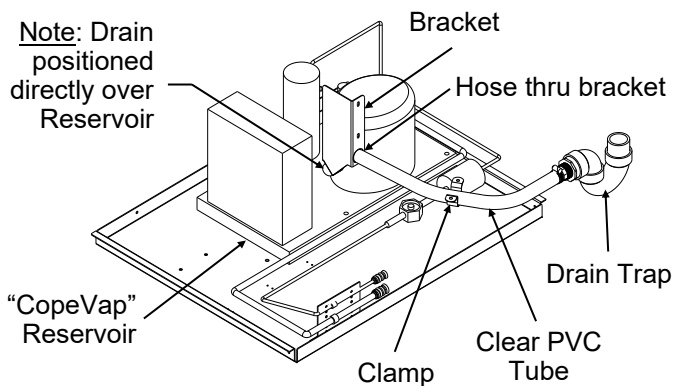
Three Evaporator Systems Are Illustrated Below:

Illustration #1: Hot Gas "CopeVap" Evaporator System. "Copevap" is built into Compressor Unit.

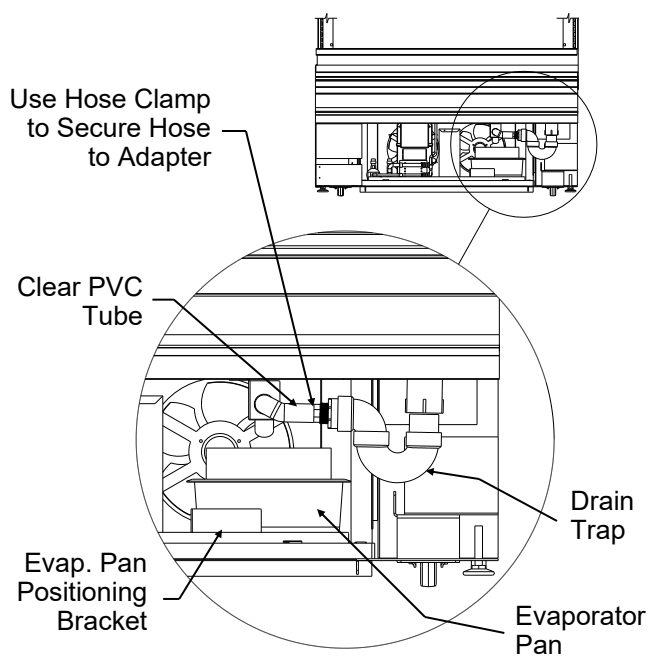
Illustration #2: Hot Gas Evaporator System.

Illustration 3A/3B : Electrical Heat Rod Evaporator System. **Note:** Separate Evaporator Pan.

Warning! Regardless of Evaporator, the Hose and Drain Trap **MUST BE** secured and positioned over Evaporator Pan to prevent water seepage / spillage. When sliding out Condenser Unit, be careful that drain is not pulled from proper position.



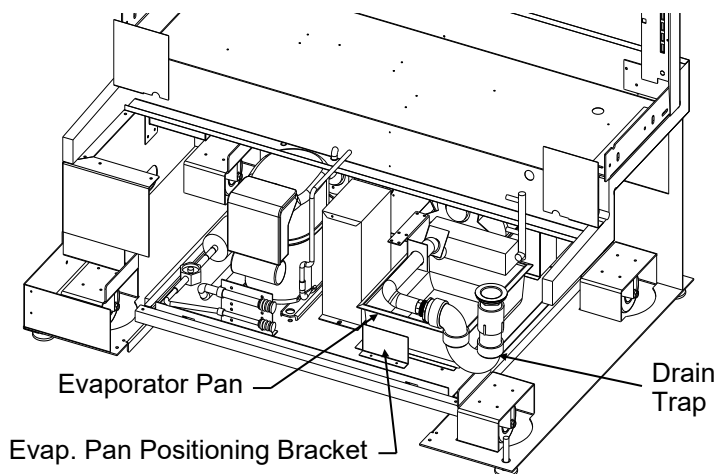
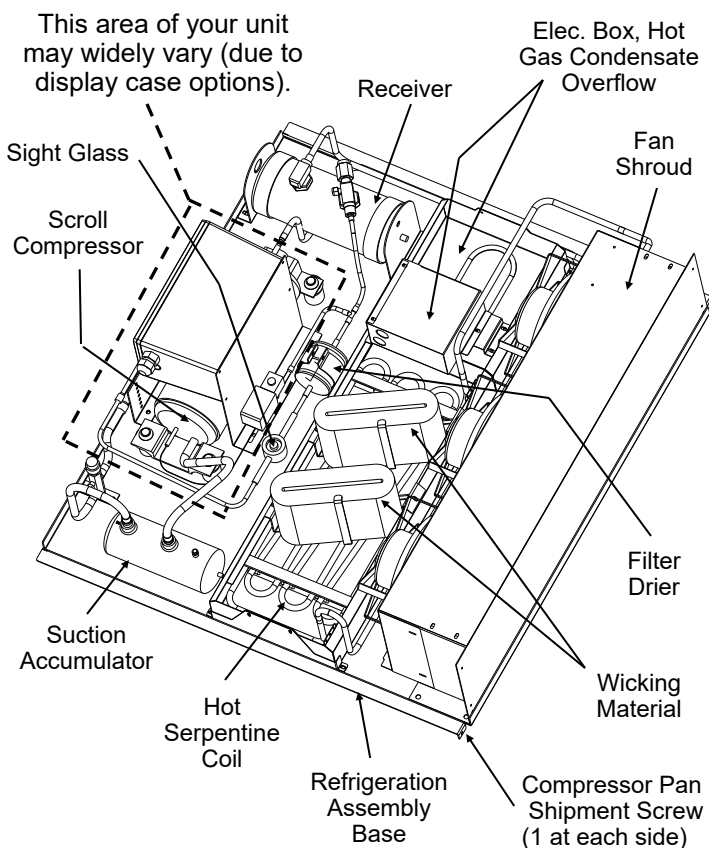
1. Hot Gas "CopeVap" Evaporator System.



3A. Front View of Electrical Heat Rod Evaporator System

2. Hot Gas Evaporator System.

- Hot gas serpentine coil is routed through a condensate reservoir allowing water to be heated. This system uses a wicking material (partially submersed) with warm condenser air passing through it for evaporation.
- Also incorporates an overflow reservoir with heating element to ensure complete condensate removal.



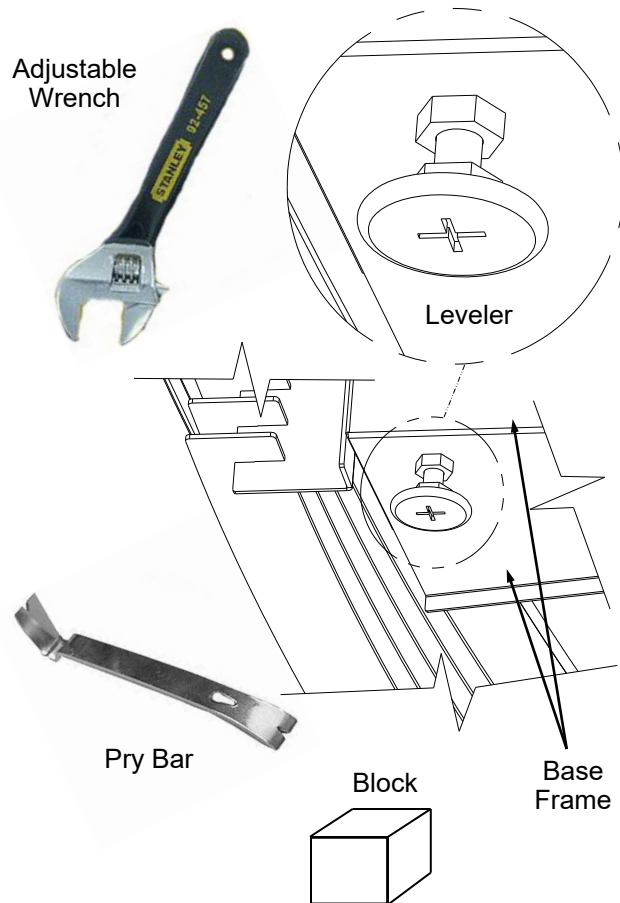
3B. Isometric View of Electrical Heat Rod Evaporator System

1. Position & Align Case Alongside Other Cases

- Before adjusting levelers, make certain that the case is in proper position and, if required, aligned with adjoining case.
- This may require the repositioning of the case you are installing or the already positioned case.

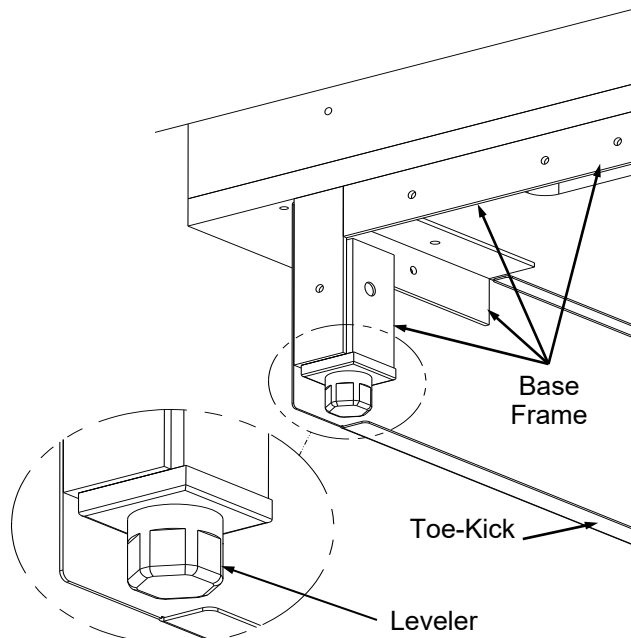
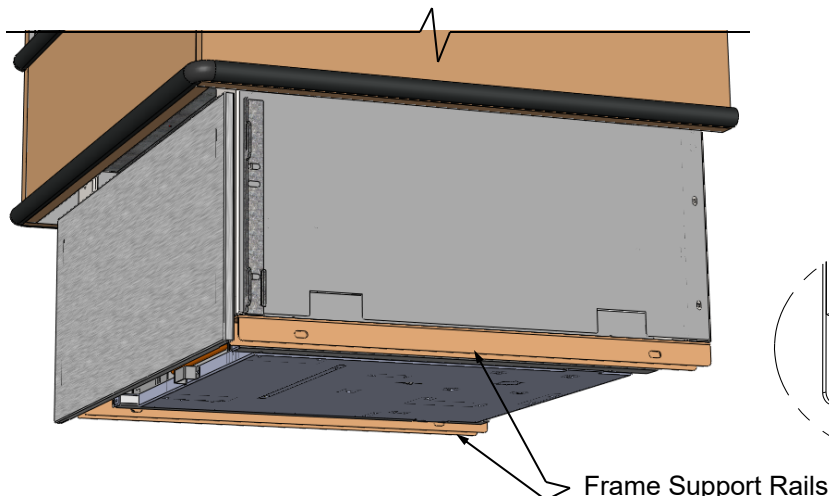
2. Adjust Levelers

- See illustrations and photos at right.
- **Note:** Depending upon options and features chosen, illustrations may not exactly reflect your particular case's features.
- After case is in proper position, adjust case so it is level and plumb (see illustrations at right).
- You may need to remove front and/or rear Toe-Kick to access levelers.
- Use adjustable wrench to adjust leveler.
- Depending upon case weight, it may be necessary to use a Pry Bar to raise the case.
- Do not use Pry Bar on Toe-Kick as it may buckle.
- Do not use Pry Bar on End Panel; it may chip.
- Use Pry Bar **ONLY** on Base Frame to avoid damaging case.



