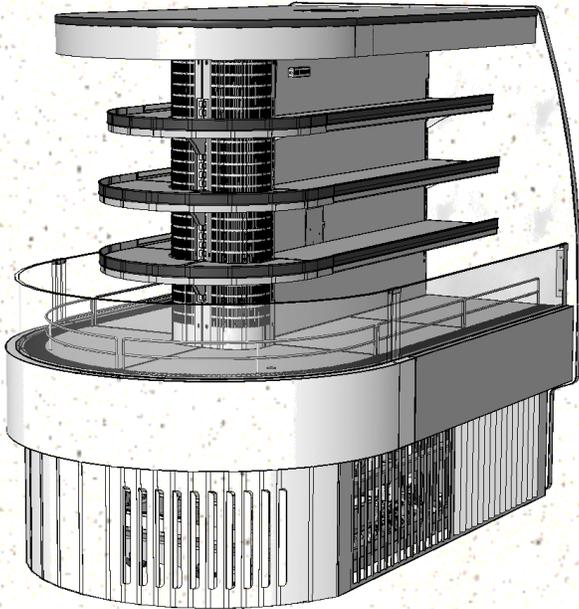


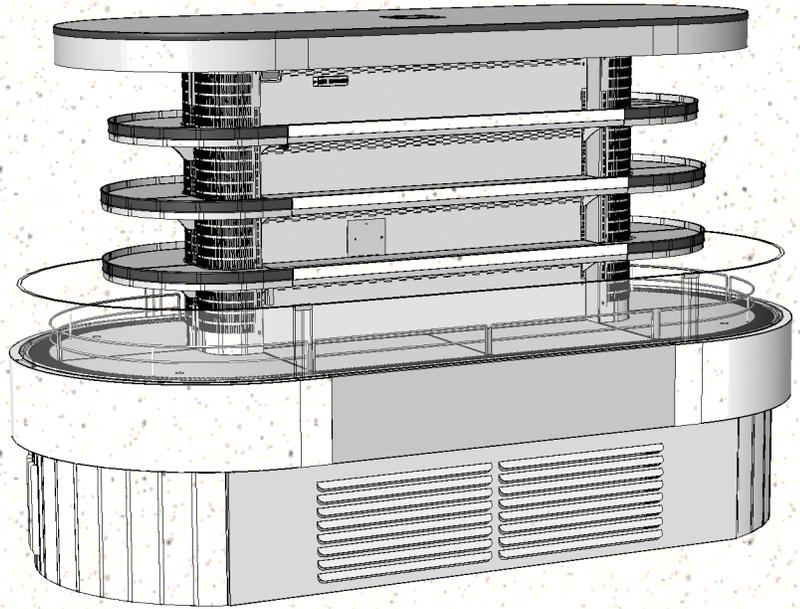
INSTALLATION & OPERATING MANUAL

SCC P/N
20-20438

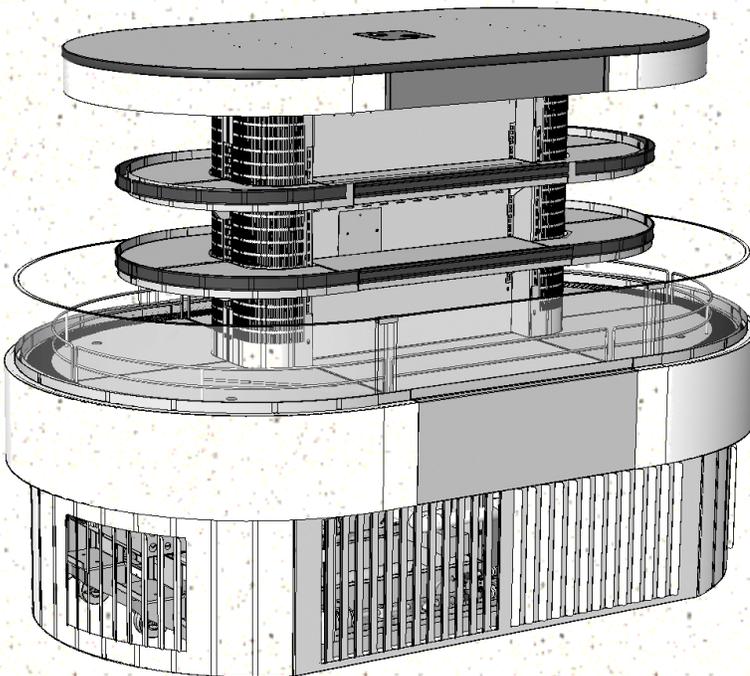
- > REFRIGERATED SELF-SERVICE ISLAND - CID MODELS FSI856R, FSI656R, FSI663R and FSI863R
- > REFRIGERATED SELF-SERVICE PENINSULA END CAP - CID MODEL FSE663R
- > **IMPORTANT: IF YOUR UNIT HAS AFTERMARKET PRODUCT BINS, SEE PAGE 17 OF MANUAL FOR PLACEMENT INSTRUCTIONS.**



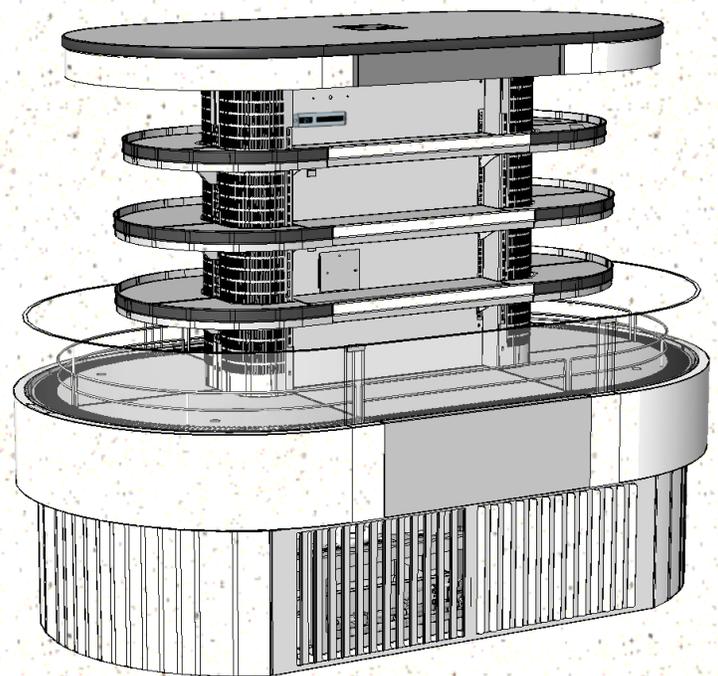
Model FSE663R



Model FSI863R



Model FSI656R



Model FSI663R



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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.

CID UNITS - TYPE 2 CONDITIONS

These units are designed for the display of products in ambient store conditions where temperatures and humidity are maintained within a specific range.

- These CID units are designed for Type 2 conditions.
- Type 2 conditions are ambient conditions of 55% maximum humidity and maximum temperatures of 80 °F (27 °C).

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

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.



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! 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.

PRECAUTIONS

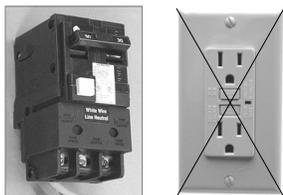
- This sheet contains important precautions to prevent damage to unit or merchandise.
- Please read carefully!
- See previous page for specifics on **OVERVIEW**, **CONDITION TYPE**, **COMPLIANCE** and **WARNINGS**.

WIRING DIAGRAM

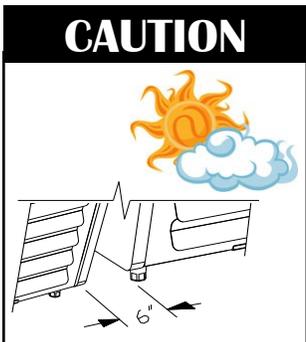
- Each case has its own wiring diagram folded and in its own packet.
- Wiring diagram placement may vary; it may be placed near ballast box, field wiring box, raceway cover, or other related location.



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

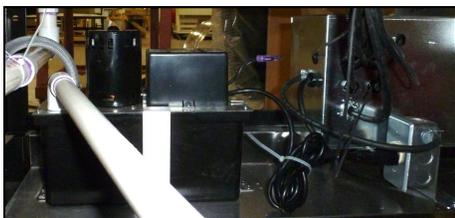


CAUTION! GFCI BREAKER USE REQUIREMENT
 If N.E.C. (National Electric Code) or your local code requires GFCI (Ground Fault Circuit Interrupter) protection, you **MUST** use a GFCI breaker in lieu of a GFCI receptacle.



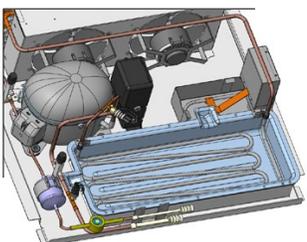
CAUTION! ADVERSE CONDITIONS / SPACING ISSUES

- Performance issues caused by adverse conditions are **NOT** warranted.
- End panels must be tightly joined or kept at least **6-inches** away from any structure to prevent condensation.
- Unit must be kept at least **15-feet** from exterior doors, overhead HVAC vents or any air curtain disruption to maintain proper temperatures.
- Unit must not be exposed to direct sunlight or any heat source.
- Self-Contained Unit Clearance: **4" min. air intake / 4" min. air discharge.**



CAUTION! CHECK CONDENSATE PUMP CONNECTIONS
 Water on flooring can cause extensive damage!
 Carefully check the following before powering up case:

- Condensate pump must be plugged into receptacle.
- Condensate lines must be connected to condensate pump.



CAUTION! CHECK BOTH CONDENSATE PAN AND OVERFLOW PAN
 Water on floor can cause extensive damage! Before powering up unit:

- Condensate pan **MUST BE** positioned directly under condensate drain.
- Overflow pan **MUST HAVE** single plug connected to its box. Units with optional Clean Sweep™ **MUST HAVE** two plugs connected.



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

- Thermometers and thermostats reflect air temperatures **ONLY**.
- For **ACTUAL** food temperatures, use a calibrated food thermometer.

1. Shipping Bracket Purpose

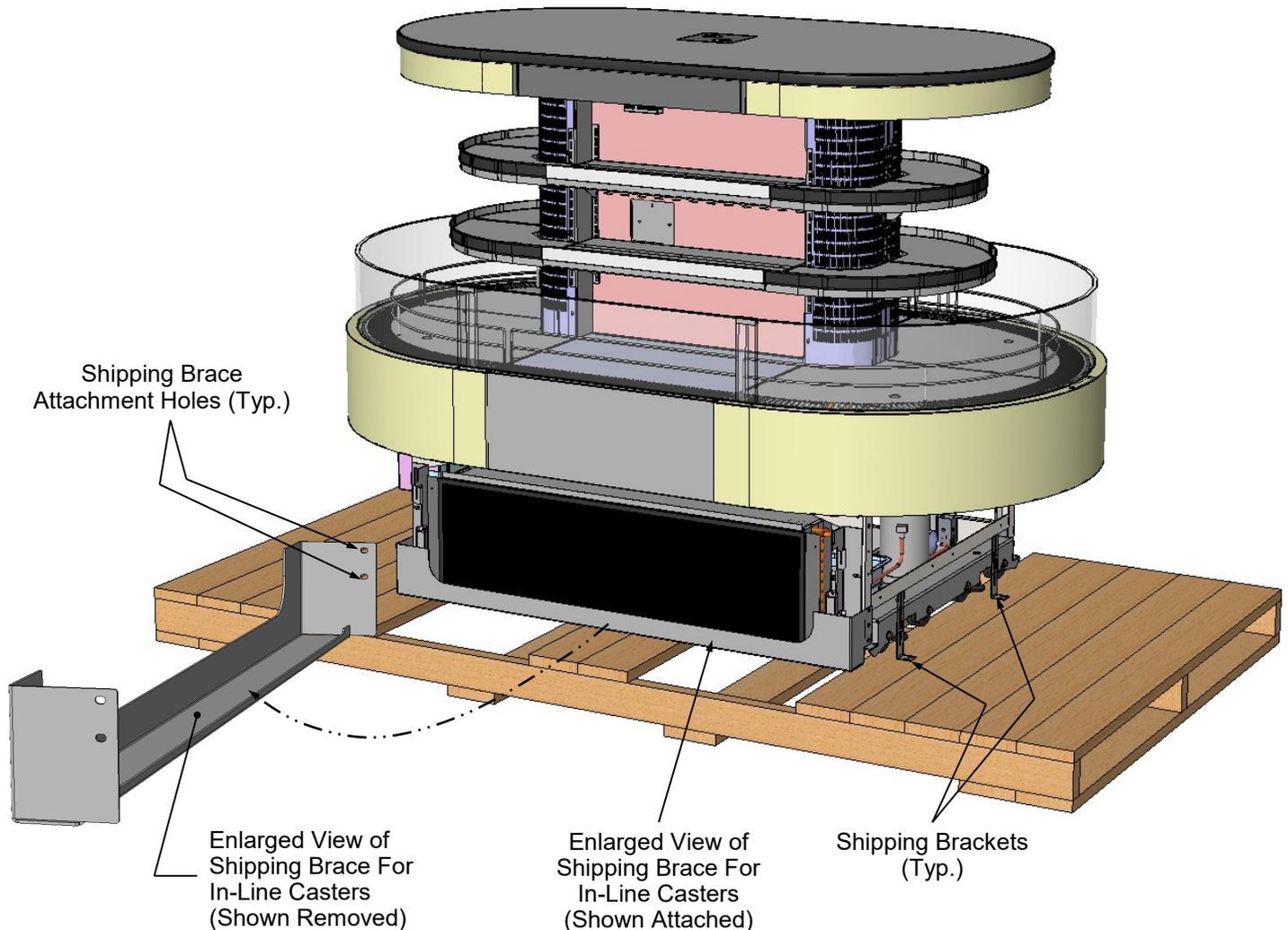
- Shipping brackets are designed to secure condenser package during shipment.
- See illustration below.

2. Shipping Bracket Removal and Disposal

- Shipping bracket is secured by two (2) screws at each end.
- Remove all four (4 screws) from bracket.
- Remove bracket from case.
- Either discard or recycle.
- See illustration below.

3. Shipping Brace For In-Line Casters

- A shipping brace is on the condenser coil side of case.
- It is to be removed AFTER the case is in position.
- Brace may be removed via four (4) screws. Discard/recycle after removal.
- A view of the brace is shown in “removed” position below for illustrative purposes only.



1. Note: Kick Panels Are NOT To Be On Case During Removal From Pallet!

- Kick panels can easily buckle or bend while removing from pallet.
- If kick panels are on case, remove by lifting up and off. No screw removal is required to remove kick panels.
- After unit is in position, kick panels are to be placed on case.