3. Frame Support Rails Must Be Shimmed

- Illustration below shows frame support rails.
- Shims will be provided with all cases that have frame support rails.
- Use shims to level case.
- **Note:** After case is in position, it must be sealed to floor to prevent entry or leakage of liquid or moisture.



ADJUSTING TOE-KICK / REMOVING FRONT GRILLE

1. Adjusting Toe-Kick

Model HMO2653R

- See illustration at top-right.
- Loosen adjustment screws located on toe-kick.
- Adjust Front Toe-Kick up or down.
- Tighten Adjustment Screws.

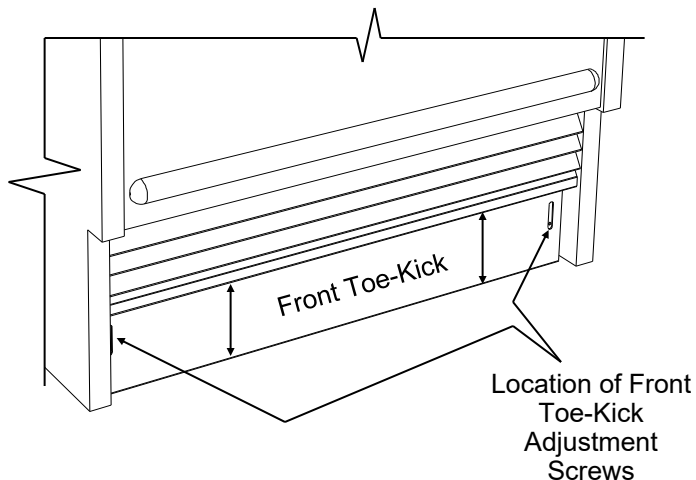
2. Removing Front Grille

>> Grille Removal (With Screws)

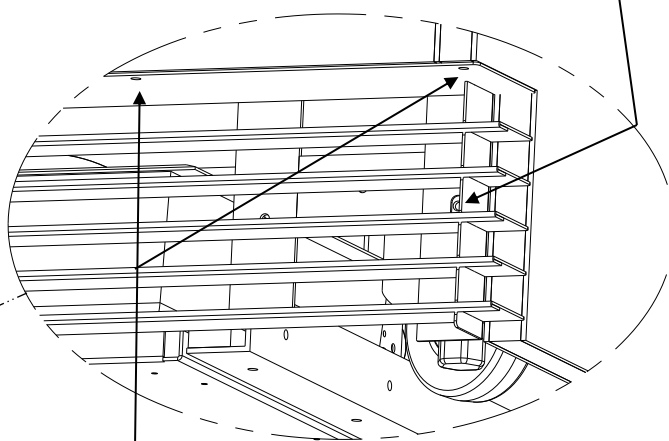
- Remove front grille retainer screws (both horizontal and vertical). See illustration at mid-right.
- Front Grille will fall forward and can be lifted up and away from case.
- Replace Front Grille in reverse order it was removed from case.
- Tighten retainer screws.

>> Grille Removal (Without Screws)

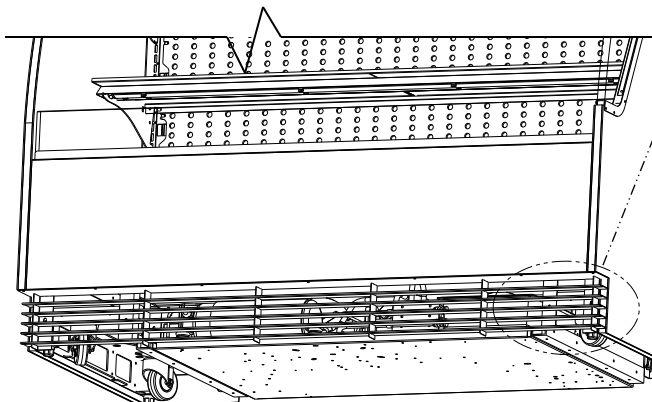
- Front grille is held in place with retaining hooks.
- Simply lift front grille up and off case.
- No screws are required for this particular grille.
- See illustration at lower-right.



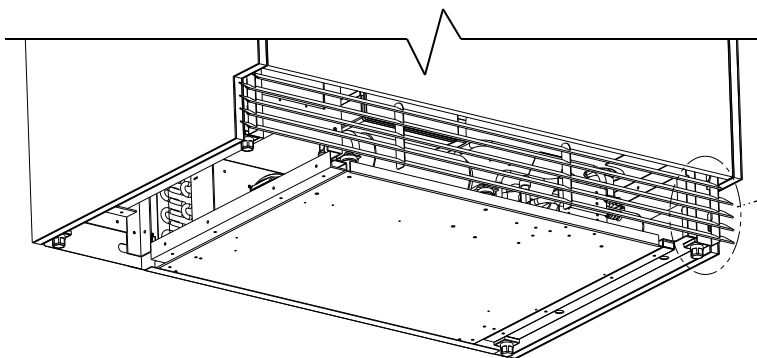
Front Grille Horizontal Retainer Screws
(One at Each End of Case)



Front Grille Vertical Retainer
Screws (Along Entire
Underside of Front Panel)



Front Grille Retaining
Hooks (At Each End
of Grille)



1. Magnetized Condenser Coil Filter (Optional)

- Removable magnetized condenser coil filter is positioned on outside of rear grille.
- It is held in place with magnetic strips.
- It may be removed for cleaning or service.

2. Rear Grille

- Rear grille may be removed by lifting grille slots up and off rear panel's retainer hooks.

3. Rear Panel

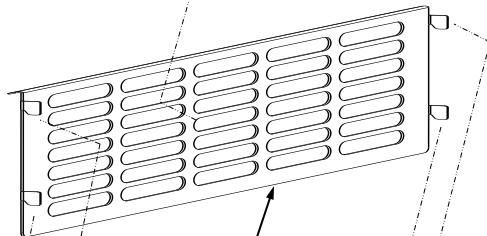
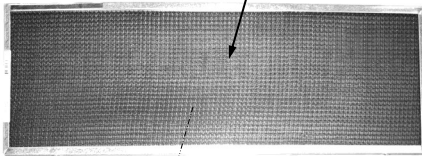
- Rear panel is held in place with four Phillips™ (not flat-head) screws (which may be removed).

4. Compressor Pan Shipment Screws

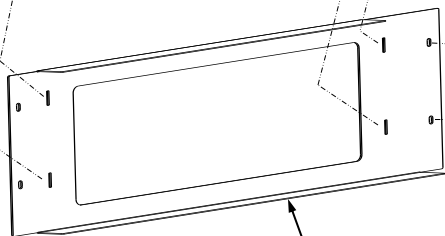
- Note: At initial access to refrigeration package, it may be necessary to remove compressor pan shipment screws.

- Due to location, a Phillips™ (not flat-head) screw with extension may be required.
- See illustration at lower-right.
- For specifics on refrigeration package and its components, see next page.

Removable, Magnetized Condenser Coil Filter (Optional). Note: Filter is to be Placed on Outside of Rear Grille

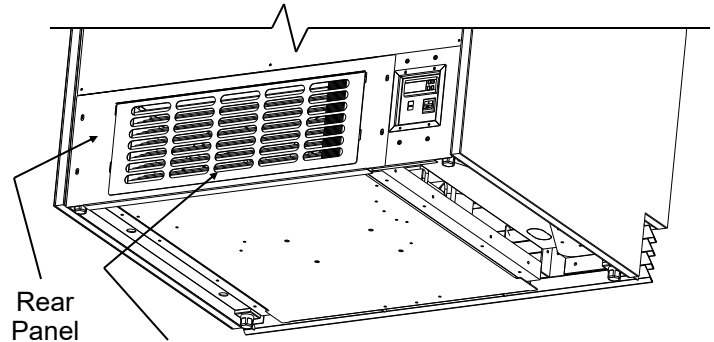


Rear Grille
(Removable by Hooks)

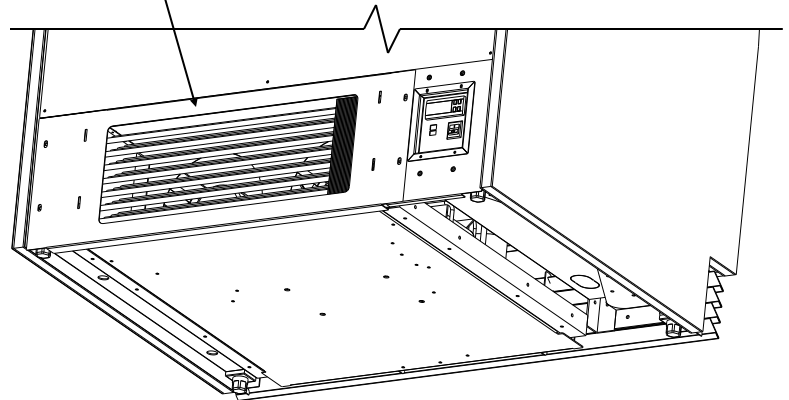


Rear Panel
(Removable by Screws)

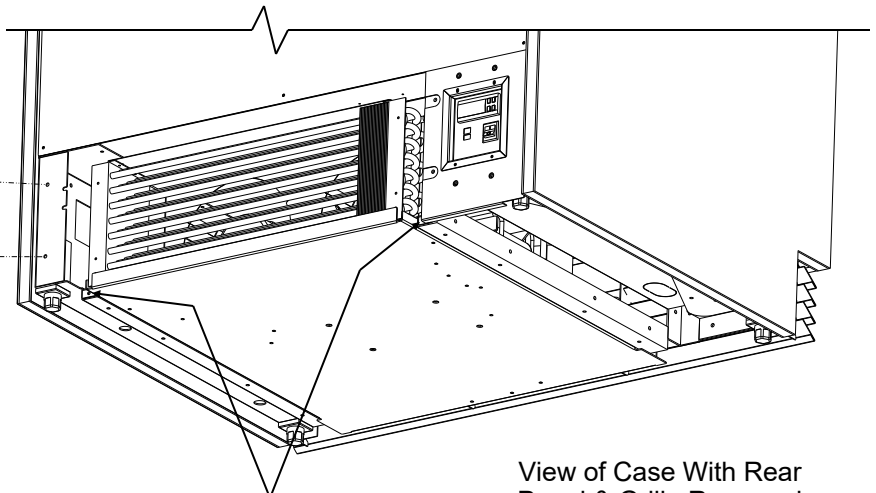
Enlarged View of Rear Grille Panel
(and Grille) Shown Above