2. Remove Unit From Pallet

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

> Using Fork Lift

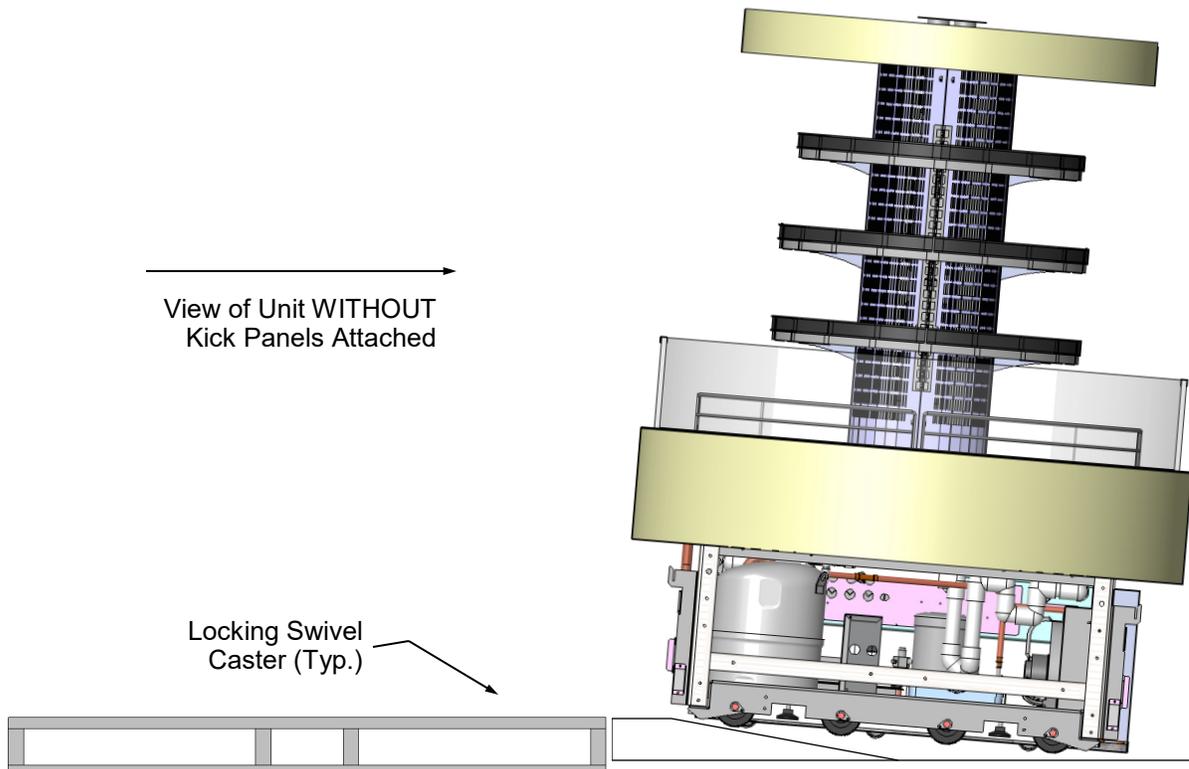
- To lift case up for lift-truck forks to slide into position, use J-Bar lift tab.
- Make certain case is well-supported on lift truck. Move into position.

> Using J-Bar or Dolly Only (No Fork Lift)

- Slide case to edge of pallet.
- With several people in position, carefully slide frame support rail to edge of pallet.
- With several people in position, slide case several more inches (off pallet) and lower rear frame support to floor.
- Once the rear frame support rail rests on the floor, have several people supporting front of case while pallet is slid out from under case.
- After case is off pallet, several employees may be required to slide into position.

4. Positioning Unit

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



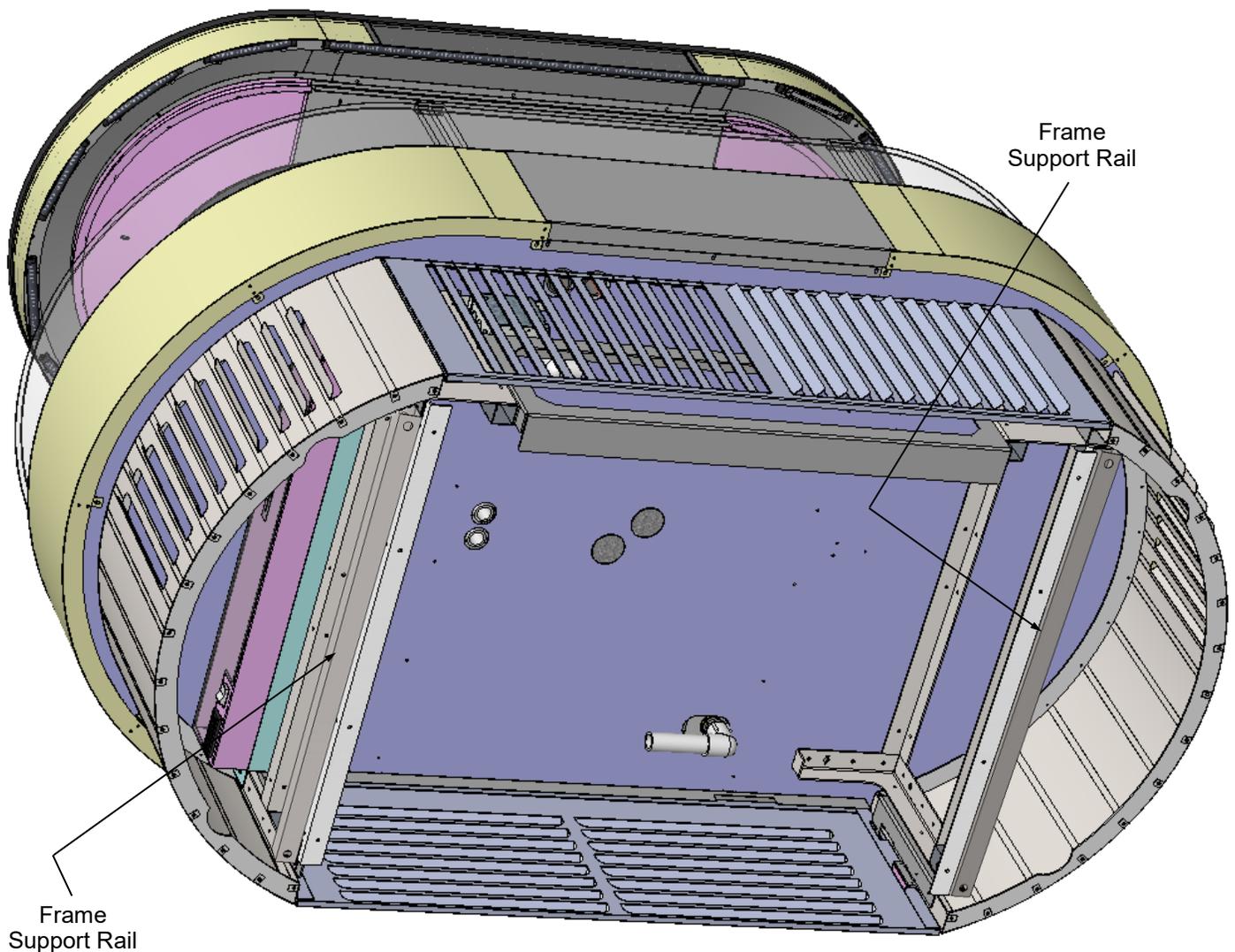
Important! Kick Panels Are NOT To Be On Case During Removal From Pallet!

REMOTE UNITS: LEVELING UNIT VIA FRAME SUPPORT RAILS AND SHIMS

The Following Pertains To Remote Units

Leveling Unit Via Frame Support Rails

- Case must be level to assure proper operation.
- Case will have frame support rails.
- Frame support rails will need to be shimmed to level the case.
- SCC P/N 27035 - A packet of (19) 3" x 3" stainless steel, 18 gauge shims will be wrapped and provided with cases with rails.
- After case has been properly shimmed, attach panels to case (case below is shown with panels for illustrative purposes only).



Model FSI656R Is Shown Above. It May Not Exactly Reflect Every Feature or Option of Your Particular Model.

SELF-CONTAINED UNITS: IN-LINE CASTER RAILS / "STOPS"

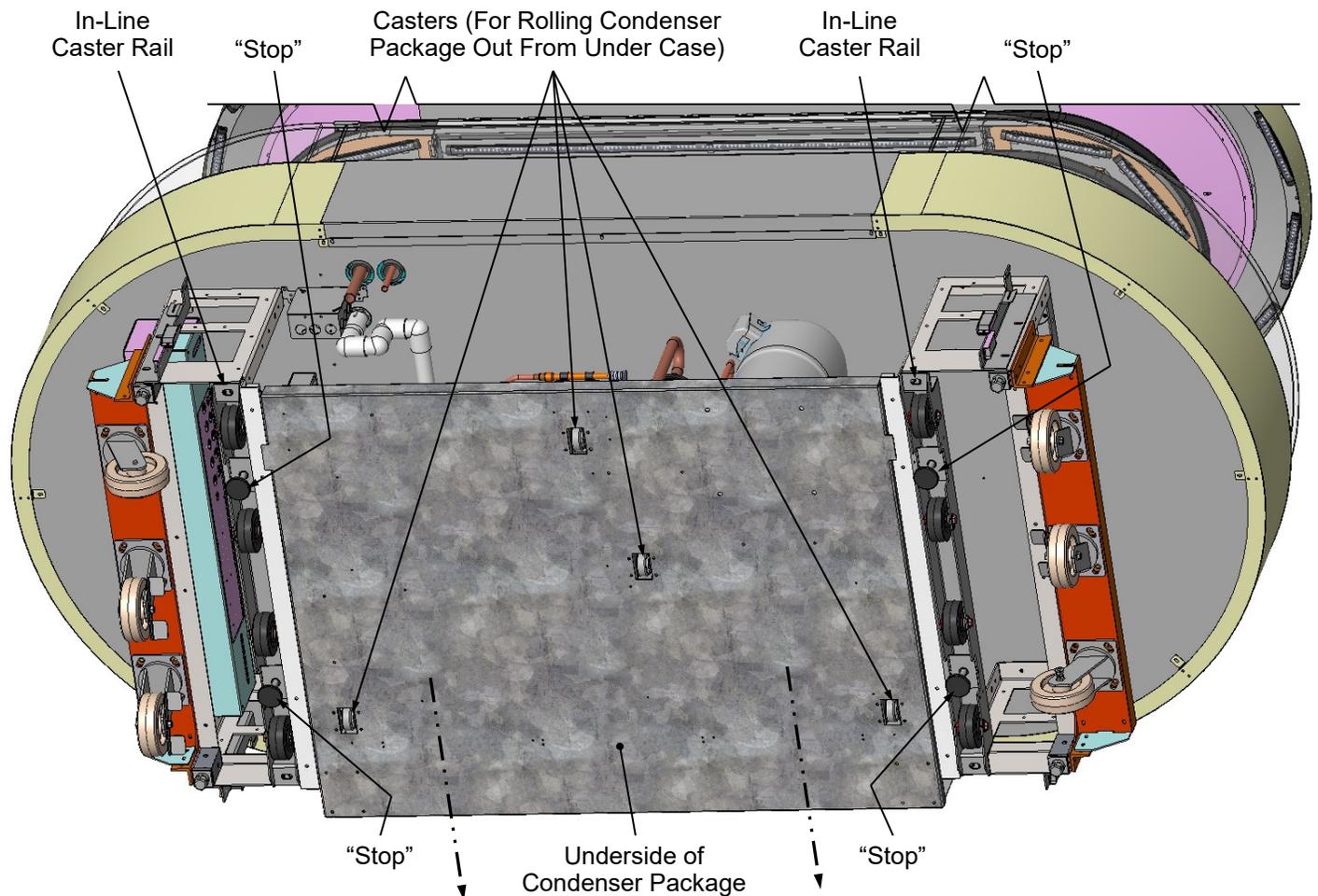
The Following Pertains To Self-Contained Units

1. In-Line Caster Rails

- In-line caster rail allows the case to be moved/rolled to different locations. Stops have been removed from case.
- All four (4) "Stops" are to be lowered to floor after case is in desired position.
- All four (4) "Stops" and levelers must be raised off floor for case to be moved/rolled into new position.
- Case must then be leveled (again) after moving unit to new location (see step #2).
- All four (4) "Stops" and levelers must then be lowered to floor again.

3. Casters (For Rolling Condenser Package Out From Under Case)

- Due to weight considerations, this unit's condenser package has its own casters to assist in its sliding out from under merchandiser.
- Case slides out at intake side of case.
- See illustration below.



Model FSI863R Is Shown Above. It May Not Exactly Reflect Every Feature or Option of Your Particular Model.

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.

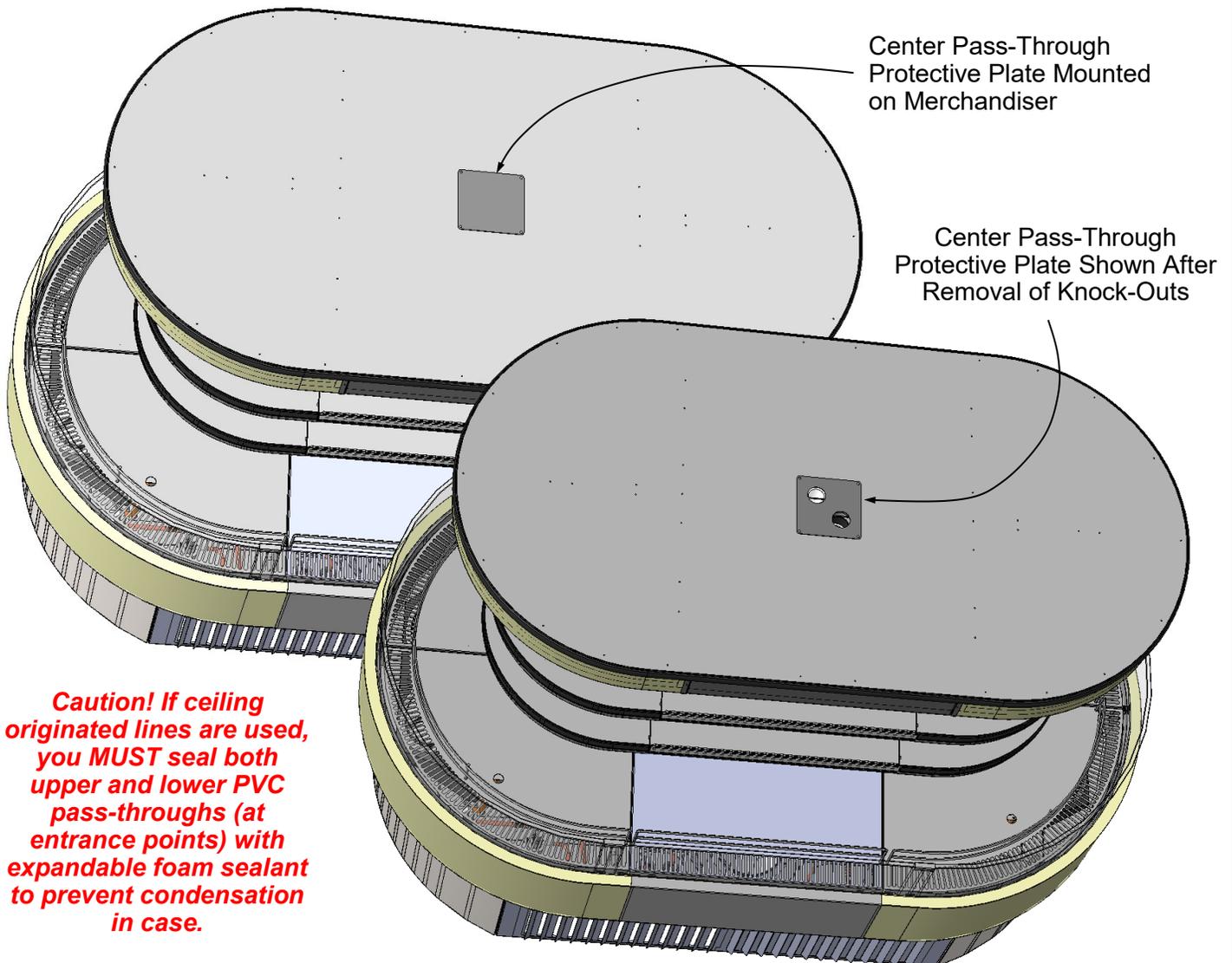
- **Caution! If ceiling originated lines are used, you MUST seal both upper and lower PVC pass-throughs (at entrance points) with expandable foam sealant to prevent condensation in case.**

3. Plate Removal

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

4. Case Underside

- Depending upon your model, see either **REFRIGERATION FUNDAMENTALS: REMOTE DRAIN LAYOUT** or **REFRIGERATION FUNDAMENTALS: SELF-CONTAINED DRAIN LAYOUT** section in this manual for location of center pass-throughs at underside of case.



REMOTE CASES: REFRIGERATION LINE FIELD CONNECTION

1. Refrigeration Line Field Connection

- **Warning! Turn power off and/or disconnect power before providing maintenance and service to unit.**
- **Assembly/disassembly/servicing is to be performed by licensed refrigeration contractor.**

2. Refrigeration Lines at Underside

- Underside refrigeration lines are standard.
- Refrigeration lines are ALWAYS at rear of case.
- See photograph immediately below for illustration.