View of Case With Rear
Panel & Grille Attached



View of Case With Rear
Grille Removed



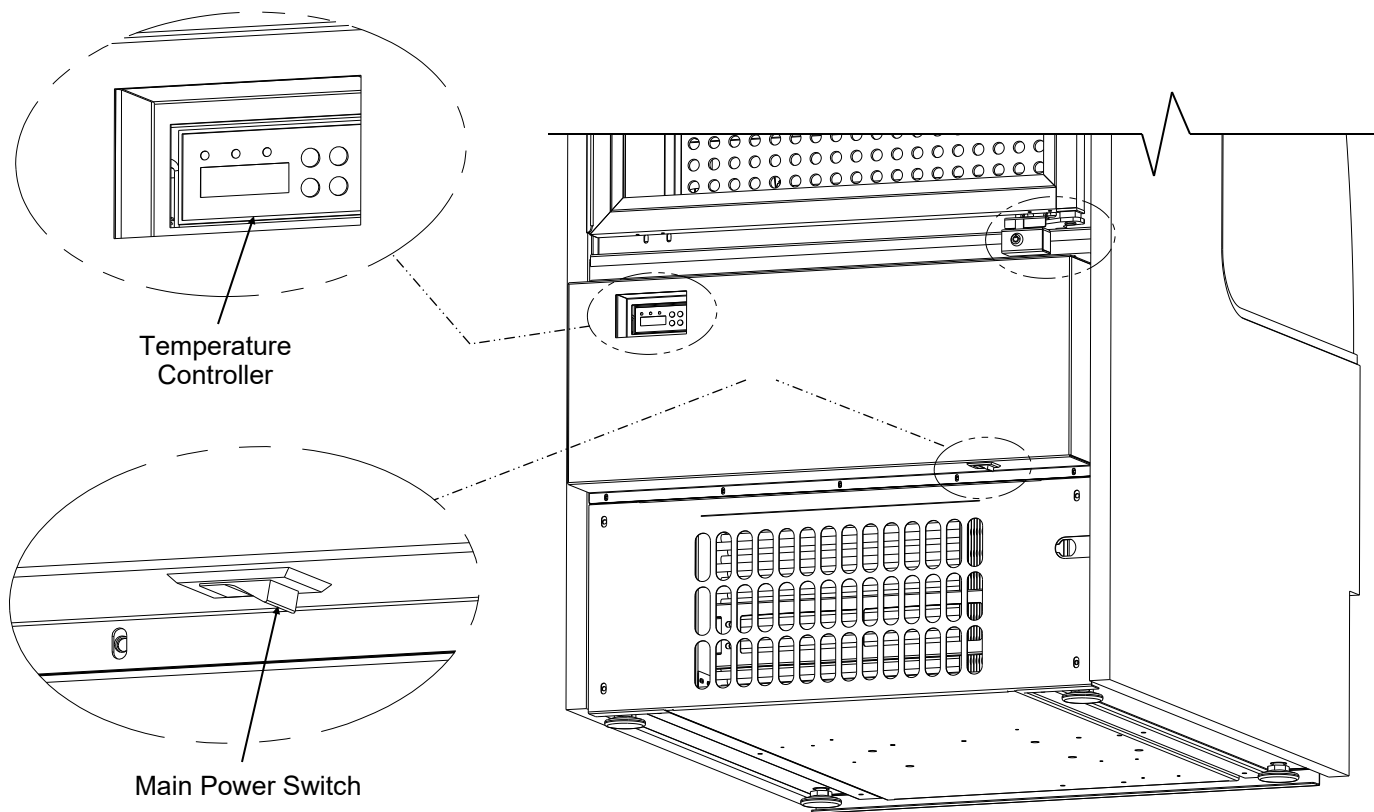
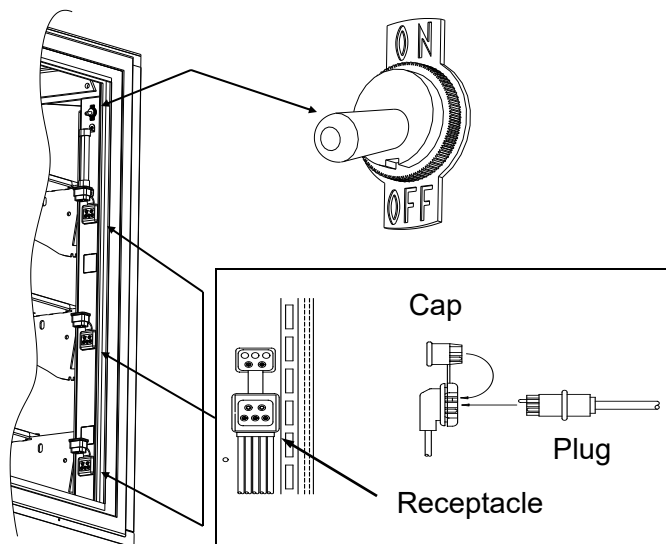
Compressor Pan Shipment
Screw (One at Each End)

View of Case With Rear
Panel & Grille Removed

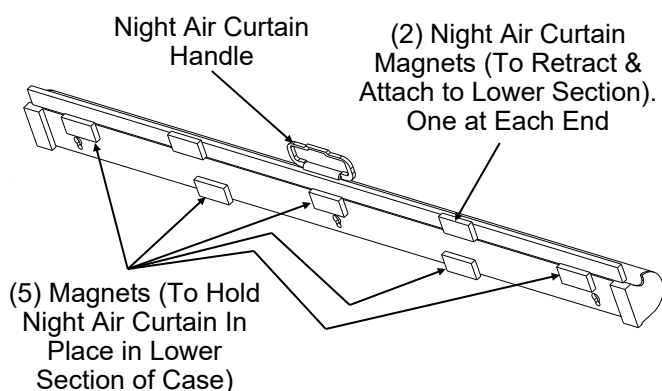
START-UP AND OPERATION

1. Merchandiser Start-Up

- Remote Units: Case is hard-wired. When power is supplied, case will power-up.
- Self-Contained: Main Power switch is located at case rear, lower right. See illustration below.
- Self-Contained: Temperature Controller is located at case rear, lower left. See the illustration shown below.
- Turn on the lights. Whether Remote or Self-Contained, light switch is located on inside of case at top right, from case rear. See illustration at top right.
- All lights should come on at same time. First time lighting may require a short warm up period for the bulbs. Slightly dim or a flickering of new bulbs is normal.
- The lighting is wired in series so **all lights must be plugged in or receptacles capped** for case lights to turn on.



START-UP AND OPERATION, CONTINUED: NIGHT AIR CURTAIN OPERATING INSTRUCTIONS



Underside View of Detached Night Air Curtain

2. Night Air Curtain Operating Instructions

1. Use caution when handling Night Air Curtain. See view of detached Night Air Curtain at top-left.
2. Display case comes with Night Curtain already attached.
3. Attachment Magnets will hold Night Air Curtain firmly in place.
4. Grasp the handle at lower-front-center area of case (shown in enlarged view at lower-left) and pull upward.
5. When extended, the Night Air Curtain magnets may be attached to metal plate in front of honeycomb (as shown below).
6. Magnets (on extended night air curtain) will hold it in place.
7. To return Night Air Curtain to its original position, grasp handle, and lift up and off from its magnetic attachment and carefully wind Night Air Curtain back into roll (into lower section of case).
8. **Caution!** Do not allow spring-loaded Night Air Curtain to freely snap back into roll. Doing so can eventually destroy Night Air Curtain's tension and retractability.
9. **Caution!** Do not slide or drag Night Air Curtain across metal plate (in front of honeycomb) when extending and attaching. Lift end of curtain (and its magnets) straight up and off metal housing to avoid scratching/marring surface.

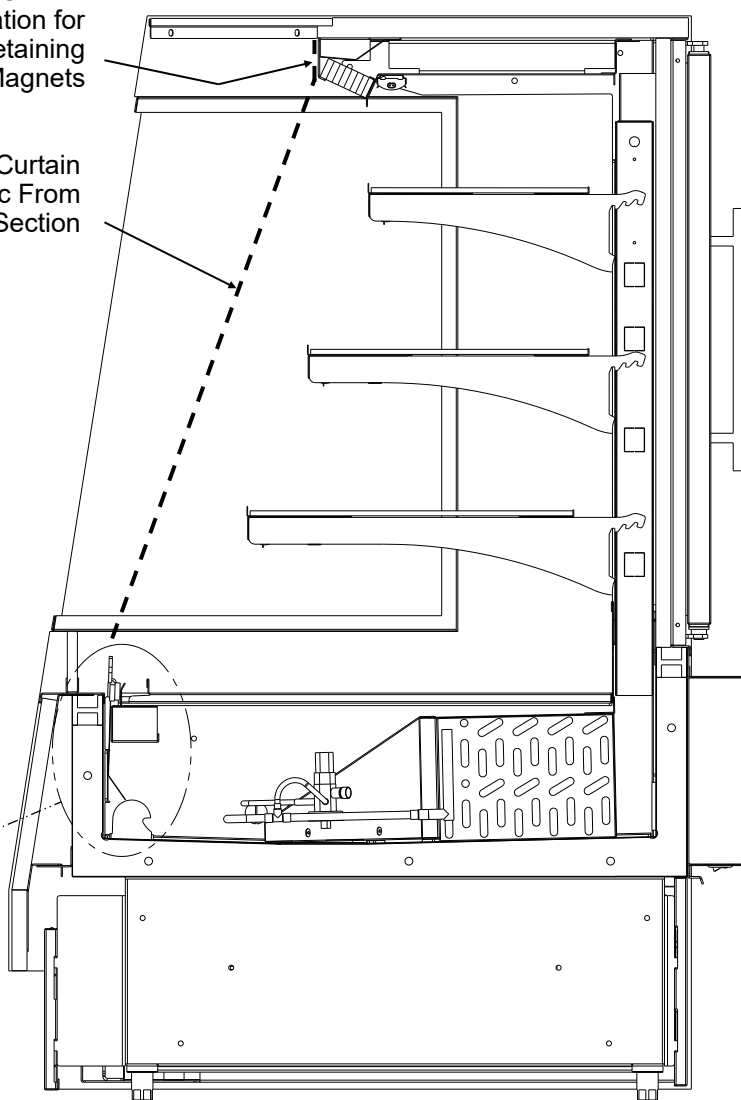
Night Air Curtain General Location for Attaching Retaining Magnets

Night Air Curtain Handle

Night Air Curtain Projected Arc From Lower Section

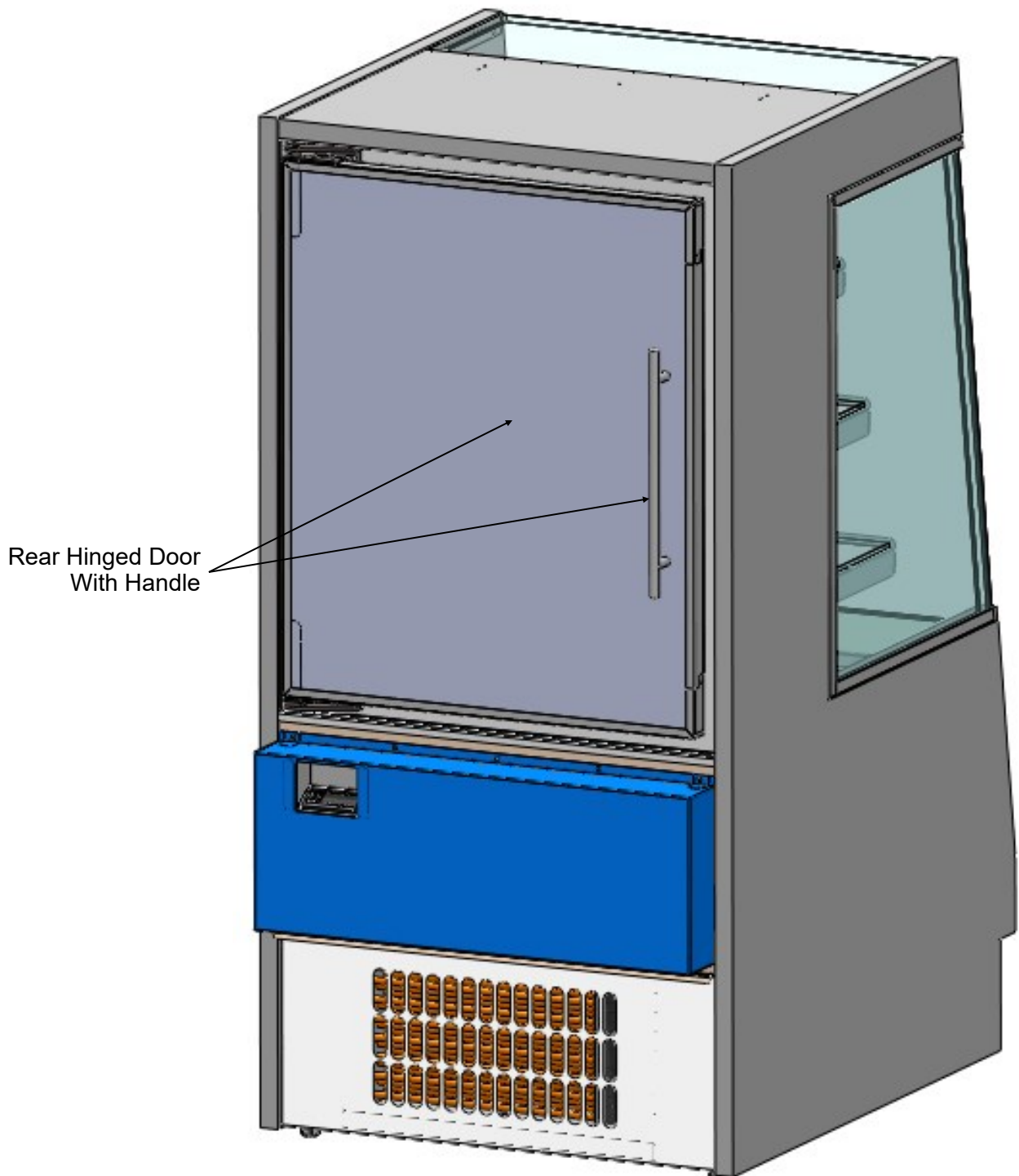
Side View of Attached Night Air Curtain (With End Panel Removed)