Field-Connect
Refrigeration Lines Are Through
Underside PVC Tubes



--- View of Remote Case With Underside Refrigeration Lines ---

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

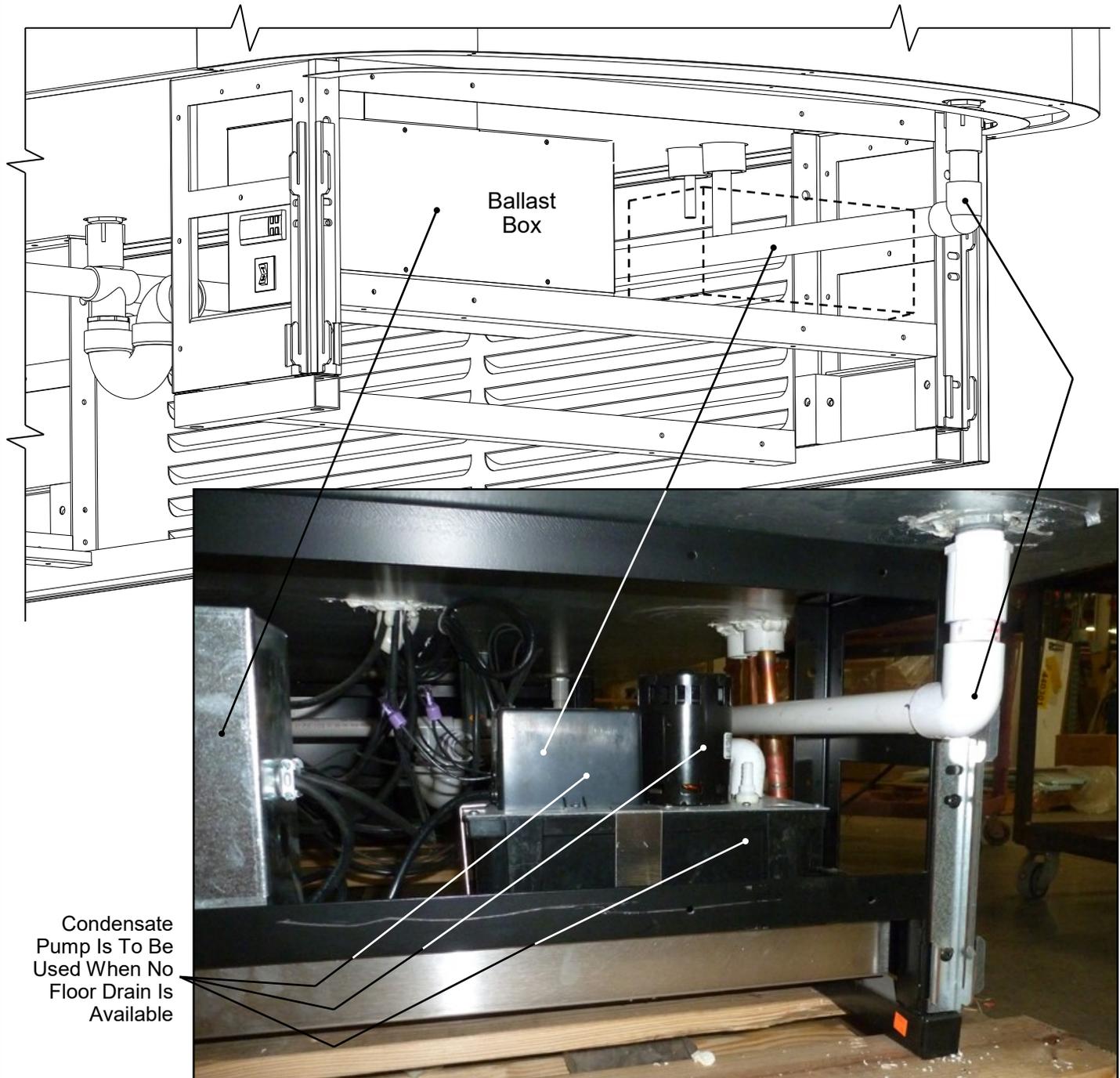
REMOTE CASES: CONDENSATE PUMP LOCATION AND PURPOSE

1. Condensate Pump Location

- **Warning! Turn power off and/or disconnect power before providing maintenance and service to unit.**
- **Assembly/disassembly/servicing to be performed by licensed refrigeration contractor.**
- **Condensate pump is located just behind ballast box (as shown in illustration below).**

2. Condensate Pump Purpose

- Condensate pump is to be used when no floor drain is available.
- Condensate pump transfers condensation from lower section of case through top of case and out.



1. Field Wiring Box / Data Collection 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 switch.
- Data is collected from thermostat controller and transmitted to designated collector.
- See illustration below.

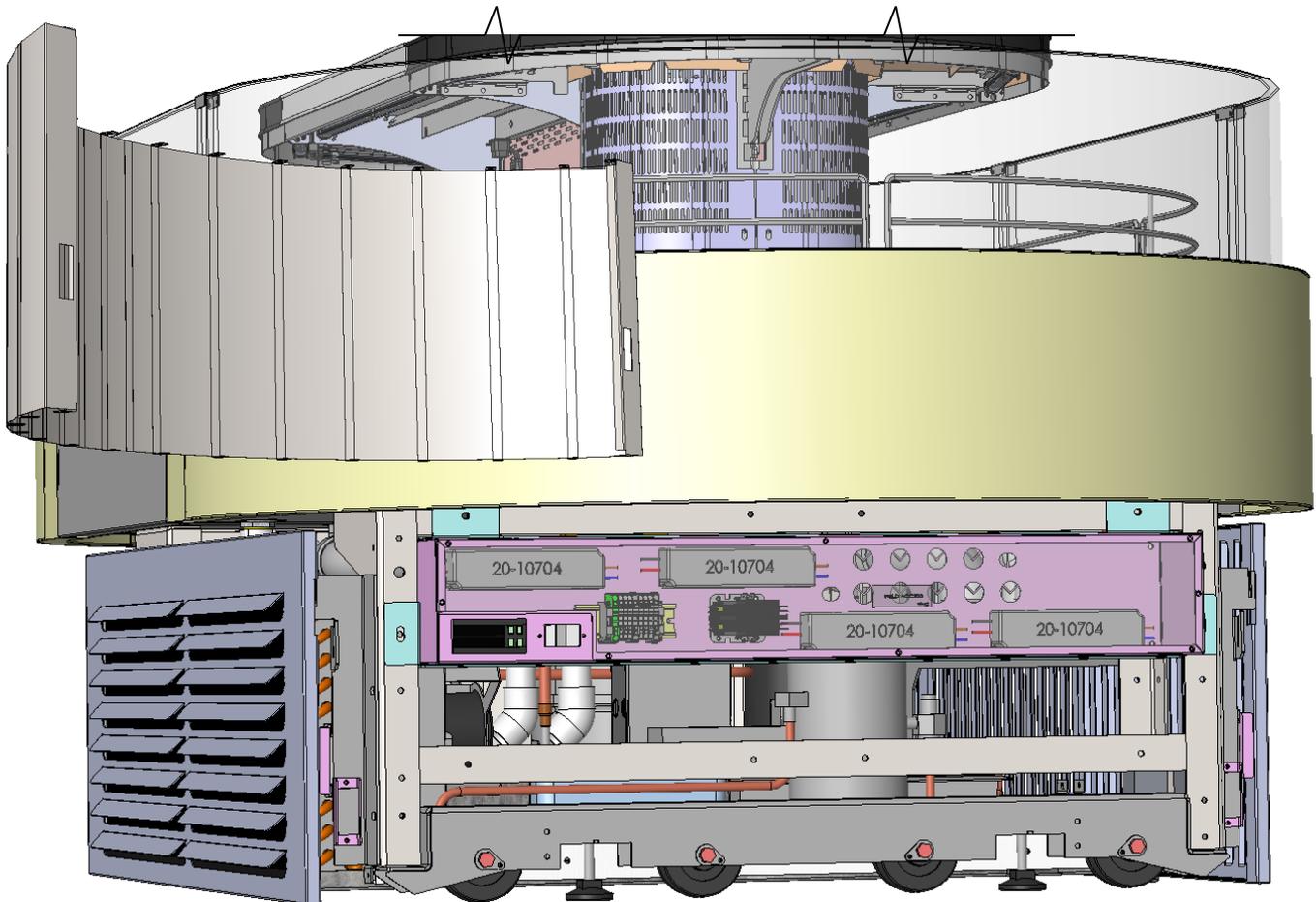
2. End Panel Removal

- To remove panel (and access field wiring box), lift panel up and off case hooks by grasping firmly and pulling up and outward (and separating from retaining magnets).

3. Self-Contained Cases Only: Main Power Switch

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

Note: Illustration Reflects Self-Contained Model. Component Layout Differs From Remote Units And May Not Exactly Reflect Every Feature or Option of Your Particular Case

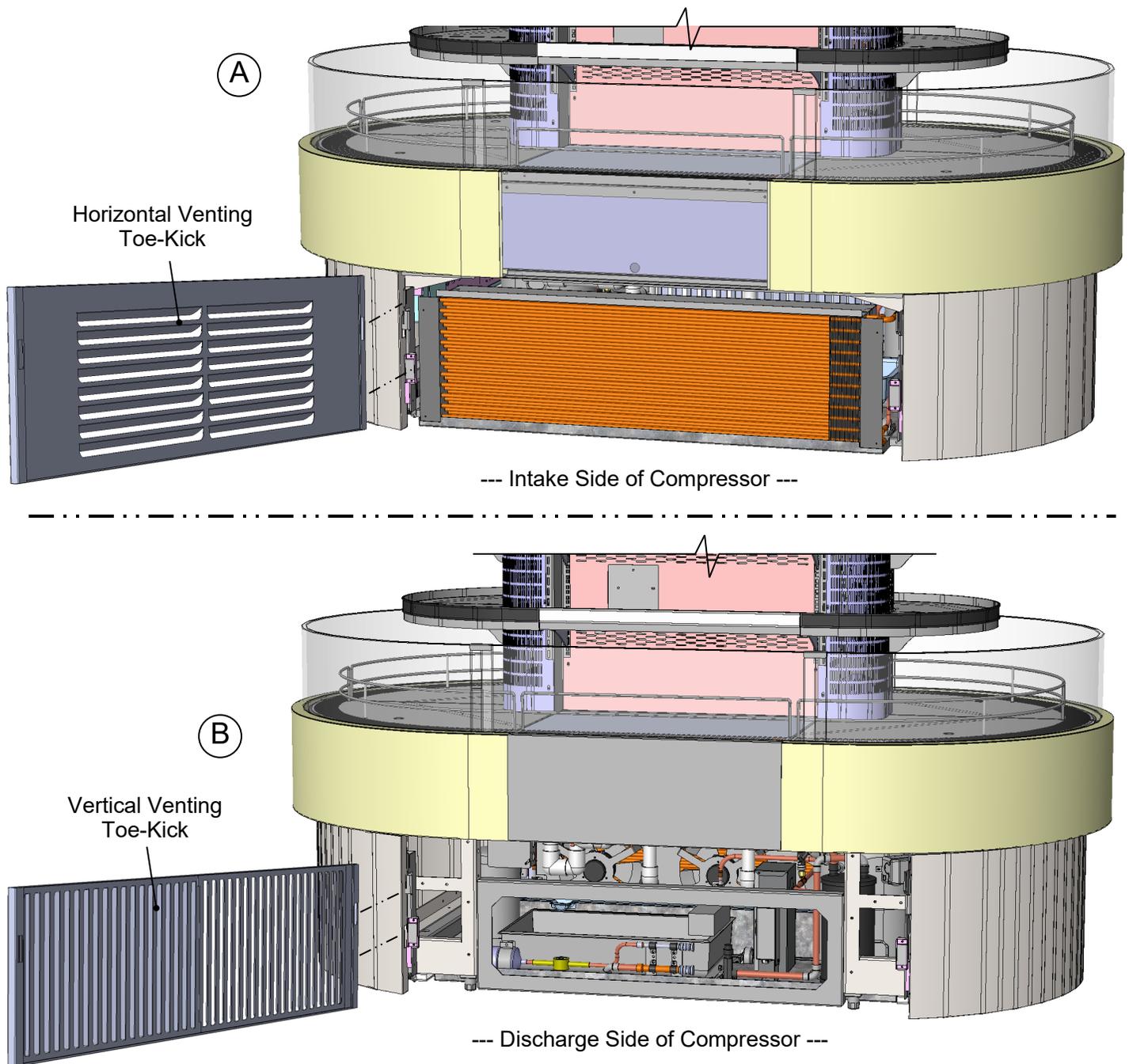


SELF-CONTAINED UNITS: TOE-KICK ATTACHMENT INSTRUCTIONS (HORIZONTAL vs. VERTICAL)

Self-Contained Units: Toe-Kick Attachment Instructions

- Toe-kick venting designs vary depending upon whether it is located at intake or discharge side of case.
- Proper airflow will be maintained by following these instructions:
 - A. Horizontally vented toe-kick must be attached to intake side of compressor (as shown in item "A").
 - B. Vertically vented toe-kick must be attached to the discharge side of compressor (as shown in item "B").

Note: Illustrations Shown May Not Exactly Reflect Every Feature or Option of Your Particular Case



Plan-O-Gram (Load Level Guidelines)

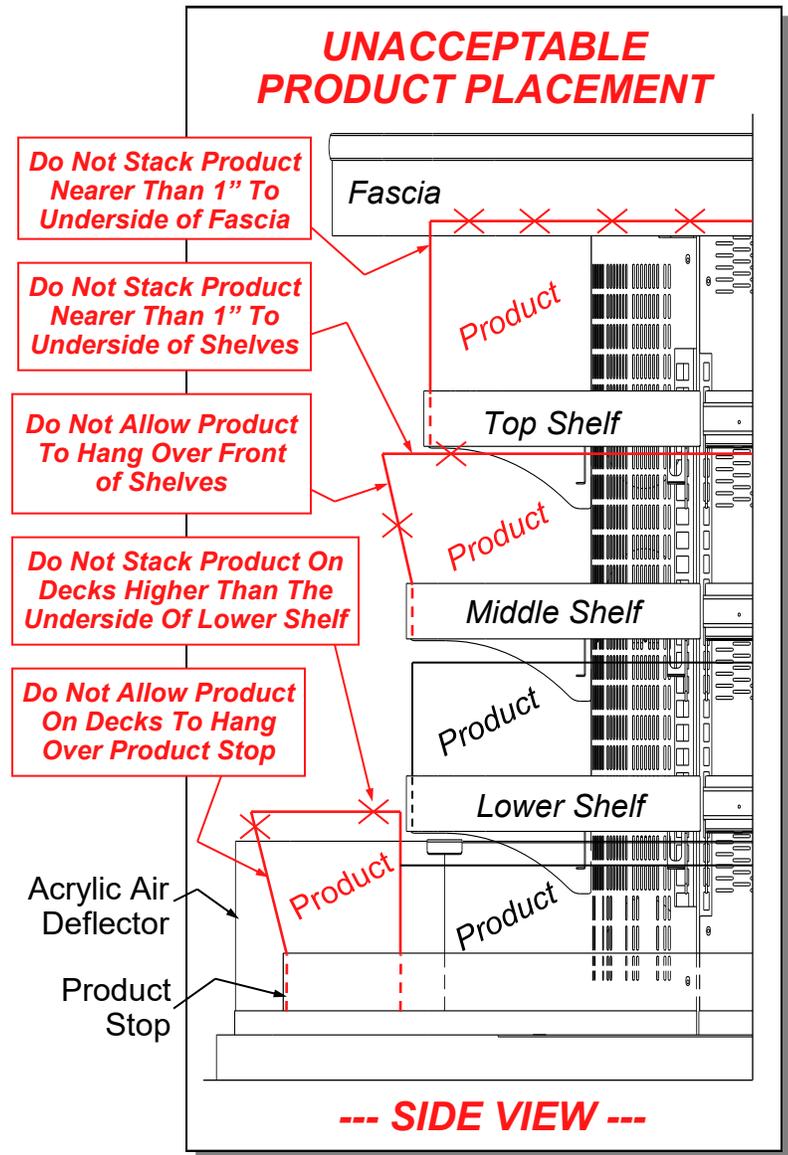
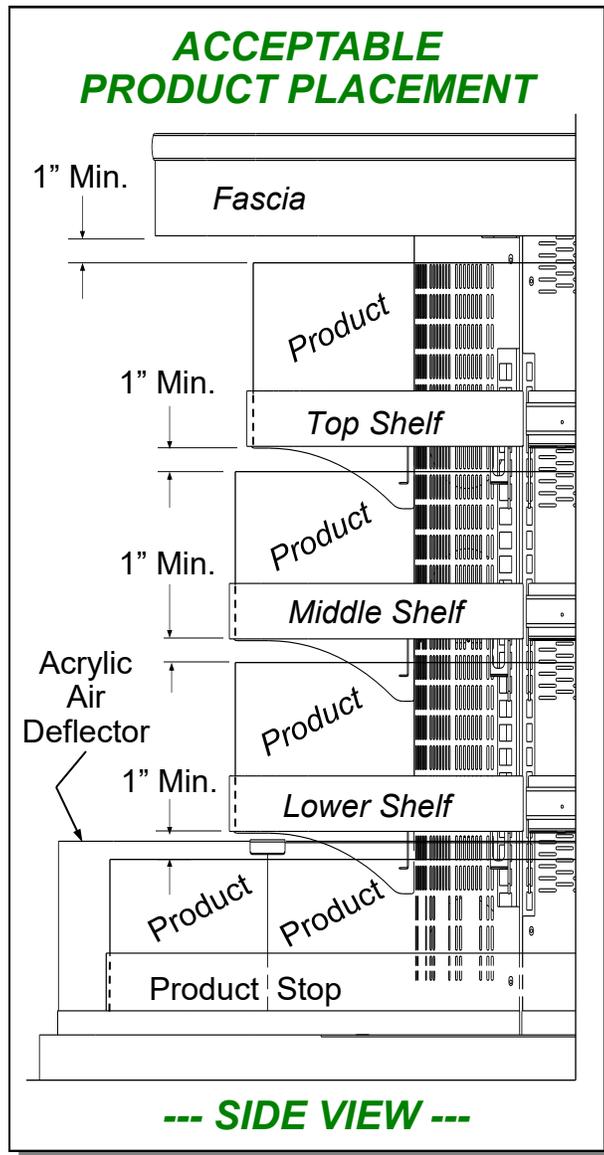
> **Note:** Any changes to this sheet must also be made to SCC P/N 20-24592