Night Air Curtain Roller and Housing



1. Solid Rear Door

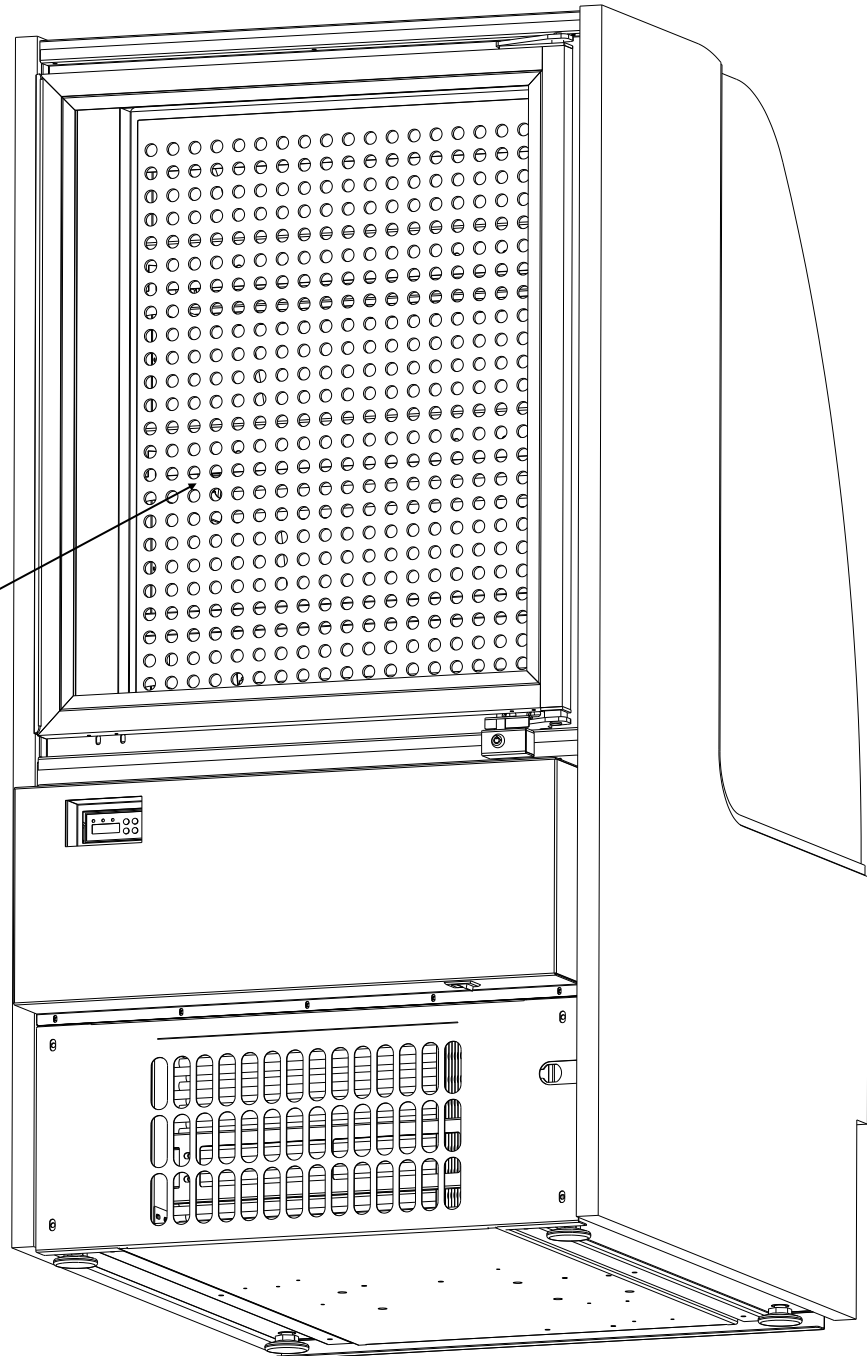
- Illustration below shows standard door for a specific model. Your model may not reflect this feature.
- See next page for case with rear door with access to perforated Plexiglas® plenum (designed to assist in air flow issues).
- **Caution:** Door is designed to open at a specific arc. Do not attempt to open door beyond this arc or you could damage hinges or door!



2. Perforated Plexiglas® Plenum

- The perforated Plexiglas® plenum is designed to assist the case in proper air flow.
- The Plexiglas® plenum may be removed (for cleaning, etc.) by opening the rear door and sliding up and out of frame.
- **Caution:** See cleaning instructions in this manual for specifics on cleaning the Plexiglas® plenum
- See illustration below.
- **Caution:** After cleaning, carefully replace perforated Plexiglas® plenum back into frame. Avoid scraping or marring the surface.

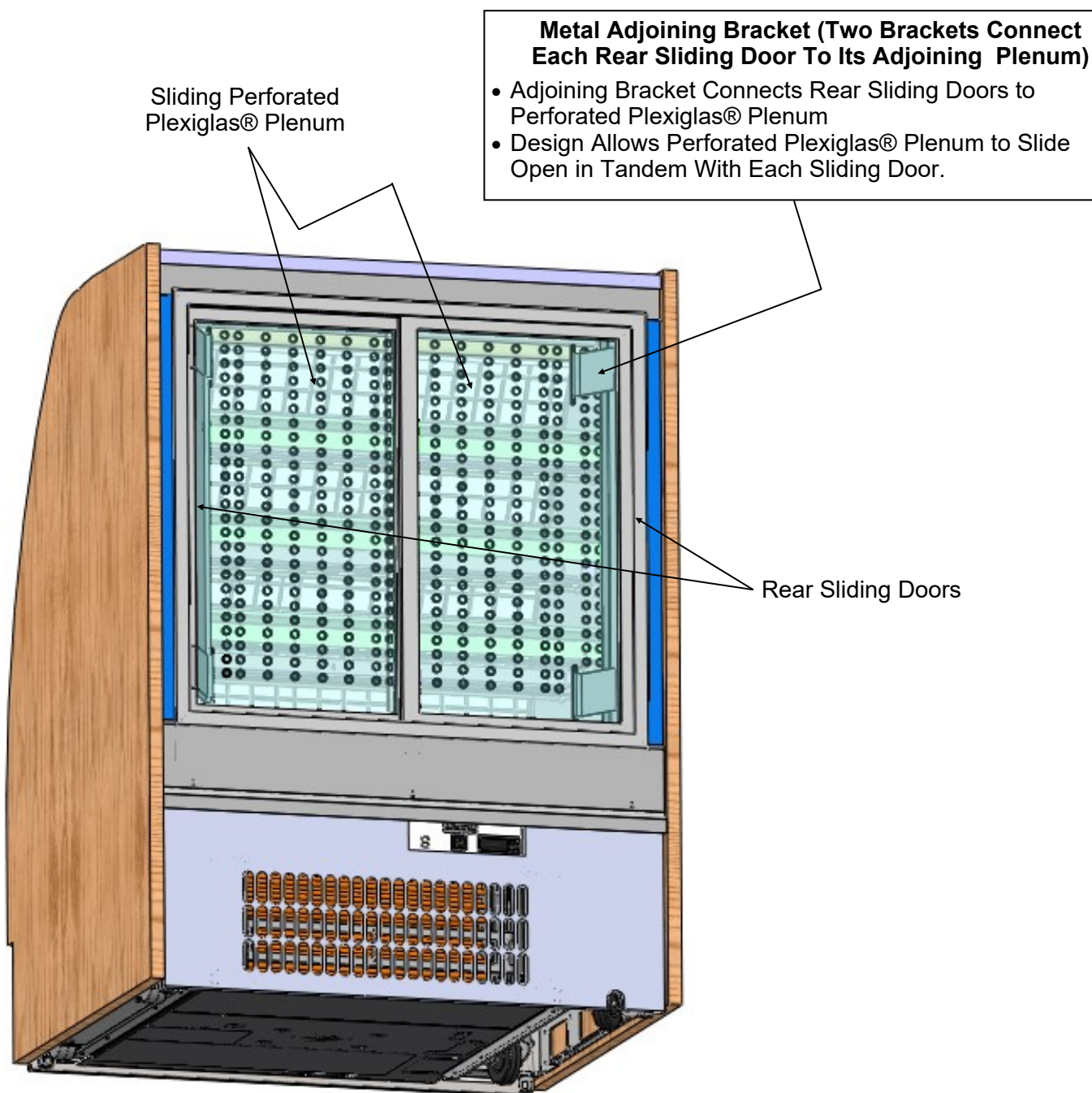
Perforated Plexi Plenum



REAR SLIDING DOOR WITH ADJOINED PERFORATED PLEXIGLAS® PLENUM (MODEL HMO3953R)

Rear Sliding Door With Adjoined Perforated Plexiglas® Plenum

- The perforated plexiglas® plenum is designed to assist the case in proper air flow.
- Two metal adjoiner brackets connect each door to its adjoining perforated Plexiglas® plenum.
- Adjoining Bracket Connects Rear Sliding Doors to perforated Plexiglas® Plenum
- See previous page for instructions on removing perforated plexiglas® plenum (for cleaning, etc.).
- **Caution:** See cleaning instructions in this manual for specifics on cleaning the plexiglas® plenum. Using cleaning solutions that are not listed in this manual can mar plexiglas® surface.
- **Caution:** After cleaning, servicing, etc., carefully replace perforated plexiglas® plenum back into display case. Avoid scraping or marring the surface.



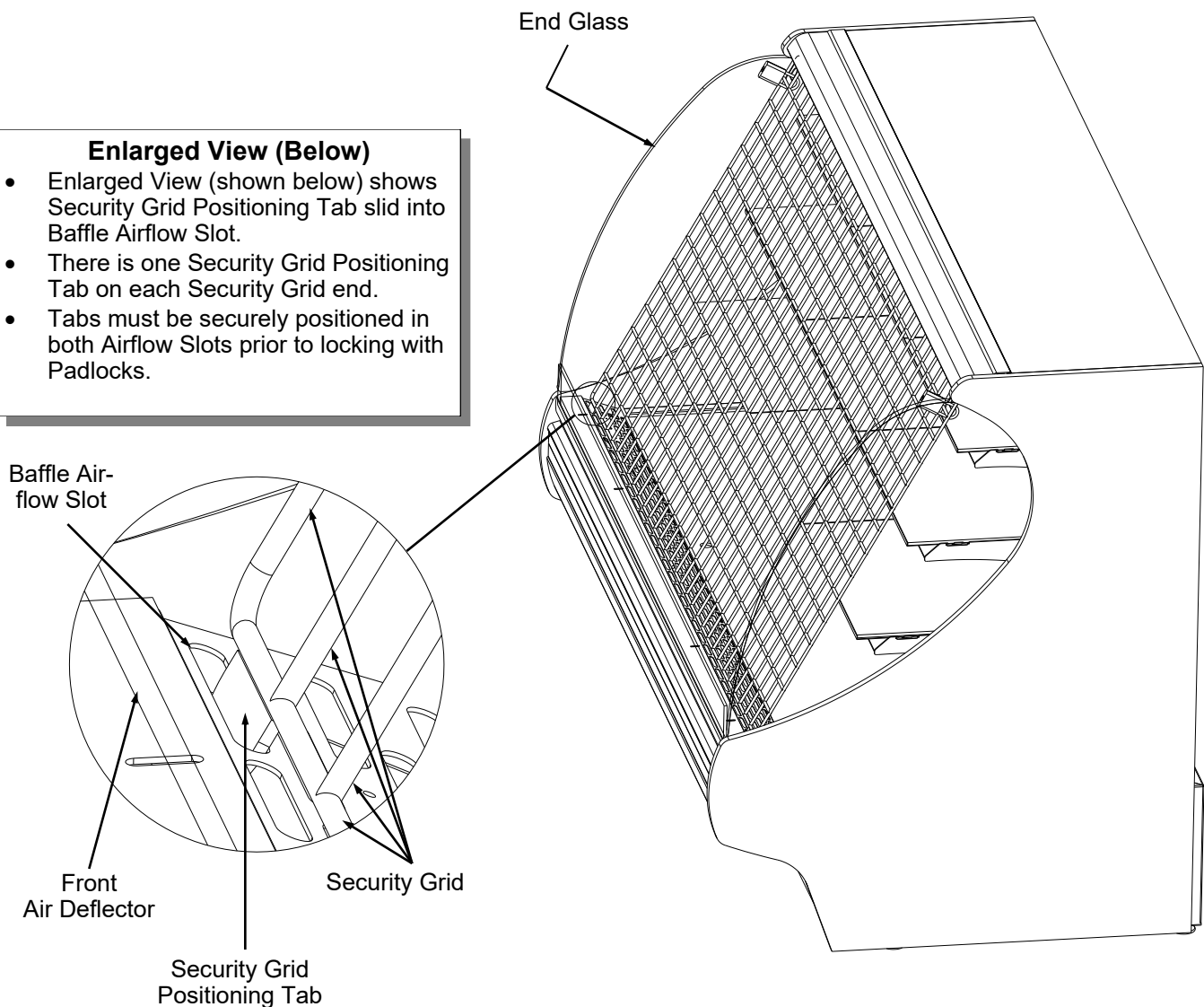
1. Initial Positioning and Installation of Security Grid

- A. Due to weight and size, Security Grid installment requires two (2) people.
- B. After hoisting the Security Grid directly over Front Air Deflector, drop the (2) Security Grid Positioning Tabs into the Baffle Airflow Slots (see enlarged view below).
- C. After securely positioned in the Baffle Airflow Slots, carefully and slowly lean the Security Grid back against the two Security Brackets.
- D. The next page in this manual will show how to secure the top of the Security Grid to the Security Brackets.

**NOTE: ILLUSTRATIONS MAY NOT
EXACTLY REFLECT EVERY
PARTICULAR CASE'S FEATURES**

Enlarged View (Below)

- Enlarged View (shown below) shows Security Grid Positioning Tab slid into Baffle Airflow Slot.
- There is one Security Grid Positioning Tab on each Security Grid end.
- Tabs must be securely positioned in both Airflow Slots prior to locking with Padlocks.



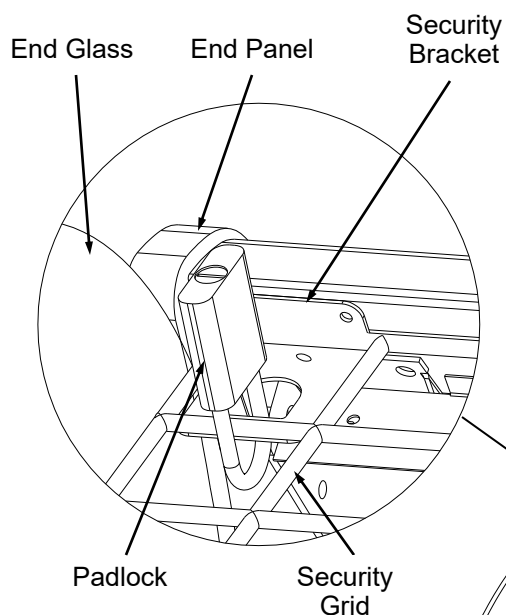
2. Securing Security Grid Into Place and Locking

- A. After leaning the security grid back against the two security brackets, slide the (two) padlocks through the security grid and the security brackets.
- B. Securely lock the padlocks (one key fits both padlocks).

3. Removing and Storing Security Grid and Locks

- A. Due to weight and size, Security Grid removal requires two (2) people.
- B. Unlock and remove padlocks. Lean security grid forward. Lift upward and out of baffle airflow slots.
- C. Store security grid, padlocks and keys in a secure location to prevent theft or damage.

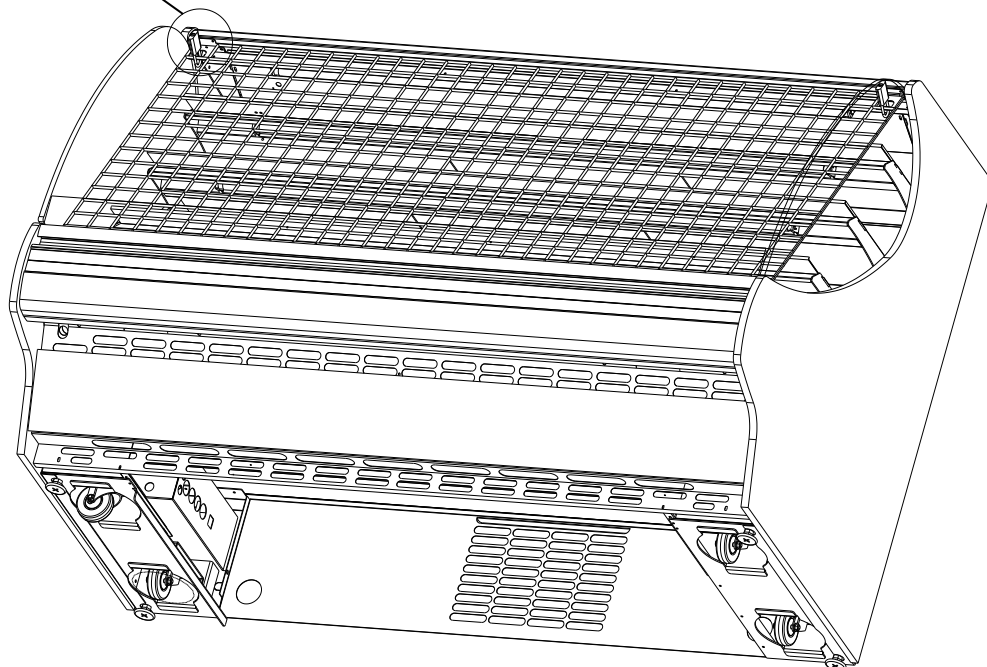
**NOTE: ILLUSTRATIONS MAY NOT
EXACTLY REFLECT EVERY
PARTICULAR CASE'S FEATURES**



Enlarged View (At Left)

- Enlarged View (at left) shows Padlock through Security Grid and Security Bracket.
- One Security Bracket is at each end of Case.

Note: Both Casters and Levelers shown for illustrative purposes only.

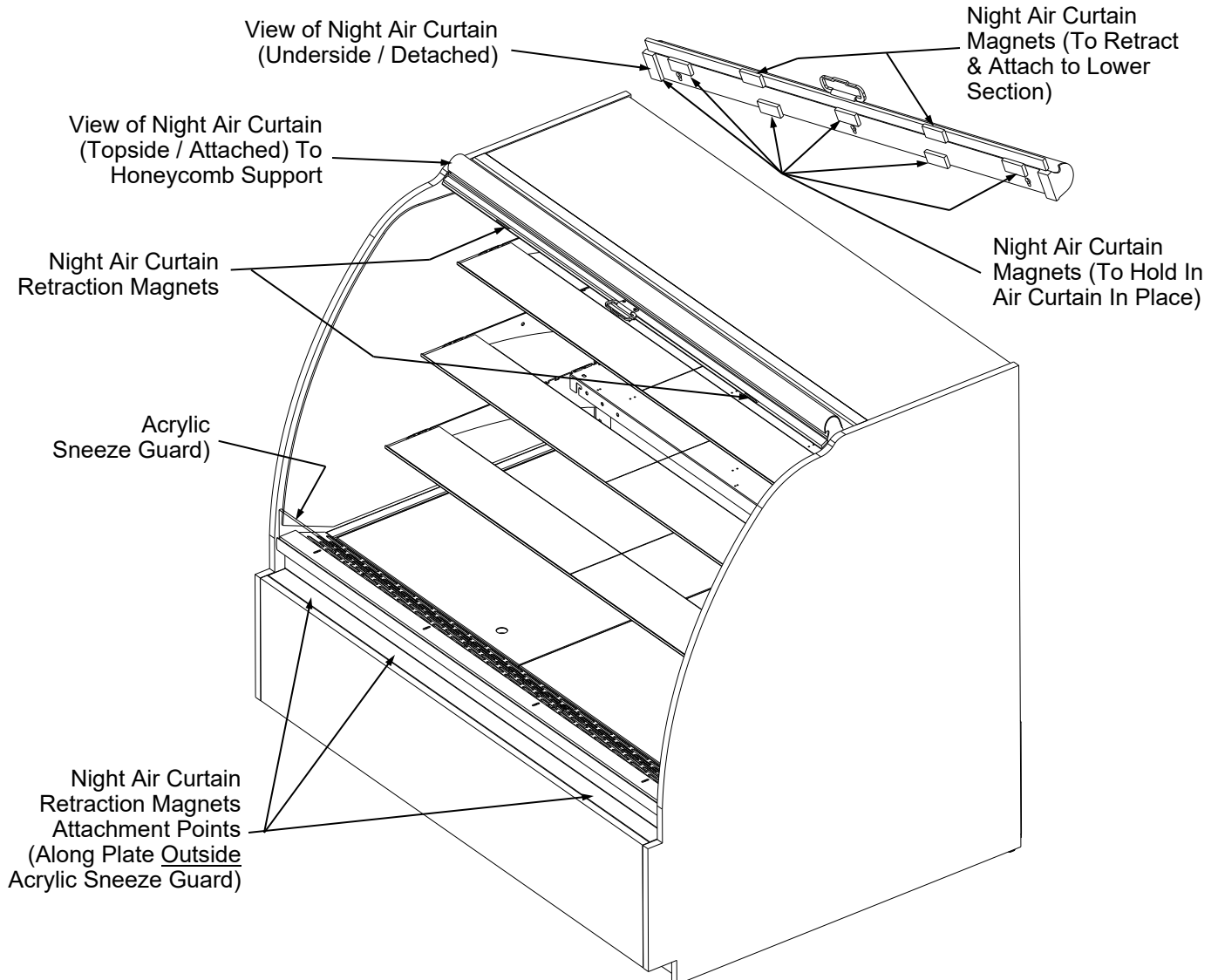


OPTIONAL NIGHT AIR CURTAIN INSTALLATION & OPERATING INSTRUCTIONS

Night Air Curtain Installation & Operating Instructions

1. Use caution when handling Night Air Curtain.
2. Display case may come with Night Curtain already attached. If not, a retrofit kit will be provided. If using SCC-supplied retrofit kit, attach to display case by centering night curtain along angled Honeycomb Support (as shown in illustration below). Attachment Magnets will hold Night Air Curtain firmly in place.
3. Grasp the handle and pull downward to desired area **OUTSIDE** acrylic sneeze guard.
4. To return Night Air Curtain to its retracted position, grasp handle, lift up and away from its magnetic attachment and carefully wind Night Air Curtain back into roll.
5. **Caution!** Do not allow spring-loaded Night Air Curtain to freely snap back into roll. Doing so can eventually destroy Night Air Curtain's tension and retractability.
6. **Note:** Due to **ONLY** the magnets keeping Night Air Curtain Assembly in place, it may be removed at any time by firmly lifting up and off Night Air Curtain Support.
7. **Caution!** Do not slide or drag Night Air Curtain from unit while removing. Lift curtain straight up to avoid scratching or marring honeycomb support surface.