CAUTION! TO MAINTAIN SAFE PRODUCT TEMPERATURES & AIRFLOW:

- ◆ DO NOT STACK PRODUCT NEARER THAN 1" TO UNDERSIDE OF FASCIA
- ◆ 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

RESTRICTED FOOD PRODUCTS

- ◆ SALADS (GARDEN, CHEF, CHICKEN, BLT, ETC.): PLACE ON SIDE DECKS ONLY
- ◆ CHEESE STICKS: PLACE ON SIDE DECKS OR END CAP DECKS

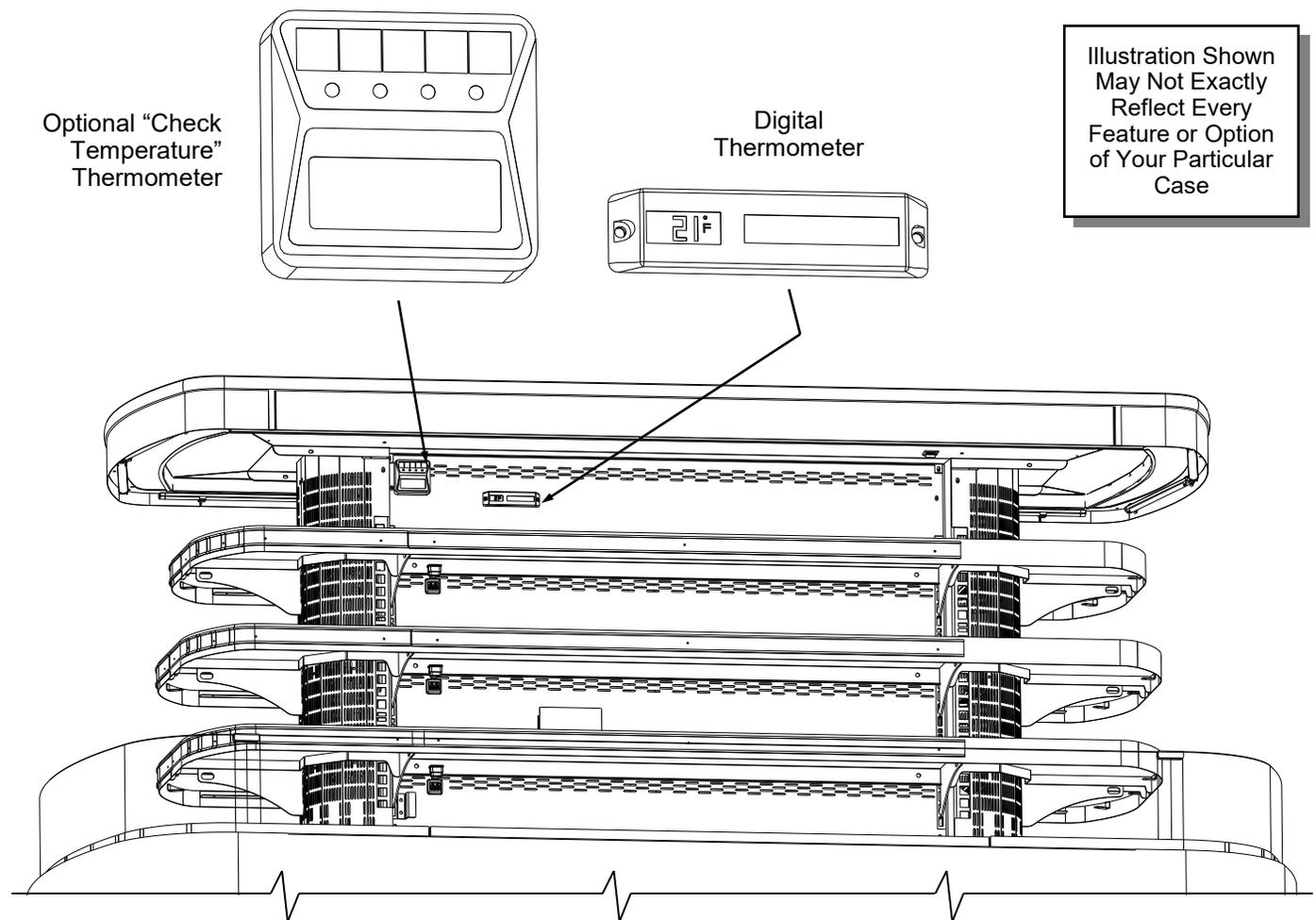


THERMOMETERS (DIGITAL THERMOMETER & OPTIONAL "CHECK TEMPERATURE")

Thermometers

Thermometers are located on rear plenum at upper area of case.

- Digital thermometer is on ALL merchandisers.
- The "Check Temperature" thermometer is optional.
- See illustrations below.



POWER-UP CHECK (EVAPORATOR FAN AREA)

Power-Up Check **(Evaporator Fan Area)**

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

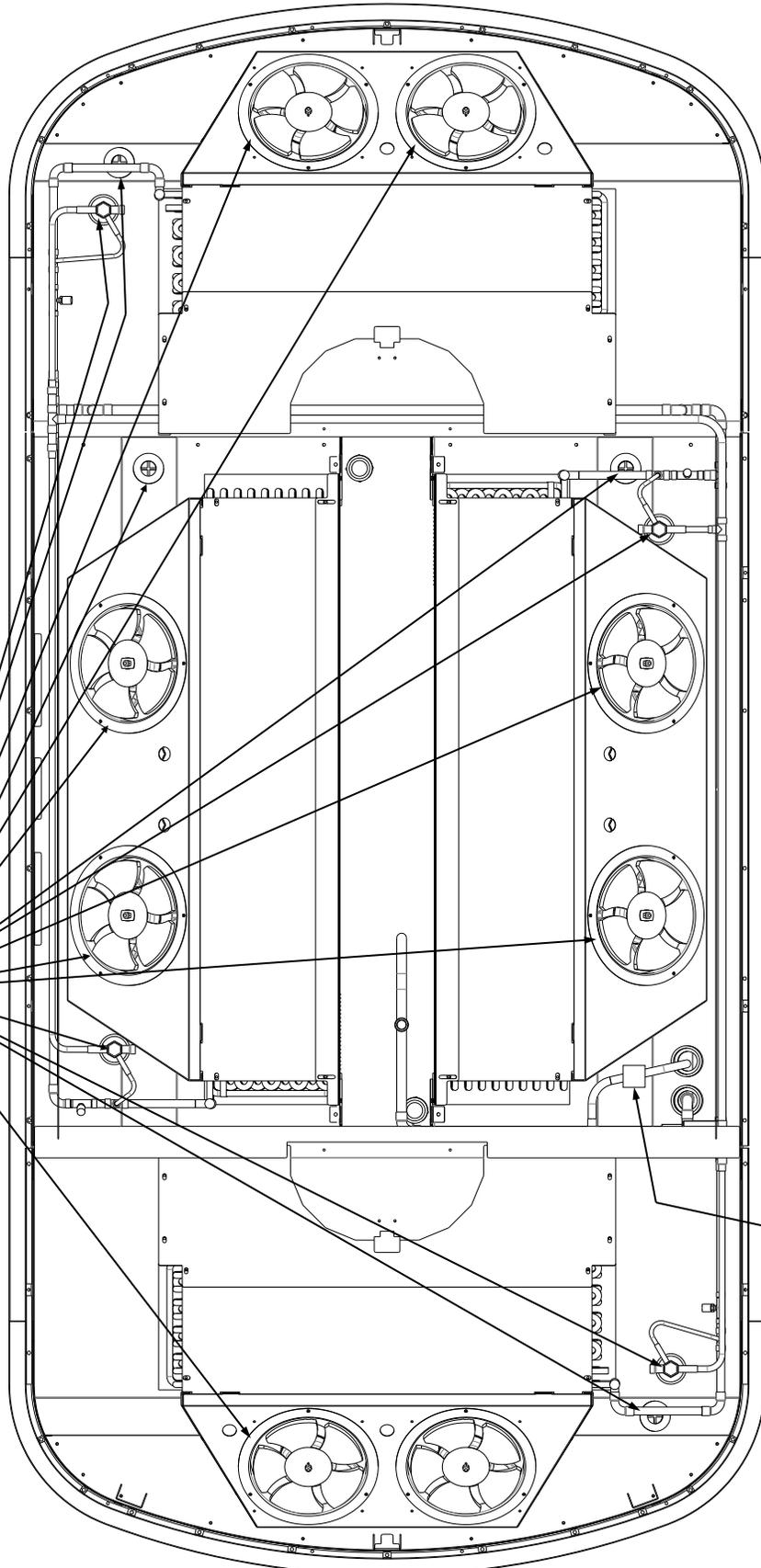
- To verify fans are operational, lift up deck pans; check to see that the coil fans are all functioning properly.
- Solenoid (location shown on illustration) may be on remote cases ONLY).

View of Evaporator
Coil Fans, TXV and
Drains After Decks and
Upper Canopy Have
Been Removed.

Front of Case
(Temperature
Controller Side)

Solenoid
(May Be
On
Remote
Cases
Only)

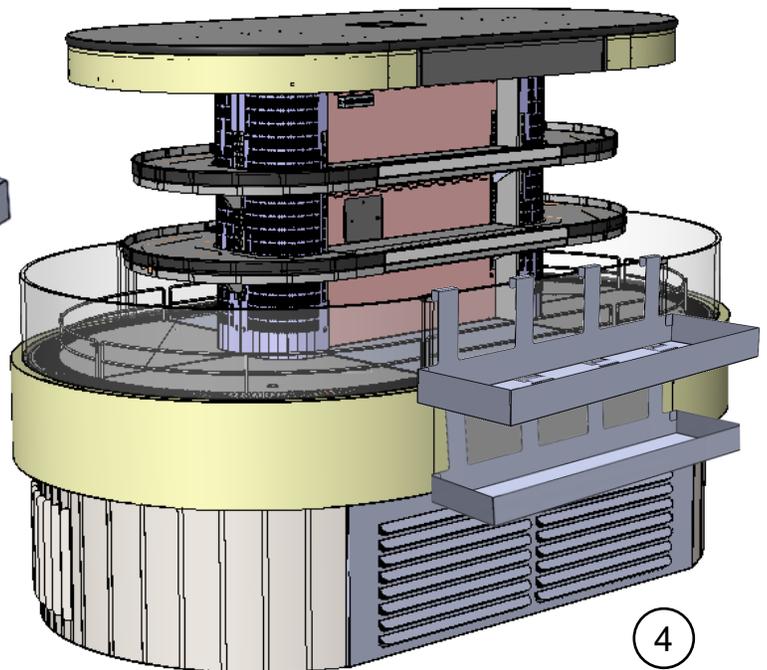
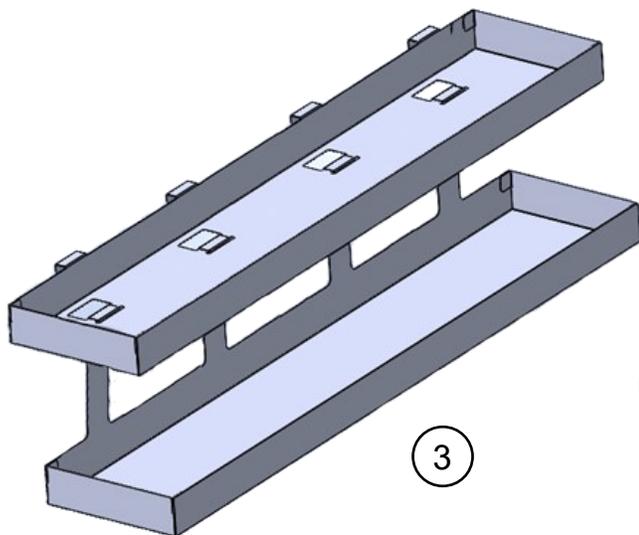
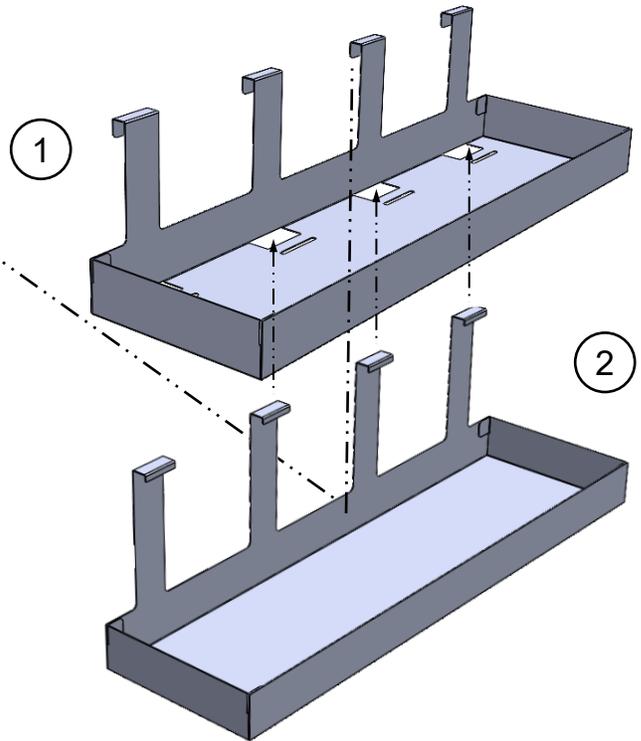
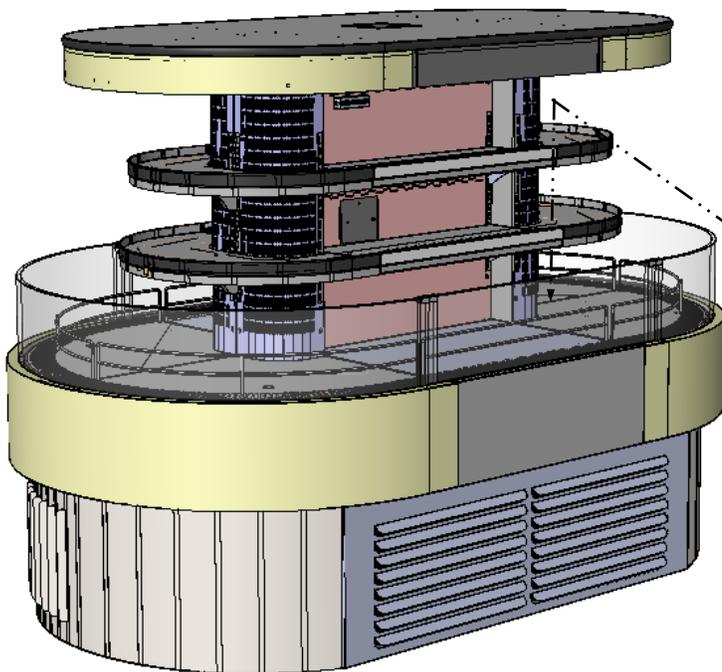
Illustration Shown May
Not Exactly Reflect
Every Feature or Option
of Your Particular Case.