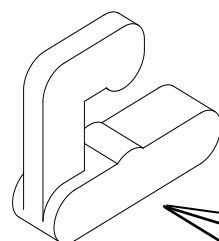
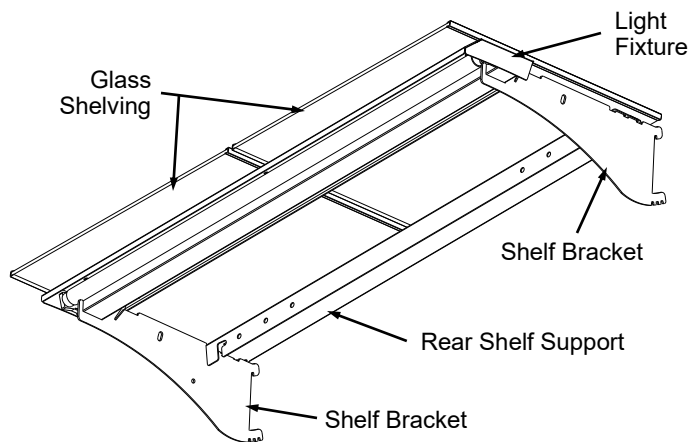
**NOTE: THE
BELOW
ILLUSTRATION
MAY NOT
EXACTLY
REFLECT
EVERY
PARTICULAR
CASE'S
FEATURES
OR
OPTIONS.**



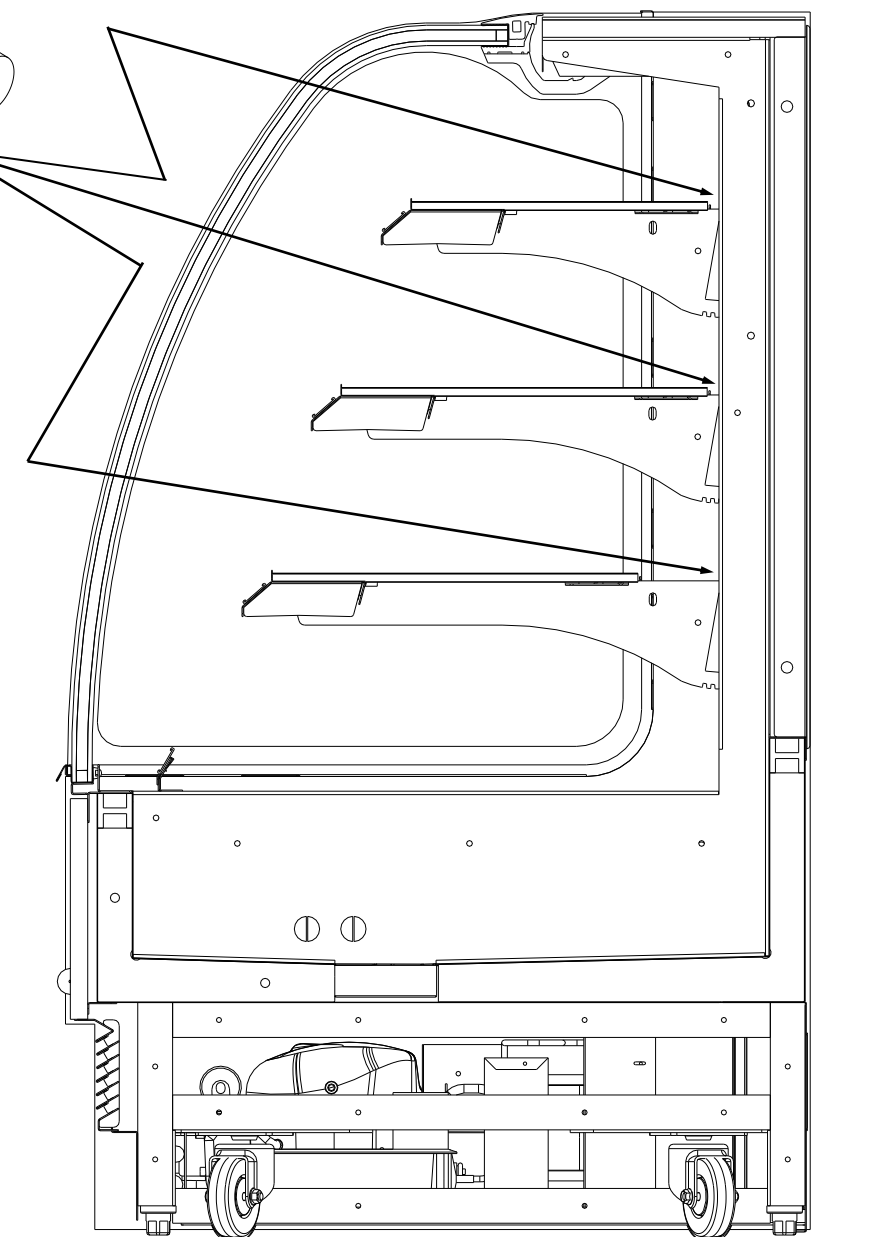
MAINTENANCE: SHELF ASSEMBLY REMOVAL

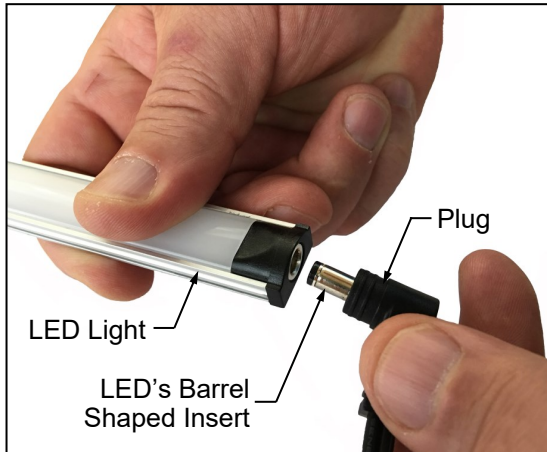
1. Shelf Assembly Removal

- Remove glass shelves
- For lighted shelving, unplug the light cord.
- Lift light shelf upward to separate from brackets.
- Remove rear shelf support
- Remove brackets. Note it may be necessary to remove the nylon shipping bracket retainer. Pliers may be required to accomplish this task.



Bracket Retainers



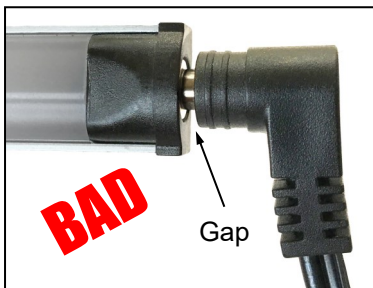


2. Power Cord and Plug

- Power cord and plug (for LED lights) locations vary depending upon model.
- Caution! You must plugged in an approved outlet!

3. LED Lights

- LED lights are usually located at both header and shelving of case; placement on your merchandiser may differ.
- Check that ALL of the light plugs are properly connected to the LED light.
- Plug must be inserted ALL THE WAY into the LED light orifice (with no gap) to work properly.
- See **TROUBLESHOOTING** section in manual if LED lights malfunction.



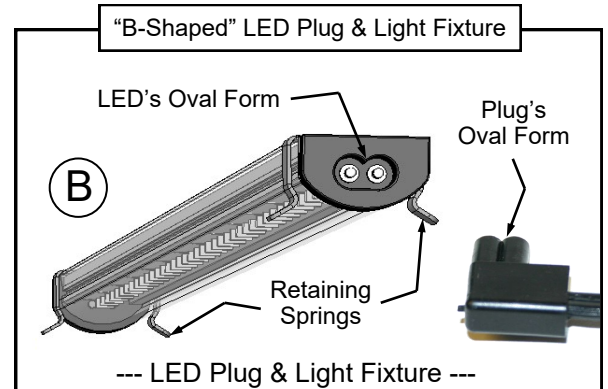
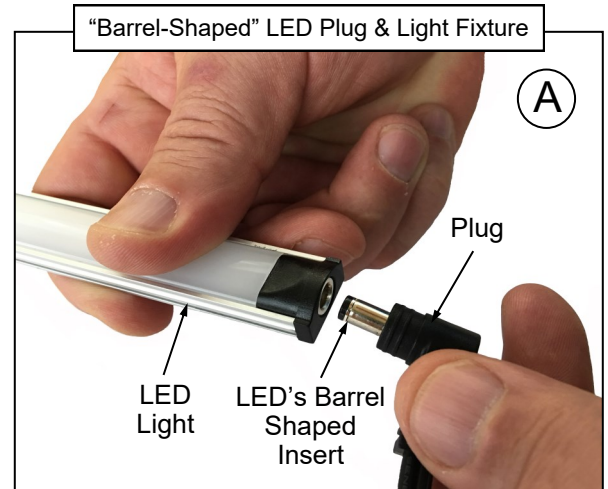
4. LED Style Light Fixtures

Removal of faulty LED light:

- LED lights rarely require change-out.
- To remove faulty LED light, simply grasp light near retaining spring and carefully pull away from its spring. Disconnect plug from LED's socket.
- Contact Structural Concepts' Technical Service Department for replacement parts (see Technical Service section of this manual for information).

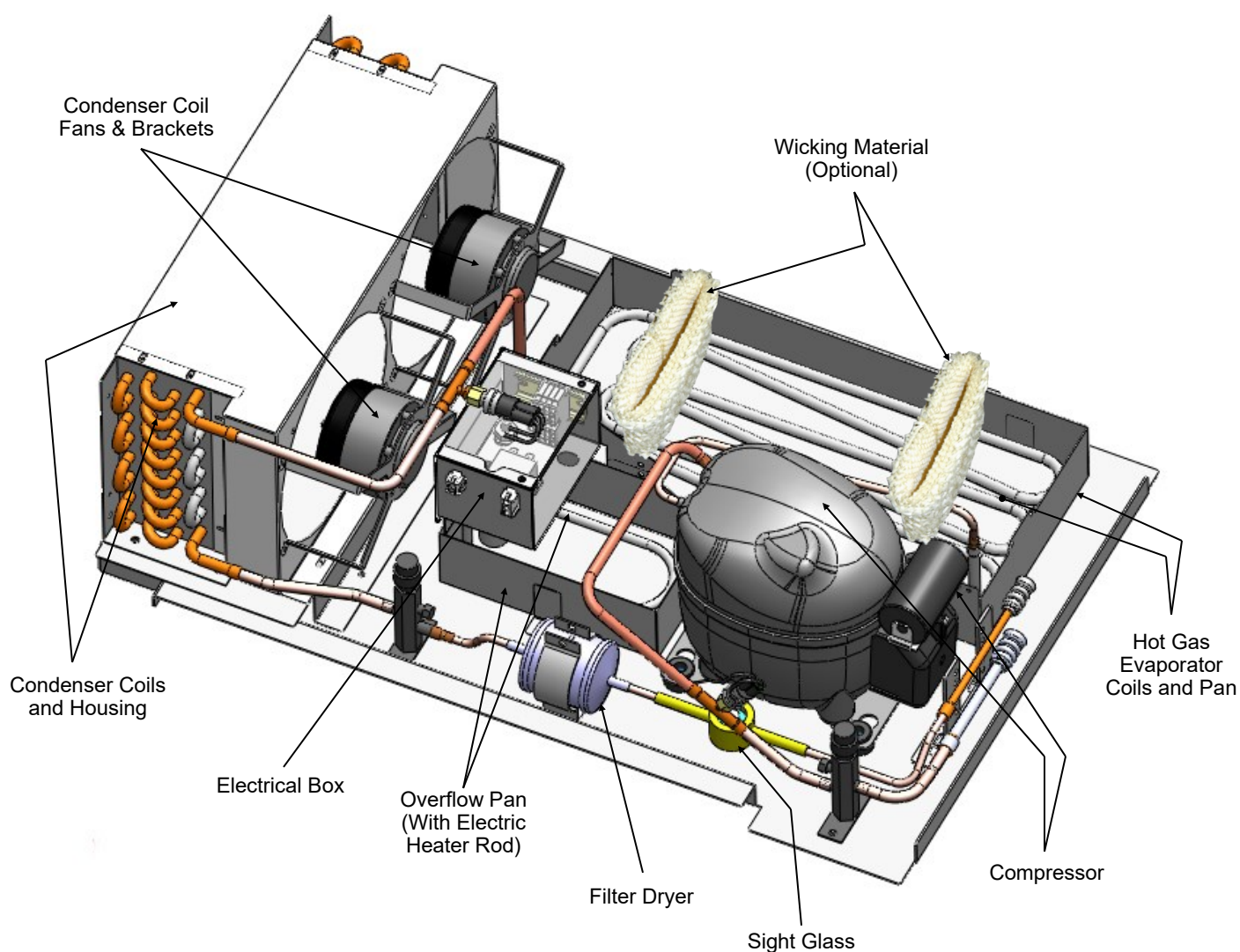
Replacement of LED light:

- To replace LED light fixture, simply insert new LED light at proper position (socket must be near plug). Carefully snap into metal springs so LEDs are held firmly in place.
- **Note:** LED light and plug must be connected in a specific manner or they will not work.
- A. Certain plug designs ("barrel type") merely require that plug be pushed all the way in.
- B. Other plugs require "oval edge" of plug to connect to oval edge of LED light.
- See illustrations at right.



Refrigeration Package Configuration

- Illustration shown is from model HMO2653R.5194.
- Your particular refrigeration package may have different refrigeration package layout.
- Wicking material (shown below) is optional.
- See ***DRAIN, HOSE AND BRACKET PLACEMENT ILLUSTRATIONS*** section in this manual for other refrigeration layouts.



GENERAL CLEANING (TO BE PERFORMED BY STORE PERSONNEL)

AREA TO CLEAN	FREQ.	INSTRUCTIONS
Case Exterior	Daily	Acrylic: Acrylic sneeze guard must be cleaned with a mild soap and water solution and a soft cloth. Caution! Never use ammonia-based cleaners on acrylic. Incorrect cleaning agents or abrasive cleaning cloths cause surfaces to 'cloud' over time.
	Daily	Glass (Including Glass Shelves): Clean side glass, front curved glass and rear glass with a household or commercial glass cleaner and soft cloth.
	Daily	Wood/Laminate/Painted Surfaces: Clean wood, laminate and painted surfaces with a warm soap and water solution and soft cloth. Never use wire cloth or abrasive cleaners on case.
	Daily	Stainless Steel Surfaces: See next page for complete instructions.
	Weekly to Monthly	Air Filter (With Magnetic Strip) on Rear Grille (Optional): <ul style="list-style-type: none"> Depending upon environment, it may be necessary to clean filter as often as weekly. Filter MUST be cleaned at least monthly. Remove from case. Submerge in warm, soapy water. Use soft-bristled brush to remove dust, grease and grime that collects on filter. Rinse thoroughly. After filter has dried, return to case. See REFRIGERATION FUNDAMENTALS section in this manual for illustrations.
Case Interior	Daily	Shelves/Decks/Risers: Shelves, decks and risers can be cleaned with a warm soap and water solution. For stubborn stains/residue, decks and riser can be removed and cleaned with soap and water solution or submersed in hot, soapy water solution. Rinse thoroughly. Dry. Return to case.
	Daily	Glass Behind Rear Plenum (Certain Cases): Remove glass shelves and brackets. Remove rear plenum (see PERFORATED PLEXIGLAS PLENUM - MODEL HMO5153R.4509 & HMO6353R.4577 section for removal instructions). Clean rear glass with a household or commercial glass cleaner and soft cloth. Replace brackets and glass shelves when complete.
	Weekly	Shelf Supports / Air Return Grilles / Decking <ul style="list-style-type: none"> Wipe off shelf supports, air return grilles and decking with moist cloth. Shelf supports can be removed for more thorough cleaning. Air return grilles can be removed for more thorough cleaning. Decking is NOT to be removed by store personnel.
	Monthly	Condenser Coil: 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 INSTALLATION section in this manual for instructions on side panel removal.

CLEANING SCHEDULE - STAINLESS STEEL (TO BE PERFORMED BY STORE PERSONNEL)

General Stainless Steel Surface Cleaning (To Be Performed As Often As Needed):

- Certain grades of stainless steel, and some are more prone to corrosion than others.
- Stainless steel can become exposed to a wide variety of contaminants, which if left untreated can cause stains and rust.
- Stainless steel requires a specific cleaning procedure to maintain its sheen and remain rust-free.
- Wash with a solution of liquid dishwashing detergent and hot water.
- Rinse with pure hot water from spray bottle. Wipe with clean sponge. This will remove soap residue that can lodge in stainless steel's microscopic grooves, causing rust.
- Dry with clean, soft cloth or paper towel.
- ***Caution!*** To prevent rust, you ***MUST*** rinse with pure hot water from a spray bottle while wiping with clean sponge after EACH cleaning.
- ***Caution!*** Never clean with scouring powder or steel wool as they can mar, scratch and/or erode the surface of stainless steel. When the surface properties of stainless steel have been compromised, rust can form.

Brightening:

- ***Method 1:*** Brighten by polishing with a soft cloth or sponge with a solution of one part vinegar to 2 parts water in a spray bottle.
- ***Method 2:*** Sprinkle baking soda on sponge and rub gently with soft cloth or sponge.
- ***Caution!*** To prevent rust, you ***MUST*** rinse with pure hot water from a spray bottle while wiping with clean sponge after EACH cleaning.
- Dry with clean, soft cloth or paper towel.

Removing Streaks or Stains:

- ***Method 1:*** Place two teaspoons of rubbing alcohol on a microfiber cloth or pad. Rub the cloth along the grain of the appliance until the entire area has been wiped. The rubbing alcohol will air dry itself.
- ***Method 2:*** Dip soft cloth or sponge in club soda and rub gently over area of concern.
- ***Caution!*** To prevent rust, you ***MUST*** rinse with pure hot water from a spray bottle while wiping with clean sponge after EACH cleaning.
- Dry with clean, soft cloth or paper towel.

Polishing:

- Place a dab of olive oil onto clean soft cloth. Spread over area until a light sheen is observed. Use pressure to "work the oil" into the small grooves in the surface. Apply firm, steady pressure using small circular motions.
 - > ***Dry buff:*** Remove excess oil with clean cloth or paper towel using small circular motions.
 - > ***Wet buff:*** Use an ounce or white vinegar with clean cloth or paper towel using small circular motions.
 - > Continue wiping until oily finish has been removed.
- ***Caution!*** To prevent rust, you ***MUST*** rinse with pure hot water from a spray bottle while wiping with clean sponge after EACH cleaning.
- Dry with clean, soft cloth or paper towel.

Removing Rust:

- If rust has begun to form, there are a variety of products that can treat it.
- Among these are CLR® (calcium, lime and rust remover) and Chemetall Oakite 33 (rust, oxides and scale remover).
- ***Caution!*** To prevent food contamination, personal injury or further corrosion, carefully observe and follow the rust removing product's precautions and instructions.

TROUBLESHOOTING (TO BE PERFORMED BY STORE PERSONNEL)

CONDITION	TROUBLESHOOTING
Case Is Not Level	See POSITIONING & ALIGNING CASE / ADJUSTING LEVELERS section in this manual for additional information.
Water Is On The Floor	Call service provider.
Fan Emits Excessive Noise	Call service provider.
Case Lights Are Not Working	Check that light switch is in the <i>on</i> position.
	Check that ALL of the light cords and plugs are properly connected. See MAINTENANCE - LIGHT FIXTURES (LED LIGHT FIXTURES) section in this manual for specifics.
	If case lights still do not come on, call service provider.
Case is Not Holding Proper Temperature	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.
	Check that the case is not in the sun or near a heat or air-conditioning vent. See OVERVIEW / NSF® TYPE / COMPLIANCE / WARNINGS / PRECAUTIONS section in this manual for specifics.
	Check that air filter and condenser coil has been cleaned. See GENERAL CLEANING (TO BE PERFORMED BY STORE PERSONNEL) section in this manual for specifics.
	Check air return grilles (area at front of decking) for obstructions. DO NOT set product on air grilles as this will prevent proper airflow!
	If case still is not holding proper temperature, call service provider.

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

AREA TO CLEAN	FREQUENCY	INSTRUCTIONS
Case Interior	Monthly	Evaporator Fan Shroud Area (Under Decking): <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 decks from case. 3) Clean fan shroud area (and surrounding tub area) with moist cloth.
	Quarterly	Tub & Drain: <i>Caution! Due to rotating fans in area, turn off case and disconnect plug from wall outlet before beginning tub & 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.
	Quarterly	Wicking Material: Check that wicking material is still in good condition (hot gas condensate pans only). <ul style="list-style-type: none"> • Wicking material may be dirty or worn and need replacement. • Slide refrigeration system out from under unit. • Check whether wicking material is tattered, torn or disintegrating. • If wicking material is decomposing or is disrepair, replace with new. If wicking material is not available, contact Structural Concepts®. See toll-free number at last page of this operating manual.

CONDITION	TROUBLESHOOTING
Case Not Lining Up	See Installation Section for instructions on properly aligning case (alongside other cases) and adjusting levelers.
Water Is On The Floor	<p>Caution! Water on flooring can cause much damage! Until cause is determined (and repaired), following these procedures:</p> <ul style="list-style-type: none"> • Use wet-dry vacuum (or mop & bucket) to remove standing water. • Use 'catch pans' for water to drain into. Swap out regularly until case has completely drained. <p>Note: See <i>Drain, Hose and Bracket Placement Illustrations</i> sheet in this manual for views of different evaporator systems used in display cases.</p>
	Check that the drain trap is free of debris.
	Check that the drain hose is correctly positioned over evaporator pan (or floor drain, for remote units).
	Check store conditions. To prevent condensation in NSF® Type 1 environments, maximum conditions are to be 55% humidity / 75° Fahrenheit. For NSF® Type 2, maximum conditions are to be 60% humidity / 80° Fahrenheit. See serial label (at case rear near main power switch) for NSF® Type of your case.
	Check evaporator pan float for proper operation (Heat Rod Evaporator System only).
	Check that evaporator pan is properly plugged in or connected.
	<p>Caution! Evaporator pan may be malfunctioning (Electrical Heat Rod Evaporator system). If so, water will overflow pan and seep onto flooring causing damage! Until evaporator pan is functioning (or is replaced), following these procedures:</p> <ul style="list-style-type: none"> • Use wet-dry vacuum (or mop & bucket) to remove standing water. • Use 'catch pans' for water to drain into. Swap out regularly until case has completely drained.
	<p>Caution! Disruption of power can cause water to overflow pan and seep onto flooring causing damage! Check that power to case is constant. Until power is restored, following these procedures:</p> <ul style="list-style-type: none"> • Use wet-dry vacuum (or mop & bucket) to remove standing water. • Use 'catch pans' for water to drainage. Swap out regularly until evaporation of case is complete (or until power is restored). <p>When power to case is restored, evaporator pan should function properly and water will no longer overflow onto flooring.</p>
	<p>Caution! Wicking material may be dirty, worn or disintegrating and need replacement (hot gas evaporator system only).</p> <ul style="list-style-type: none"> • Slide refrigeration system out from under unit. • After refrigeration system has been carefully slid out from under unit, replace wicking material with new. If wicking material is not available, contact Structural Concepts®. See toll-free number at last page of this operating manual.