Aftermarket Product Bin - Placement

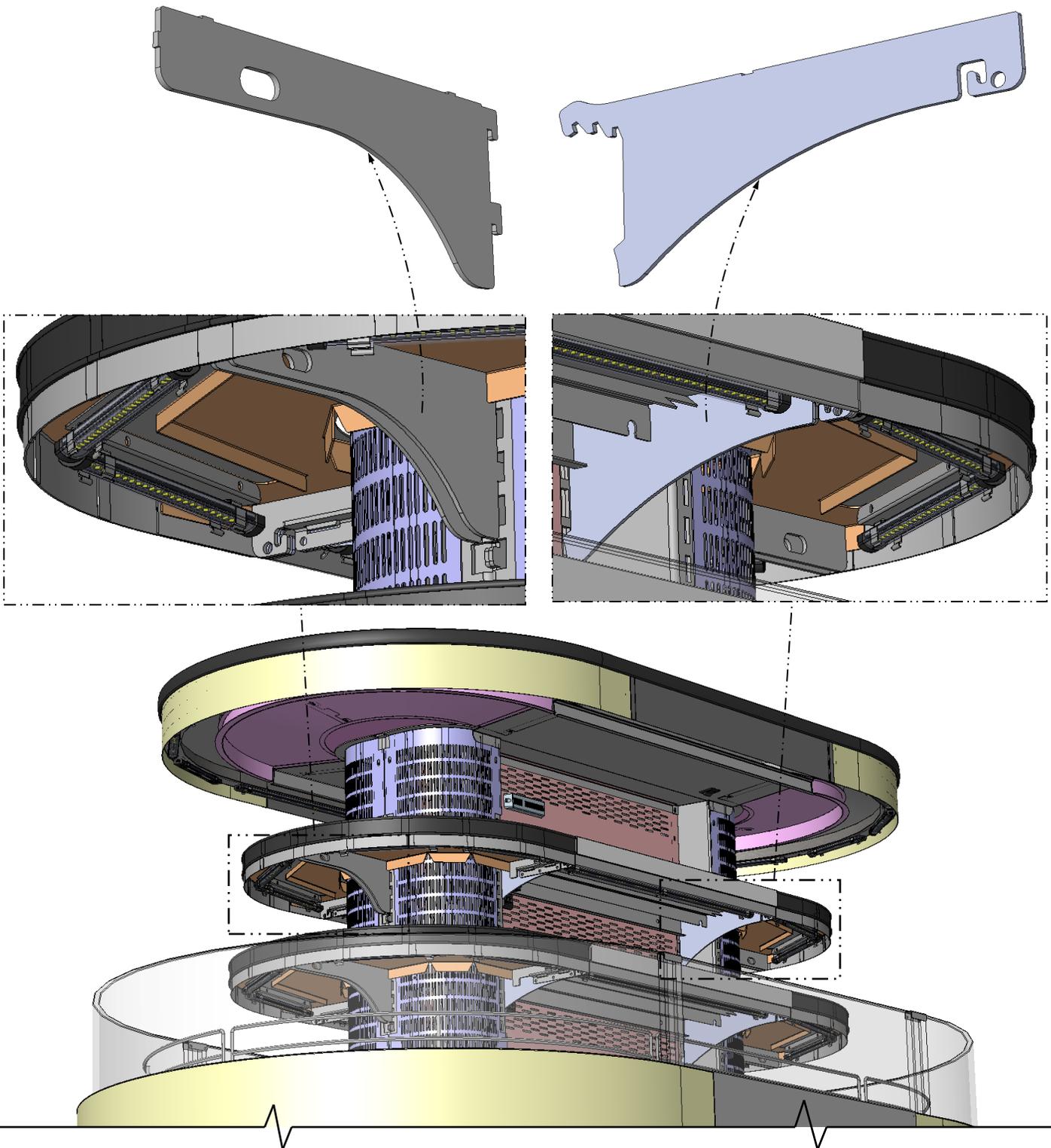
- ModelFSI656R (Shown Below) May Not Reflect Every Feature Or Option Of Your Particular Case.
- Product bin is for placing bagged product such as potato chips, pretzels, crackers, etc.
- Product bin is made of stainless steel.
- Remove product bin (to clean or replace).

1. Upper product bin is to hang on acrylic shield at front of case.
2. Lower product bin prongs are to be inserted into upper bin's cutouts (in base) and hang securely.
3. View of assembled upper and lower product bins.
4. View of assembled upper and lower product bins after being attached to case's acrylic shield at front of case.



1. Shelf & Bracket Assembly Removal

- Shelving is fixed; it is not adjustable.
- Screws must be removed to remove shelves.
- See illustrations below.



LED Style Light Fixtures

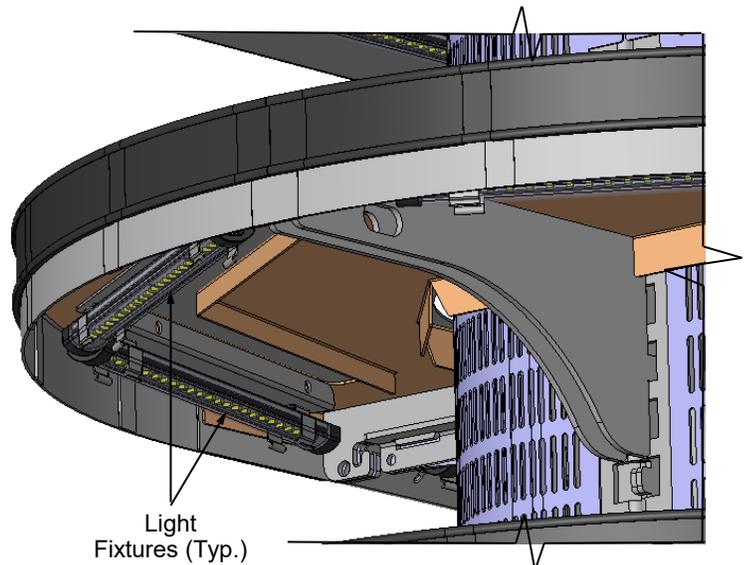
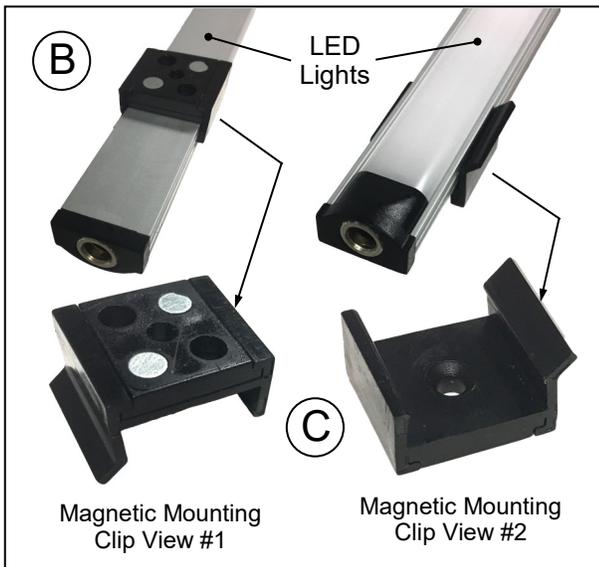
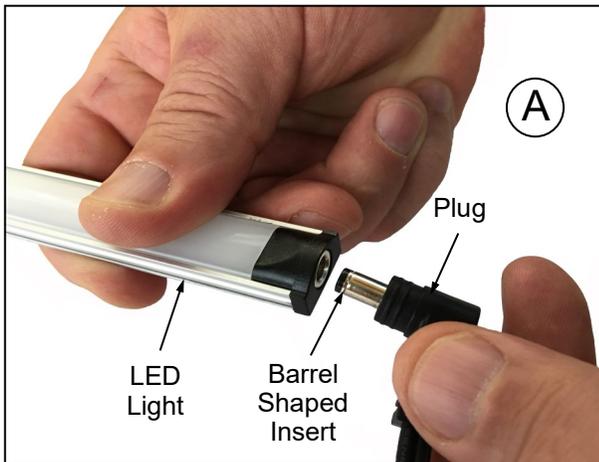
Removal of Faulty LED Lights:

- LED lights rarely require change-out.
- Contact Structural Concepts' Technical Service Department for replacement LED lights.
- Turn off LED light switch.
- To remove faulty LED light, follow these steps:
 - A. Disconnect plug from LED light.
 - B. Using both hands, grasp LED light assembly (with its magnetic mounting clips). Pull downward and off its shelf (or header).
 - C. Remove magnetic mounting clips from LED light by pressing against flange part of clip with thumb.

>> Note: Mounting clips MAY be riveted to shelf or header. In such instances, simply remove LED light from mounting clips by pressing against flange part of clips with thumb.

Replacement of LED lights:

- Attach magnetic mounting clips onto LED light.
 - Adjust magnetic mounting clips so they are equally spaced on LED light.
 - Reattach LED light assembly to its shelf/header.
 - Position properly in shelf/header.
- >> Note: If mounting clips are riveted to shelf (or header), attach by placing LED in base of clip and then snapping into clip at FLANGE SIDE.
- Press plug's barrel-shaped insert all the way into LED light.
 - Important: If plug is not inserted ALL THE WAY IN the LED light's orifice, the light may not energize. See "**BAD**" vs. "**GOOD**" insertion illustrations below-right.
 - Turn LED light switch back on.



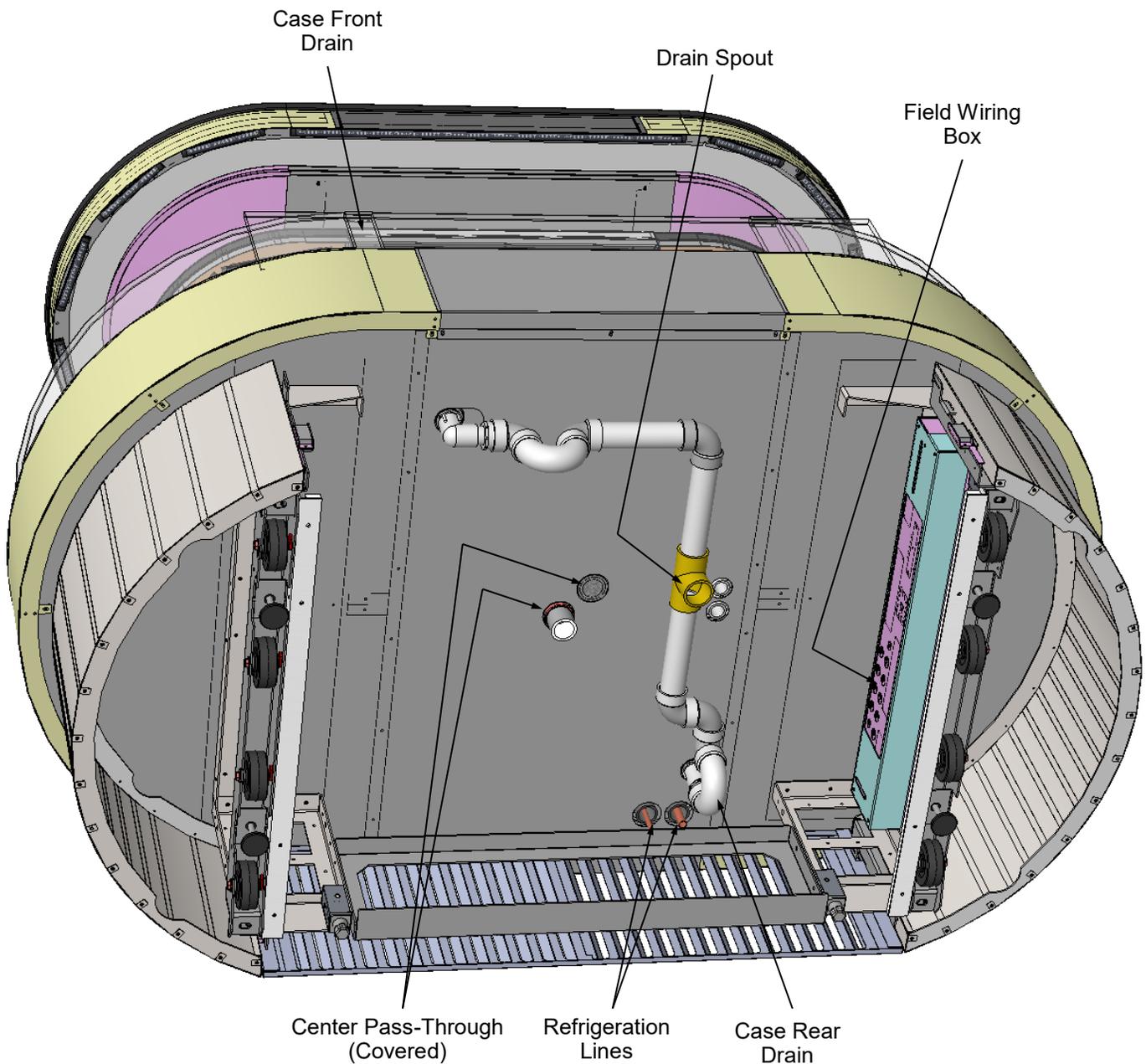
--- Random Model Shown Above For Illustrative Purpose Only ---



RERIGERATION FUNDAMENTALS: REMOTE DRAIN LAYOUT

Remote Unit Refrigeration Line Access, Connections & Servicing To Be Accomplished By Licensed Contractors Only

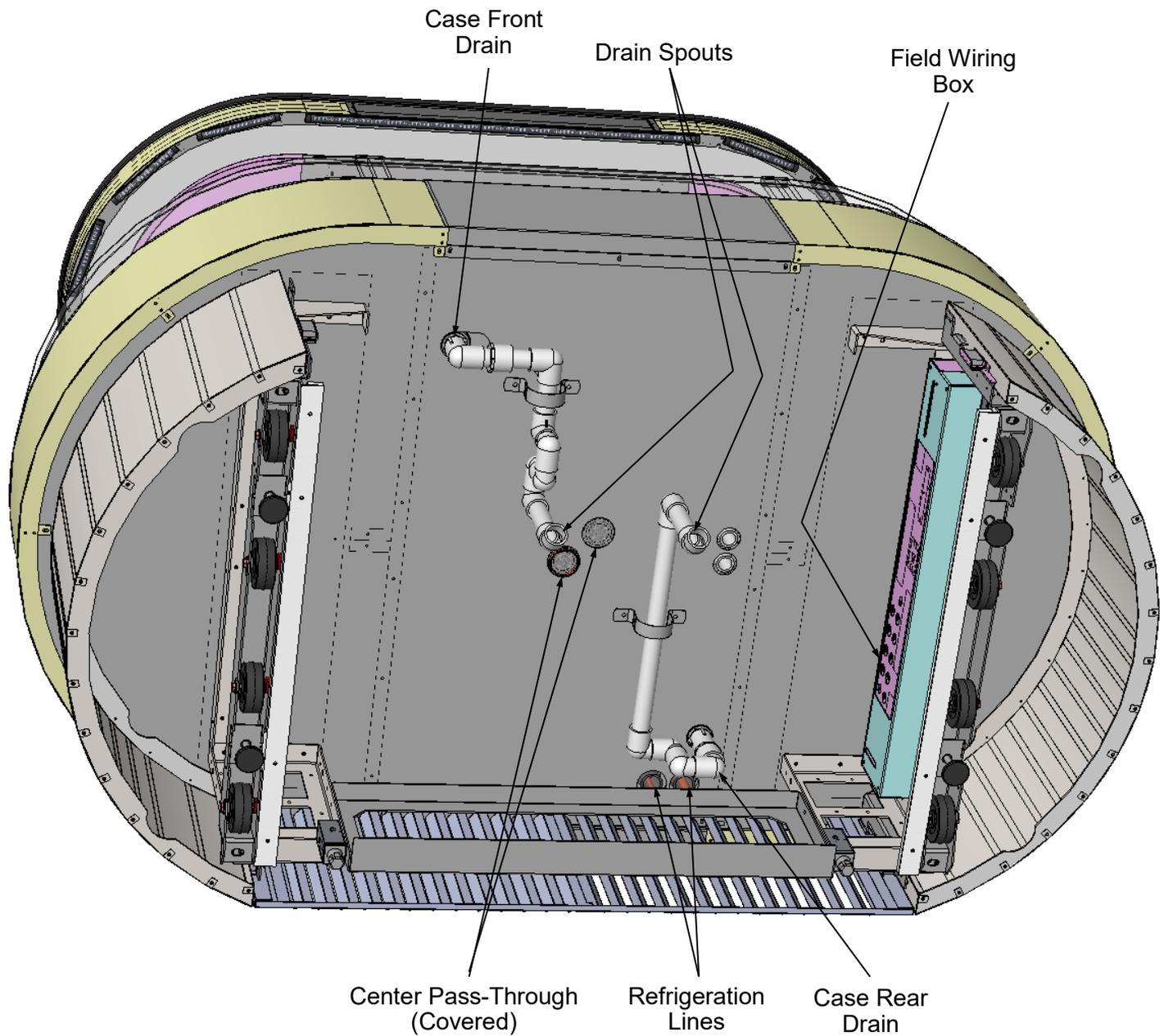
- Illustration below shows location of refrigeration lines for remote connection.
- Two (2) drains accessible from top of unit by lifting up decking.
- See **POWER-UP CHECK (EVAPORATOR FAN AREA)** section in this manual for under decking drain illustration.



REFRIGERATION FUNDAMENTALS: SELF-CONTAINED DRAIN LAYOUT

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

- Illustration below shows location of refrigeration lines for self-contained operation.
- Four (4) 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.



REFRIGERATION FUNDAMENTALS: CONDENSATE PACKAGE ACCESS

Self-Contained Units: Access to Condensate Package

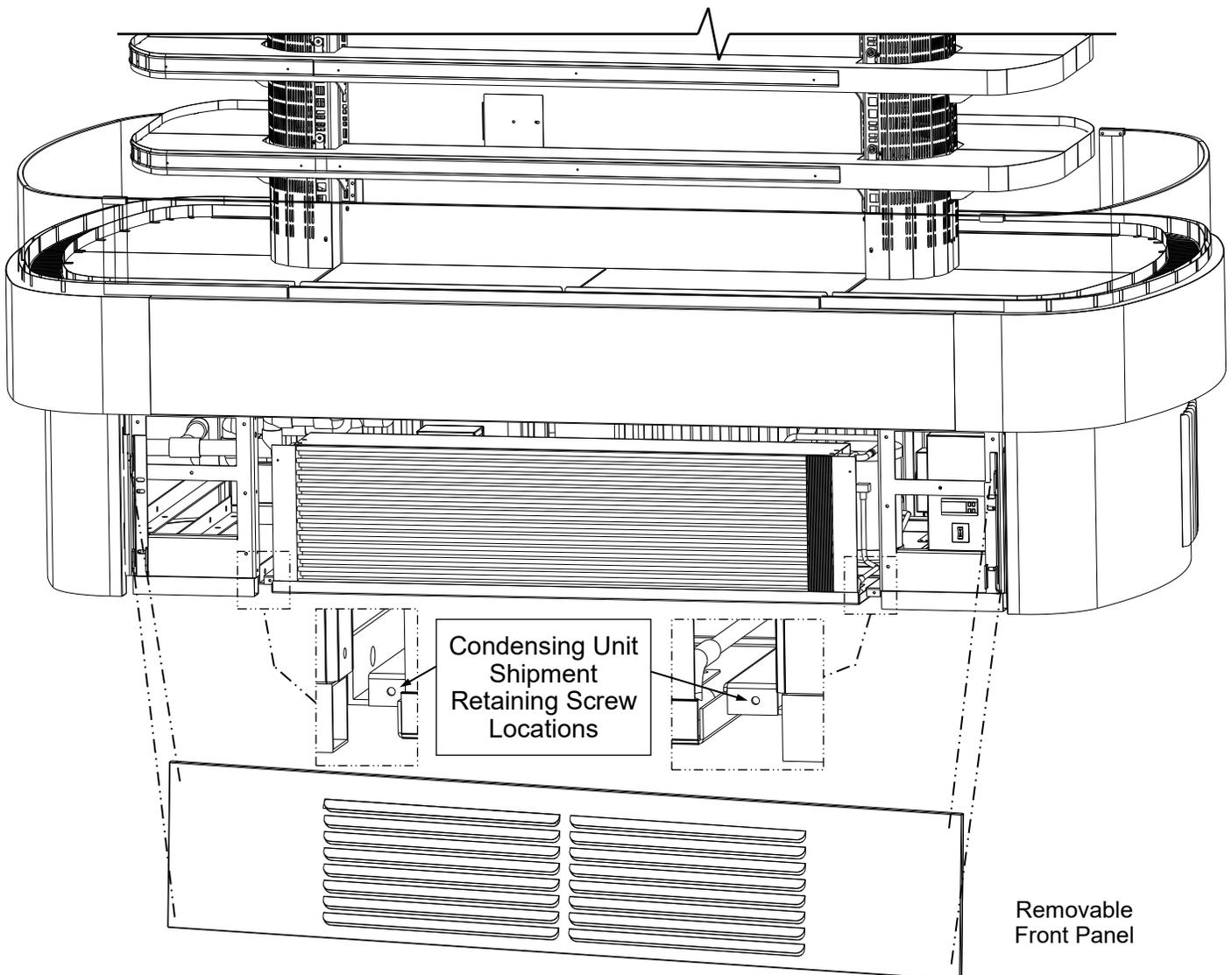
Assembly/disassembly and servicing to be performed by licensed refrigeration contractor.

Access / Sliding Out Refrigeration Package

- Simply remove panel (no screws required) by lifting up and off.
- Slots at sides of panel will lift off hooks.
- Initial access may require removal of shipment retaining screws (to prevent condensing package from coming loose during transport).

- See illustration below for locations.
- Refrigerant lines are flexible to facilitate condensate package being slid out from case.
- Plastic glides are mounted at base to assist in sliding the condenser out for access.
- Slide condenser unit out 12 to 18 inches to access high pressure service connection.
- Slide refrigeration package back under case after cleaning and/or servicing is complete.
- After servicing or cleaning, return panel to case. Turn case back on.

>> See next page for complete illustrated parts breakdown of condensate package after removal from underside of case.



REFRIGERATION FUNDAMENTALS: CONDENSATE PACKAGE ILLUSTRATED PARTS BREAKDOWN

Self-Contained Unit's Condensate Package Illustrated Parts Breakdown

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

Condensate Package Configuration

- Illustration shown is from model FSI863R. Your unit's component layout may slightly vary.
- Note: As shown in illustration below, condensate package may have wicking material for evaporation purposes.

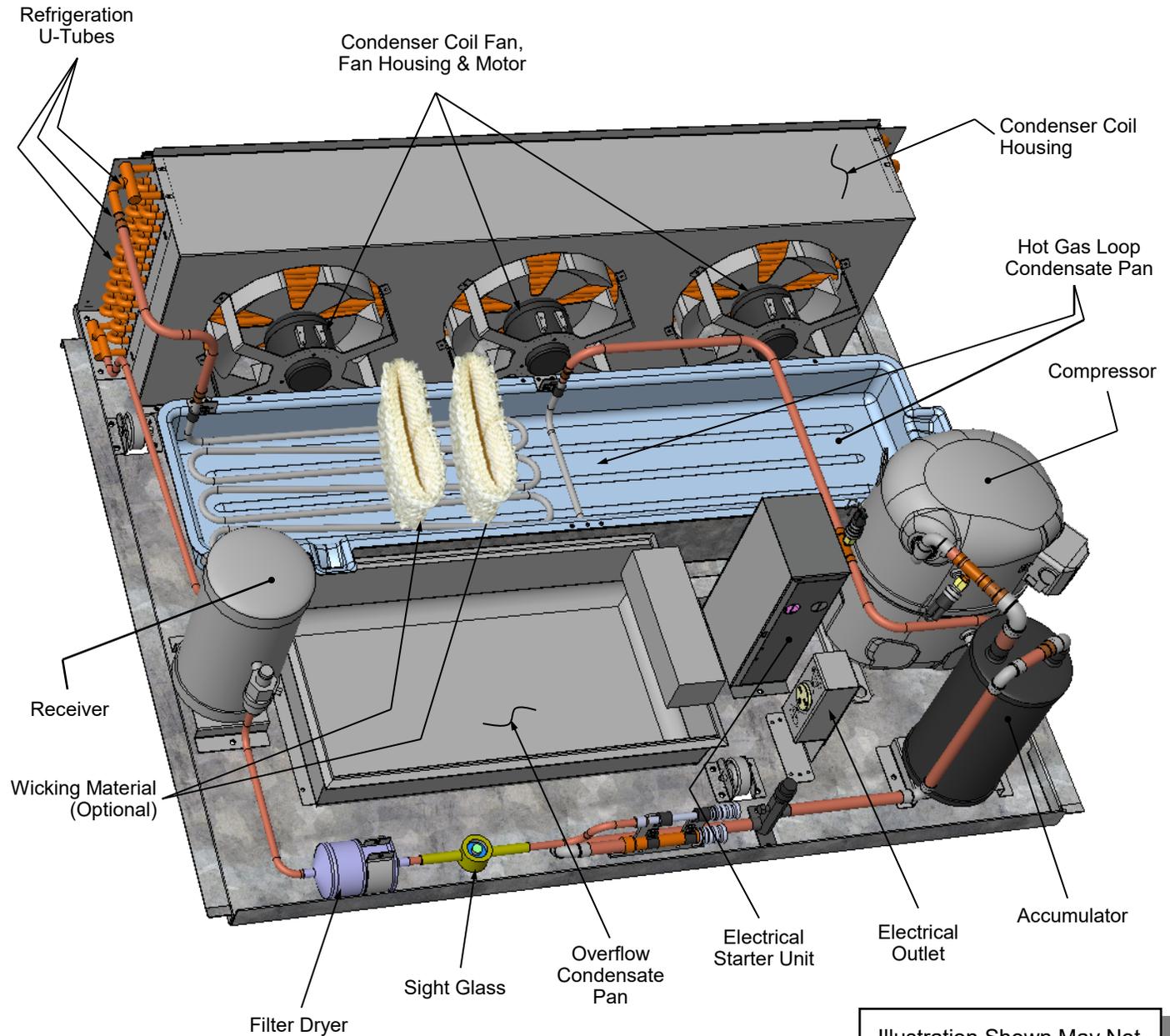


Illustration Shown May Not Exactly Reflect Every Feature or Option of Your Particular Model

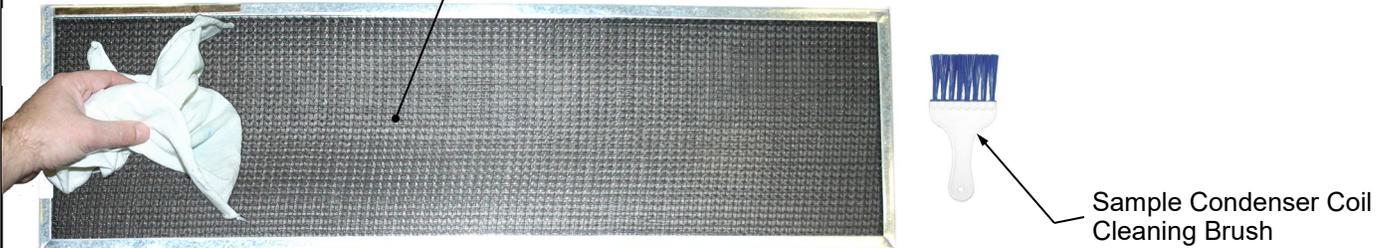
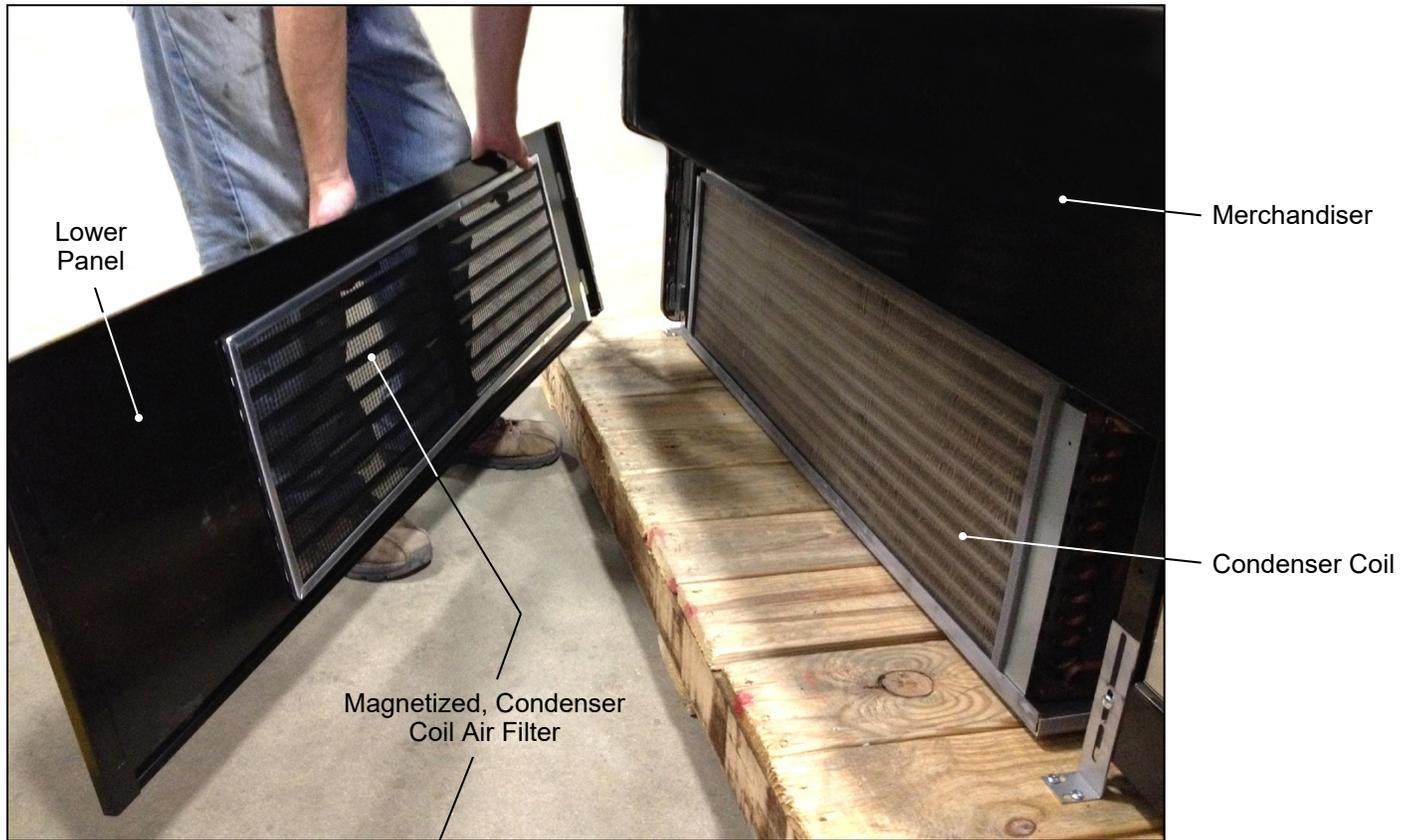
GENERAL CLEANING (TO BE PERFORMED BY STORE PERSONNEL)