CONDITION	TROUBLESHOOTING
Fan Emits Excessive Noise	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.
Fans Are Not Working	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.
Digital Control Display Is Blank	Check that the MAIN power switch is on.
	Check the circuit breaker box for tripped circuits.
System Not Operating	Check that the utility power is on.
	Check that the MAIN power switch is on.
	Check the circuit breaker box for tripped circuits.

CONDITION	TROUBLESHOOTING
Case Lights Are Not Working	Check that light switch is in the <i>on</i> position.
	Check that ALL of the light cords and plugs are properly connected. See MAINTENANCE - LIGHT FIXTURES (LED LIGHT FIXTURES) section.
	Service Technicians Only: Check voltage at LED drivers. If voltage is entering but not exiting, LED driver may be faulty.
Control Display Is Flashing	See your case's serial label for your model's specified settings. See SERIAL LABEL LOCATION & INFORMATION LISTED / TECH INFO & SERVICE for label location, etc.
Case Is Not Holding Temperature	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 will indicate defrost cycle in progress.
	Check that case is not in sun or near a heat or air-conditioning vent. See OVERVIEW AND WARNINGS section in manual for adverse conditions/spacing issue parameters.
	If case is located near front doors, temperature fluctuation can hinder unit's ability to maintain temperature. See OVERVIEW AND WARNINGS section in manual for adverse conditions/spacing issue parameters.
	Check that magnetic air filter (attached to rear grille) has been cleaned. See GENERAL CLEANING (TO BE PERFORMED BY STORE PERSONNEL) section in operating manual for instructions.
	Check that condenser coil has been cleaned.
	Check air return grilles for obstructions.
	Check sight glass for flashing and/or low charge.
	Check Set Point Temperature; it may be adjusted too high.
Condensing Unit Is Not Operating	Check that the power is turned on.
	Determine if temperature controller settings are properly set. See your case's serial label for your model's specified settings. See SERIAL LABEL LOCATION & INFORMATION LISTED / TECH INFO & SERVICE section in manual for label location, etc.

TROUBLESHOOTING (BY TRAINED SERVICE PROVIDERS ONLY) - CONDENSING SYSTEM

CONDITION	TROUBLESHOOTING
Head Pressure Too High	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.
Head Pressure Too Low	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
Low Suction Pressure	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.
High Suction Pressure	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 a. Poor thermal contact. b. Warm location.
	Check Compressor: Low capacity means it is undersized for its application.

PREVENTIVE MAINTENANCE (TO BE PERFORMED BY TRAINED SERVICE PROVIDER)

WARNING! TURN OFF CASE BEFORE PERFORMING PREVENTIVE MAINTENANCE!

PREVENTIVE MAINTENANCE	FREQ.	INSTRUCTIONS
Case Exterior	Quarterly	<p><u>Condensing Coil:</u></p> <ul style="list-style-type: none"> Remove panel to access area by lifting up and off or by screw removal (depending on case). Use air pressure or industrial strength vacuum; clean dust and dirt that may collect on the Condenser Coil. Caution! Airborne dust can contaminating food! Use wet rags to cover area where air pressure is blowing. Warning! Coil fins are sharp. Handle with care! Return panel to case.
	Quarterly	<p><u>Refrigeration Package/Compressor Area:</u> <i>Caution! Be certain to disconnect power from case before cleaning Refrigeration Package!</i></p> <ul style="list-style-type: none"> <i>Warning! Evaporator Pan Is HOT! Disconnect power from case and allow to cool before cleaning evaporator pan!</i> Slide/Roll compressor package out from under case. See REFRIGERATION FUNDAMENTALS section for in-depth instructions on accessing the evaporator pan. 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. Electric heater coil evaporator pans can be removed and cleaned. 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. Use moist cloth to wipe off dust & debris that collects on various parts (fans, sight glass, overflow pan, etc.). Slide refrigeration assembly back under case. Replace front panel and lower grille via hooks (no screws required).
	Quarterly	<p><u>Under Case Cleaning:</u> Once refrigeration package is clear of unit, vacuum under case to remove dust and dirt that may collect under case.</p>
Case Interior	Quarterly	<p><u>Tub Area (Evaporator Coil, Drain, Fans, Brackets):</u></p> <p>Caution! Disconnect power from the case before cleaning tub, coil, fan, motor and drain area!</p> <ul style="list-style-type: none"> Use vacuum to clean entire area. After vacuuming, clean area with warm water, clean cloth, and mild soap solution. Remove any debris that may clog drain. Wipe down fan blades, motors and brackets with moist cloth.
	Quarterly	<p><u>Honeycomb:</u> Check honeycomb air diffuser to determine if it is dirty. If dirty, remove from case. See MAINTENANCE FUNDAMENTALS - HONEYCOMB AIR DIFFUSERS (SERVICE TECHNICIANS ONLY) section of this manual (next page) for cleaning specifics.</p>

PREVENTIVE MAINTENANCE OF HONEYCOMB AIR DIFFUSERS (SERVICE TECHNICIANS ONLY)

Honeycomb Air Diffuser Removal

See **PREVENTIVE MAINTENANCE (TO BE PERFORMED BY TRAINED SERVICE PROVIDER)**

section in this manual for cleaning frequency.

A. Wedge a non-metallic device of suitable strength (such as a ballpoint pen) between the honeycomb and the 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. Carefully pry downward and away from the 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's blow mode (vs. suction mode).

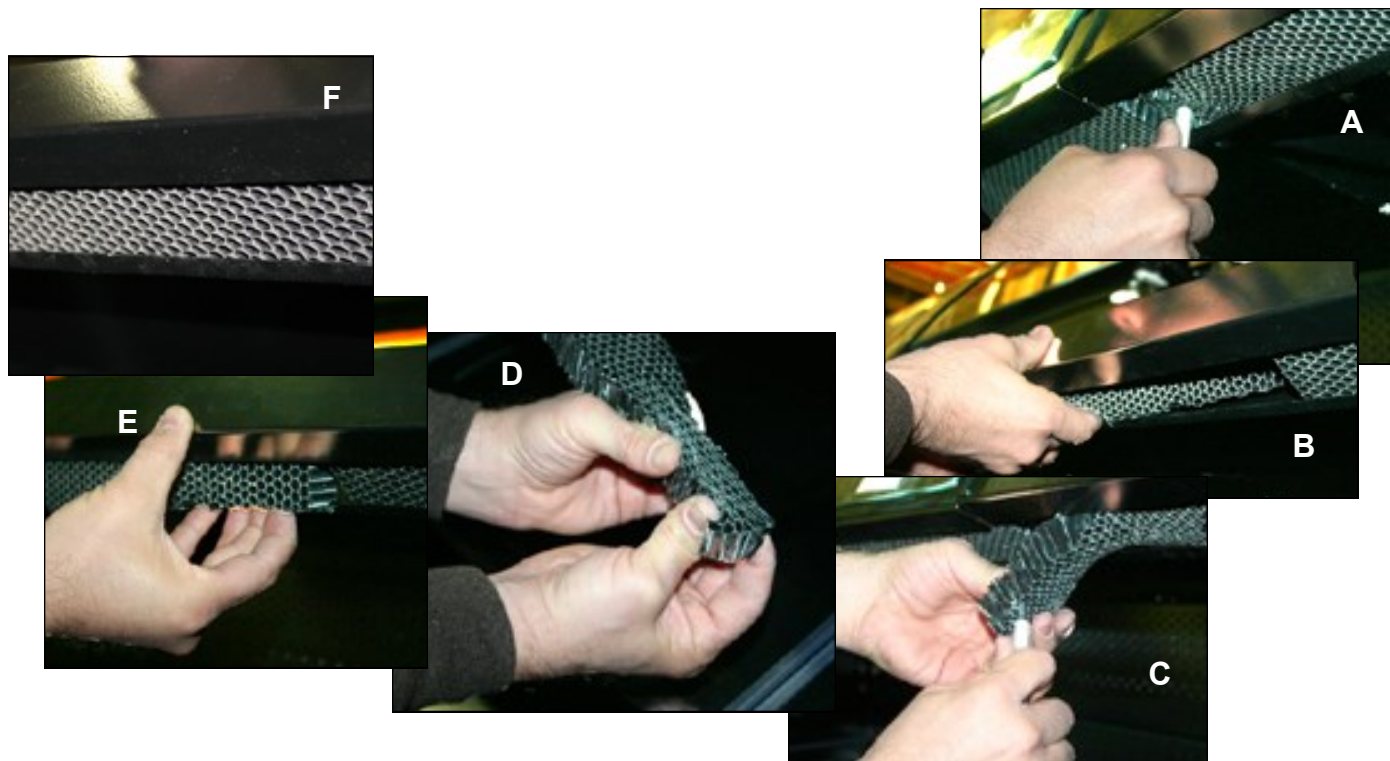
Honeycomb Air Diffuser Installation

D. Squeeze honeycomb to allow it to fit into the honeycomb retainer.

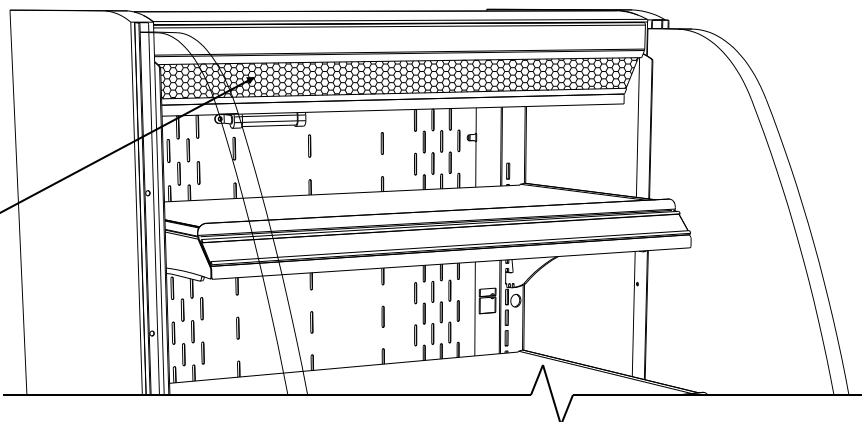
E. Carefully slide honeycomb into place.

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.



View of Honeycomb Air Diffuser (Typical on All Cases)




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

SAMPLE ONLY

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

SAMPLE ONLY

ELECTRICAL RATING
REFRIGERANT
DESIGN PRESSURE
MINIMUM CIRCUIT AMPACITY
MAXIMUM OVERCURRENT


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

SAMPLE ONLY

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

SAMPLE ONLY

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



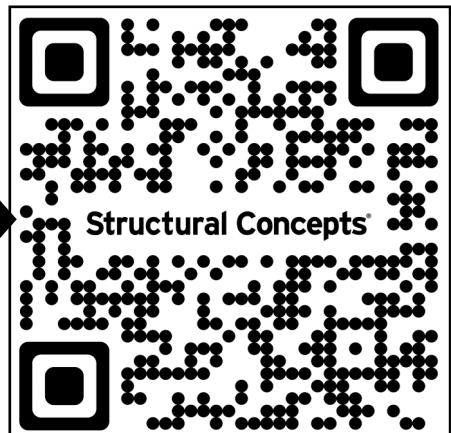
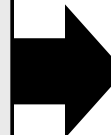
Carel® iJF Platform



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 PM 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.