FREQ.	AREA / INSTRUCTIONS
Daily	<p><u>Acrylic Air Deflectors (See Illustration Below):</u></p> <ul style="list-style-type: none"> • Use WASH spray bottle on air deflectors. Wipe off residue with paper towel. • Use RINSE spray bottle on air deflectors. Dry with paper towel.
Daily	<p><u>Stainless Steel Mirrors:</u> Use stainless steel cleaner or glass cleaner on surface to remove finger prints and smudges. Wipe with paper towel.</p>
Weekly	<p><u>Decks (See Illustration Below):</u></p> <ul style="list-style-type: none"> • Remove product from case. • Use WASH spray bottle on decks. Wipe with paper towel. • Use RINSE spray bottle on decks. Dry with paper towel. • Use SANITIZE spray bottle on decks. Let air dry. • For stubborn stains/residue, remove product from case. TURN MAIN POWER SWITCH OFF. Remove decks from case. Submerge in warm, soapy water solution in back room pot sink. Use spray nozzle on pot sink or use RINSE spray bottle on decks. Dry with paper towel. Return decks to case. • Return product to case. Turn main power switch back on.
Weekly	<p><u>Shelving/Brackets/Optional Tag Molding (See Illustration Below):</u></p> <ul style="list-style-type: none"> • Remove product from case. • Use WASH spray bottle to spray components. Wipe with paper towel. • Use RINSE spray bottle on components. Dry with paper towel. • Use SANITIZE spray bottle on shelving, brackets and molding. • Let air dry. Return product to case.
Weekly	<p><u>Exterior Surfaces (Header/Rear Plenum/ Front Panel/Lower Panel/Stainless Mirror):</u></p> <ul style="list-style-type: none"> • Use WASH spray bottle on exterior surfaces. Wipe with paper towel. • Use RINSE spray bottle on exterior surfaces. Dry with paper towel.
Weekly	<p><u>Removable, Magnetized Condenser Coil Filter:</u> See next page.</p>
Monthly	<p><u>Condenser Coil:</u></p> <ul style="list-style-type: none"> • See next page for lower panel removal and location of condenser coil. • If using vacuum, use brush attachment to thoroughly clean entire coil. • If using brush, both metal or fiber brush may be used to remove dust and dirt that can collect on condenser coils. Avoid damaging fins on condenser coil. Replace lower panel.
Monthly	<p><u>Under Case Cleaning:</u> Remove lower panels. Vacuum under case to remove all dust, dirt and debris. Replace lower panels.</p>

GENERAL CLEANING (TO BE PERFORMED BY STORE PERSONNEL) - CONDENSER COIL AIR FILTER

Weekly Condenser Coil Air Filter Cleaning:

- A magnetized air filter is attached to the inside of your unit's lower panel (on condenser coil side).
 - Clean the magnetic condenser coil air filter by following these steps:
1. Grasp lower panel. Lift up and off merchandiser (as shown in illustration below). No screw removal is required.
 2. Remove magnetic condenser coil air filter from inside of lower panel.
 3. Use a soft-bristled brush or paper towel to wipe off excess dust particles and debris from filter. DO NOT use rags or cloths.
 4. Submerge filter in warm, soapy water at back room pot sink (DO NOT use hand sink or coffee sink)! Use soft-bristled brush to remove dust, dirt and residue that may collect on magnetized air filter. Rinse with pot sink's spray nozzle (or spray bottle with pure water). Dry with paper towel.
 5. Reattach magnetic condenser coil air filter to inner lower panel (as shown below).
 6. Reattach lower panel to case.



Note: Any revisions to this sheet must also be made to SCC P/N 20-45889

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

WARNING! TURN OFF CASE BEFORE PERFORMING PREVENTIVE MAINTENANCE!

FREQ.	AREA / INSTRUCTIONS
Quarterly	<p><u>Tub, Coil, Drain, Evaporator Fan Blades, Motors, Brackets:</u></p> <ul style="list-style-type: none"> • <i>Disconnect power from the case before cleaning the tub, coil, fan, motor and drain area!</i> • Remove decking, sub-deck (if any) and fan shroud. • Remove any debris that may clog drain. • Use WASH spray bottle on tub, coil, drain, trough, tub, fan blades, motors and other components. Clean with paper towel or wet/dry vacuum to remove residue. • Use RINSE spray bottle on components. • Replace decking.
Quarterly	<p><u>Condensing Coil (Self-Contained Units Only):</u></p> <ul style="list-style-type: none"> • Remove lower panel (by lifting it up and off). • Condenser coil brush may be used to dislodge dust, dirt and debris from condenser coil. • Slide condensing package out from underside of case (taking care to NOT slide out too far and damage hoses). • Use air pressure or industrial strength vacuum; clean dust and dirt that may collect on condenser coil. DO NOT allow dust to become airborne. Use wet cloths or paper towels to cover area where dust will fly when air pressure is applied. • <i>Caution! Coil fins are sharp. Handle with care!</i> • Replace lower panel in reverse order it was removed. • See sample condenser coil cleaning brushes at right. <div style="text-align: right;"> </div>
Quarterly	<p><u>Refrigeration Package/Compressor Components (Self-Contained Units Only):</u></p> <ul style="list-style-type: none"> • <i>Caution! Disconnect power from case before cleaning!</i> • <i>Warning! Hot gas loop is HOT! Allow to cool before cleaning evaporator pan and wiping down hot gas loop!</i> • Slide/roll compressor package out from under case. • See REFRIGERATION FUNDAMENTALS: SELF-CONTAINED UNIT ILLUSTRATED PARTS BREAKDOWN section in manual for breakdown of condensate package. • Clean evaporator pan with scrub-brush and a de-scaling solution (to prevent corrosion, lime and rust); follow instructions as to proper dilution, safety precautions and scrubbing method. After cleaning pan with scrub-brush and solution, use RINSE spray bottle on evaporator pan. • Use WASH spray bottle on tub, coil, drain, fans, fan blades, sight glass, overflow condensate pan, motors and other components. Wipe down and remove residue with paper towel or wet/dry vacuum. Use RINSE spray bottle on components. Wipe with paper towel. • Slide refrigeration assembly back under case. • Replace side panel.
Quarterly	<p><u>Under Case Cleaning:</u> Once refrigeration package is clear of unit, vacuum under case to remove all dust and dirt that may collect under case.</p>
Quarterly	<p><u>Honeycomb:</u> See next page for cleaning instructions.</p>

PREVENTIVE MAINTENANCE: HONEYCOMB (PERFORMED BY TRAINED SERVICE PROVIDERS ONLY)

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.

If honeycomb is dirty, allow to soak in hot, soapy water in back room pot sink. Use nylon brush to remove dust, debris and stubborn or sticky residue. Use spray nozzle

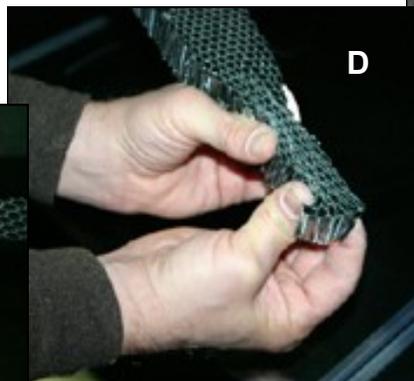
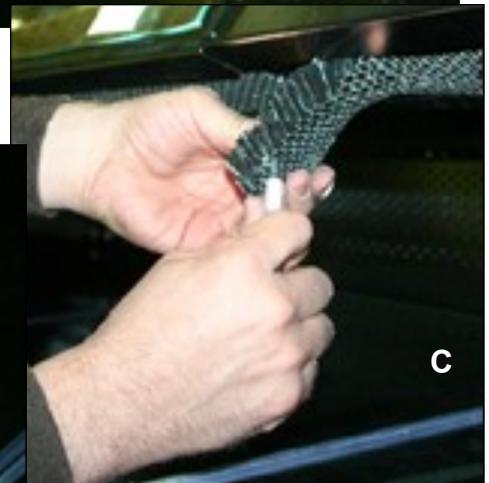
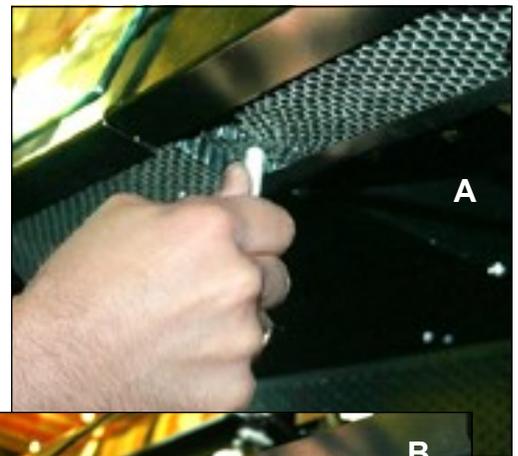
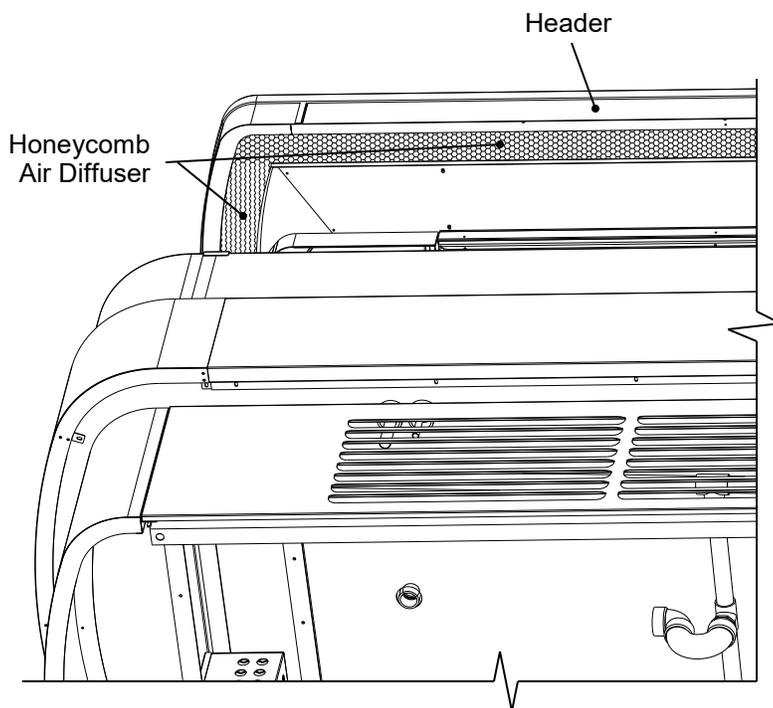
on pot sink or use RINSE spray bottle on honeycomb. Allow honeycomb to air dry or use vacuum 'blow mode'.

2. Honeycomb Air Diffuser Installation

D. Squeeze honeycomb into the honeycomb retainer (behind header).

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.



TROUBLESHOOTING (TO BE PERFORMED BY STORE PERSONNEL*)

CONDITION	TROUBLESHOOTING
Water Is On The Floor	Check that drain at underside of case is properly routed to floor drain (remote cases) or evaporator pan (self-contained units).
	Call service provider.
Fans Emit Excessive Noise	Call service provider.
Case Lights Are Not Working	Check that light switch is on.
	Check that ALL of the light cords and plugs are properly connected. See MAINTENANCE FUNDAMENTALS - SHELF & BRACKET ASSEMBLY REMOVAL / LIGHT FIXTURES section in this manual for specifics.
	Authorized Service Contractors Only: Check circuit breaker box for tripped circuit.
	If case lights still do not come on, call service provider.
One (or Several) Case Lights are Not Working	Check that ALL of the light cords and plugs are properly connected. This includes the following items: <ul style="list-style-type: none"> • Oval form of plug must connect to oval form of LED light. • The power end of cord is to connect at the “red dot” marker at the end of the LED lamp. • See MAINTENANCE FUNDAMENTALS - SHELF & BRACKET ASSEMBLY REMOVAL / LIGHT FIXTURES section in this manual for more specifics including illustrations.
	If case light 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 / TYPE / COMPLIANCE / WARNINGS / PRECAUTIONS / WIRING DIAGRAM section in this manual for specifics.
	If case is located near outside doors, temperature fluctuation can hinder unit’s ability to maintain temperature. See OVERVIEW / TYPE / COMPLIANCE / WARNINGS / PRECAUTIONS / WIRING DIAGRAM 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.

* Unless authorized service contractors are specified.

TROUBLESHOOTING (TO BE PERFORMED BY TRAINED SERVICE PROVIDERS ONLY)

CONDITION	TROUBLESHOOTING
Water Is On The Floor	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"> • These CID units are designed for Type 2 conditions. • Type 2 conditions are ambient conditions of 55% maximum humidity and maximum temperatures of 80 °F (27 °C).
Fans Emit 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.

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

CONDITION	TROUBLESHOOTING
Case Lights Are Not Working	Follow previous page's System Not Operating 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 SCC Technical Service phone number (listed on last page of this operating manual).
One (or Several) Case Lights are Not Working	Follow previous page's System Not Operating instructions.
	If case light still do not come on, call SCC Technical Service phone number (listed on last page of this operating manual).
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 (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 - CONDENSING SYSTEM (BY TRAINED SERVICE PROVIDERS ONLY)

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.
	Perform sub-cooling check and verify that no contaminants are in system.
	Check that liquid line filter dryer is not plugged.
	Check that close-offs are intact (around condensing coil) and that air is not recirculating.
	Check that store ambient temperature isn't above maximum allowed. See OVERVIEW / TYPE / COMPLIANCE / WARNINGS / PRECAUTIONS / WIRING / PLUGS section in this manual.
Head Pressure Too Low	Check if sight glass is flashing or showing low charge.
	Check that suction pressure isn't too low.
	Check that compressor reed valves aren't bad. Look for high suction/low head pressure. Perform pump-down.

TROUBLESHOOTING - EVAPORATOR SYSTEM (BY TRAINED SERVICE PROVIDERS ONLY)

CONDITION	TROUBLESHOOTING
Low Suction Pressure	Check if sight glass is flashing or showing low charge.
	Check that expansion valve (TXV) isn't restricted. Check element charge.
	Check that liquid line or filter isn't restricted. Check that refrigeration lines and/or hoses are not kinked on either high or low sides.
	Check that evaporator fan motors are working.
	Check that superheat is between 6 °F to 8 °F.
	Check that there is no air recirculation around evaporator coil.
	Check that evaporator coil is not iced up.
High Suction Pressure	Check for refrigerant overcharge.
	Check that compressor reed valves aren't bad. Look for high suction/low head pressure. Perform pump down.
	Check that the "cooling load" isn't high. Product must be pre-chilled before placing in refrigerated section of case.
	Check that case is at least <u>15-feet</u> from exterior doors, overhead HVAC vents or any air curtain disruption.
	Check that unit is not exposed to direct sunlight via windows or any other heat source (ovens, fryers, etc.).
	Check that superheat adjustment isn't low.
	Check TXV bulb installation <ul style="list-style-type: none"> a. Poor thermal contact. b. Warm location.

Serial Label Location & Information Listed / Technical Information & Service

- Serial labels are located near the electrical access on your case.
- Serial labels contain electrical, temperature & refrigeration information, as well as regulatory standards to which the case conforms.
- For additional technical information and service, see the *TECHNICAL SERVICE* page in this manual for instructions on contacting Structural Concepts' Technical Service Department.
- See images below for samples of both refrigerated and non-refrigerated serial labels.



888 E. Porter Rd · Muskegon, MI 49441

ENCORE[®] MODEL HV74RSS SCROLL
SERIES SERIAL NO.

FOR PARTS AND SERVICE
CALL 1-800-433-9489

SAMPLE ONLY

  3048256 CONFORMS TO UL STD 471 CONFORMS TO NSF STD 7 CERTIFIED TO CAN/CSA STD C22.2 NO 120	ELECTRICAL RATING REFRIGERANT DESIGN PRESSURE MINIMUM CIRCUIT MAXIMUM OVERCURRENT	120/1/60 24A R404A AMOUNT ?? OZ HIGH 450 LOW 200 30A 30A
---	---	--

SAMPLE ONLY

Super Heat Temp	8-10°F
BTUH Requirements	9,738 BTUH @ 20° F SST
Defrost	6 defrosts per day, 45° F termination, 45 min. failsafe

SAMPLE ONLY

----- Sample Serial Label For Refrigerated Case -----



888 E. Porter Rd · Muskegon, MI 49441

Addenda[®] PC5682 txtRemote
txtSerialNumber

120 VOLTS 60 HZ SINGLE PHASE 1.84AMP

FOR PARTS OR SERVICE CALL
STRUCTURAL CONCEPTS
AT
1-800-433-9489

SAMPLE ONLY

 3048256 CONFORMS TO UL STD 65 CERTIFIED TO CAN/CSA STD C22.2 NO 120	N/A
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----- Sample Serial Label For Non-Refrigerated Case -----

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Programming The Instrument

To Modify The Setpoint

1. Press and hold the "SET" key for at least 1 second.
2. Use arrow keys ▲ ▼ on temperature controller to increase (or decrease) the setpoint.
3. Quickly press and release the "SET" key again.

To Modify Defrost, Differential, Other Parameters

1. Press & hold "Prg" & "SET" keys together for five (5) seconds; display will flash "0", representing password prompt.
2. Confirm by pressing "SET" key.
3. Press ▲ or ▼ to reach the category to be modified.
4. Press "SET" to modify this selected parameter.
5. Increase or decrease the value using the ▲ or ▼ button respectively.
6. Press the "SET" key to temporarily save the new value and return to the display of the parameter.
7. Press & hold the "Prg" key for at least 5 seconds to save changes. This action will also mute the audible alarm (buzzer) & deactivate the alarm relay.

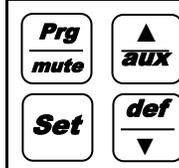
Warning! Save Your Parameter Settings!

1. To store the new parameter values, PRESS and HOLD the "Prg" key for at least 5 seconds.
2. All modifications made to parameters will be lost if you do NOT press a button within 60 seconds. Should this "timeout" occur, normal operational settings (prior to modifications being made) will resume.
3. If the instrument is switched off before pressing the "Prg" key, all modifications to parameters will be lost.

def **To Activate Manual Defrost**
Press and hold "def" key for at least 5 seconds.

aux **To Activate / Deactivate Auxiliary Output**
Press and hold the "aux" key for 1 second.

Prg **▲** **To Reset Any Alarms With Manual Reset**
Press and hold the "Prg" and "aux" key for at least 1 second.



How To Change Reading From Fahrenheit (°F) To Celsius (°C)

1. Press and hold "Prg" and "SET" keys together for at least 5 seconds; display will show "0" (password prompt).
2. Confirm by pressing "SET" key.
3. Press ▲ or ▼ until reaching the parameter "/ 5".
4. Press "SET" to modify this selected parameter.
5. Press ▲ or ▼ to change value to desired setting: "0" for Celsius (°C) or "1" for Fahrenheit (°F).
6. Press "SET" key to temporarily save the new value and return to the display of the parameter.
7. Press & hold "Prg" key for at least 5 seconds to save changes. **Note! All values will automatically convert to new scale. No conversion is required.**

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User Interface - Display

ICON	FUNCTION	DESCRIPTION	ON	Normal operation OFF	BLINK	Start up
	COMPRESSOR	ON when the compressor starts. Flashes when the activation of the compressor is delayed by safety times.	Compressor on	Compressor off	awaiting activation	
	FAN	ON when the fan starts. Flashes when the activation of the fan is prevented due to external disabling or procedures in progress.	Fan on	Fan off	awaiting activation	
	DEFROST	ON when the defrost is activated. Flashes when the activation of the defrost is prevented due to external disabling or procedures in progress.	Defrost in progress	Defrost not in progress	awaiting activation	
	AUX	Flashes if the anti-sweat heater function is active, ON when the auxiliary output (1 and/or 2) selected as AUX (or LIGHT in firmware version 3.6) is activated.	AUX auxiliary output active (version 3.6 light auxiliary output active)	AUX auxiliary output not active	Anti-sweat heater function active	
	ALARM	ON following pre-activation of the delayed external digital input alarm. Flashes in the event of alarms during normal operation (e.g. high/low temperature) or in the event of alarms from an immediate or delayed external digital input.	Delayed external alarm (before the time 'A7' elapses)	No alarm present	Alarms in norm. operation (e.g. High/low temperature) or immediate or delayed alarm from external digital input	
	CLOCK	ON if at least one timed defrost has been set. At start-up, comes ON for a few seconds to indicate that the Real Time Clock is fitted.	If at least 1 timed defrost event has been set	No timed defrost event set	Alarm clock	ON if real-time clock present
	LIGHT	Flashes if the anti-sweat heater function is active, ON when the auxiliary output (1 and/or 2) selected as LIGHT is activated (in firmware version 3.6 it does not flash in anti-sweat heater mode and comes on when the dead band output is active).	Light auxiliary output on (version 3.6 dead band auxiliary output active)	Light auxiliary output off	Anti-sweat heater function active (version 3.6 does not flash in anti-sweat heater mode)	
	SERVICE	Flashes in the event of malfunctions, for example E2PROM errors or probe faults.		No malfunction	Malfunction (e.g. E2PROM error or probe fault). Contact service	
	CONTINUOUS CYCLE	ON when the CONTINUOUS CYCLE function is activated. Flashes if the activation of the function is prevented due to external disabling or procedures in progress (E.g.: minimum compressor OFF time).	CONTINUOUS CYCLE operation activated	CONTINUOUS CYCLE function not activated	CONTINUOUS CYCLE operation requested	

Summary Table of Alarm and Signals: Display, Buzzer and Relay

Code	Icon on the display	Alarm relay	Buzzer	Reset	Description
rE	flashing	on	on	automatic	virtual control probe fault
E0	flashing	off	off	automatic	room probe S1 fault
E1	flashing	off	off	automatic	defrost probe S2 fault
E2	flashing	off	off	automatic	probe S3 fault
E3	flashing	off	off	automatic	probe S4 fault
E4	flashing	off	off	automatic	probe S5 fault
'	No	off	off	automatic	probe not enabled
LO	flashing	on	on	automatic	low temperature alarm
HI	flashing	on	on	automatic	high temperature alarm
AFr	flashing	on	on	manual	antifreeze alarm
IA	flashing	on	on	automatic	immediate alarm from external contact
dA	flashing	on	on	automatic	delayed alarm from external contact
dEF	on	off	off	automatic	defrost running
Ed1	No	off	off	automatic/manual	defrost on evaporator 1 ended by timeout
Ed2	No	off	off	automatic/manual	defrost on evaporator 2 ended by timeout
Pd	flashing	on	on	automatic/manual	maximum pump down time alarm
LP	flashing	on	on	automatic/manual	low pressure alarm
AtS	flashing	on	on	automatic/manual	autostart in pump down
cht	No	off	off	automatic/manual	high condenser temperature pre-alarm
CHT	flashing	on	on	manual	high condenser temperature alarm
dor	flashing	on	on	automatic	door open too long alarm
EE	flashing	off	off	automatic	E?prom error, unit parameters
EF	flashing	off	off	automatic	E?prom error, operating parameters
ccb	Signal				start continuous cycle request
ccE	Signal				end continuous cycle request
dFb	Signal				start defrost call
dFE	Signal				end defrost call
On	Signal				switch ON
off	Signal				switch OFF
rES	Signal				reset alarms w/manual reset / reset HACCP alarms / reset temp. monitoring

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Summary Table of Operating Parameters

CODE	PARAMETER	UOM*	TYPE	MINIMUM	MAXIMUM	DEFAULT
/5	Select Celsius (°C) or Fahrenheit (°F)	flag	C	0	1	For Case Specific Defaults See Serial Label Located Near Electrical Access On Your Case. For Additional Technical Information Call Structural Concepts Technical Service Dept. at 1(800) 433.9489
/c1	Calibration of probe 1	°C/°F	C	-20	20	
/c2	Calibration of probe 2	°C/°F	C	-20	20	
St	Temperature set point	°C/°F	F	r2	r1	
rd	Control delta	°C/°F	F	20	0.1	
dl	Interval between defrosts	hours	F	0	250	
dt1	End defrost temperature, evaporator	°C/°F	F	-50	200	
dP1	Maximum defrost duration, evaporator	min	F	1	250	
d6	Display on hold during defrost	-	C	0	2	
dd	Dripping time after defrost	min	F	0	15	
d/1	Display of defrost probe 1	°C/°F	F	-	-	

* Unit Of Measure

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 a.m. TO 5:00 p.m. 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.)

LIMITED WARRANTY

Overview: All sales by Structural Concepts Corporation (hereafter referred to as "SCC") are subject to the following limited warranty. "Goods" refers to the product or products being sold by SCC.

Warranty Scope: Warranty is for equipment sold in the United States, Canada, Mexico and Puerto Rico. Equipment sold elsewhere may carry modified warranties.

Warranty; Remedies; Limitations: The limit of liability of SCC toward the exchange cost of the original compressor motor (and/or any other components) is one year parts and labor. If any Goods are found to be of faulty material or workmanship within one year of the original F.O.B. (free on board) unit shipment, SCC will, at its option (after inspection by an authorized representative), replace or pay the reasonable cost of replacement of the faulty Goods. If warranty claim is not made within this one year time period, SCC is not bound to warrant Goods. A motor-compressor (and/or any other components) replaced during the warranty shall not exceed manufacturer's current established wholesaler's exchange price. If replacement motor-compressor (and/or other components) is available via storage facility, parts truck, etc., SCC mandates that readily accessible replacement components be used toward repair of Goods; in such instances, SCC will replace such equipment (at its own expense) after confirmation of its use/placement on defective unit. SCC shall not be charged an additional fee, up-charge or expense for such replacement Goods. If SCC is unable to repair or replace the defective Goods, SCC shall issue a credit to the Purchaser for full or partial purchase price, as SCC shall determine. The replacement or payment in the manner described above shall be the sole and exclusive remedy to Purchaser for a breach of this warranty. If any Goods are defective or fail to conform to this warranty, SCC will furnish instructions for their disposition. No Goods shall be returned to SCC without its prior consent.

SCC's liability for any defect in the Goods shall not exceed the purchase price of the Goods. SCC SHALL HAVE NO LIABILITY TO PURCHASER FOR CONSEQUENTIAL DAMAGES OF ANY KIND WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, PERSONAL INJURY, PROPERTY DAMAGE, LOST PROFITS, OR OTHER ECONOMIC INJURY DUE TO ANY DEFECT IN THE GOODS OR ANY BREACH OF SCC, SCC SHALL NOT BE LIABLE TO THE PURCHASER IN TORT FOR ANY NEGLIGENT DESIGN OR MANUFACTURE OF THE GOODS, OR FOR THE OMISSION OF ANY WARNING THEREFROM.

SCC shall have no obligation or liability under this warranty for claims arising from any other party's (including Purchaser's) negligence or misuse of the Goods or environmental conditions. This warranty does not apply to any claim or damage arising from or caused by improper storage, handling, installation, maintenance, or from fire, flood, accidents, structural defects, building settlement or movement, acts of God, or other causes beyond SCC's control.

Except as expressly stated herein, SCC makes no warranty, express, implied, statutory or otherwise as to any parts or goods not manufactured by SCC. SCC shall warrant such parts or Goods only (I) against such defects, (II) for such periods of time, and (III) with such remedies, as are expressly warranted by the manufacturer of such parts of Goods. Notwithstanding the foregoing, any warranty with respect to such parts of Goods and any remedies available as a result of a breach thereof shall be subject to all of the procedures, limitations, and exclusions set forth herein.

THE WARRANTIES HEREIN ARE IN LIEU OF ALL WARRANTIES, EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE. IN PARTICULAR, SCC MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

No representative, agent or dealer of SCC has authority to modify, expand, or extend this Warranty, to waive any of the limitations or exclusions, or to make any different or additional warranties with respect to Goods.

Period of Limitations: No claim, suit or other proceeding may be brought by Purchaser for any breach of the foregoing warranty or this Agreement by SCC or in any way arising out of this Agreement or relating to the Goods after one year from the date of the breach. In the interpretation of this limitation on action for a breach by SCC, it is expressly agreed that there are no warranties of future performance of the goods that would extend that period of limitation herein contained for bringing an action.

Indemnifications: Purchaser agrees to indemnify, hold harmless, and defend SCC if so requested, from any and all liabilities, as defined herein, suffered, or incurred by SCC as a result of, or in connection with, any act, omission, or use of the Goods by Purchaser, its employees or customers, or any breach of this Agreement by Purchaser. Liabilities shall include all costs, claims, damages, judgments, and expenses (including reasonable attorney fees and costs).

Remedies of SCC: SCC's rights and remedies shall be cumulative and may be exercised from time to time. In a proceeding or action relating to the breach of this Agreement by Purchaser, Purchaser shall reimburse SCC for reasonable costs and attorney's fees incurred by SCC. No waiver by SCC of any breach of Purchaser shall be effective unless in writing nor operate as a waiver of any other breach of the same term thereafter. SCC shall not lose any right because it has not exercised it in the past.

Applicable Law. This Agreement is made in Michigan; it is governed by and interpreted according to Michigan law. Any lawsuit arising out of this Agreement or the Goods may be handled by a federal or state court whose district includes Muskegon County, Michigan, and Purchaser consents that such court shall have personal jurisdiction over Purchaser.

LED Lighting Components Within Lighting System: Supermarket: 5-year LED warranty from date of shipment. **Foodservice:** 2-year LED warranty from date of shipment. After one year, warranty does not include labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing, or handling of either defective part or replacement parts. Remedy of repair or provision of a replacement part without charge shall be the exclusive remedy for any warranty claim. The replacement LED and/or power supply assumes the unused portion of warranty remaining on unit(s). A 90-day warranty will apply for any LED sold as a service part. Warranty claim must include serial and model number of unit as well as date code on defective LED lighting component(s). Manufacturer may request return of defective part(s) at customer's expense to initiate claim.

Glass Material: Glass (UV-bonded glass, glass sneeze guards, glass enclosures, glass held in place via posts, etc.) is only warranted to FIRST POINT OF DELIVERY.

Miscellaneous: If any provision of this Agreement is found to be invalid or unenforceable under any law, the provision shall be ineffective to that extent and for the duration of the illegality, but the remaining provisions shall be unaffected. Purchaser shall not assign any of its rights nor delegate any of these obligations under this Agreement without prior written consent of SCC. This Agreement shall be binding upon and inure to the benefit of SCC and Purchaser and each of their legal representatives, successors and assignees. SCC warrants its products to be free of defects in materials and workmanship under normal use and service for a period of one (1) year from the date of delivery.

This warranty is extended only to the original purchaser for use of the Goods. It does not cover normal wear parts such as plastic tongs, tong holders, tong cables, bag holders, or acrylic dividers.

General Conditions: All service labor and/or parts charges are subject to approval by SCC. Contact Customer Service Dept. in writing, by phone, fax or email.

All claims must contain the following information: (1) model & serial code number of equipment; (2) the date and place of installation; (3) the name and address of the agency which performed the installation; (4) the date of the equipment failure; and (5) a complete description of the equipment failure and all circumstances relating to that failure.

Once the claim has been determined to be a true warranty claim by SCC's Customer Service Department, the following procedure will be taken: (1) replacement parts will be sent at no charge from SCC on a freight prepaid basis; (2) reimbursement for service labor will be paid if the following conditions have been met - (a) prior approval of service agency was awarded from the Customer Service Department; and (b) an itemized statement of all labor charges incurred is received by the Customer Service Department. The cost of the service labor reimbursement will be based on straight time rates and reasonable time for the repair of the defect.

If problems occur with any compressor, notify SCC's Customer Service Department immediately. Any attempt to repair or alter the unit without prior consent from the Customer Service Department will render any warranty claim null and void. This warranty and protection plan does not apply to any condensing unit or any part thereof which has been subject to accident, negligence, misuse, or abuse, or which has not been operated in accordance with the manufacturer's recommendations or if the serial number of the unit has been altered, defaced, or removed.

One Year Limit of Liability: After SCC's one-year parts and labor warranty on the original F.O.B. (free on board) unit has expired, SCC is not liable for either the equipment or labor costs of repairing or replacing the motor compressor, nor any other components that were included in the original F.O.B. (free on board) unit.