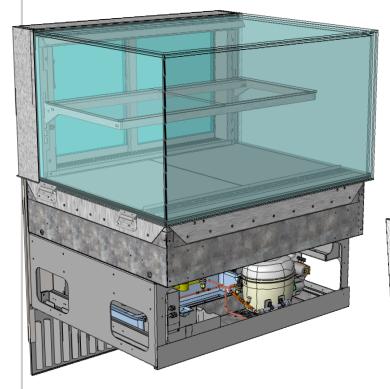
Reveal ® User Manual

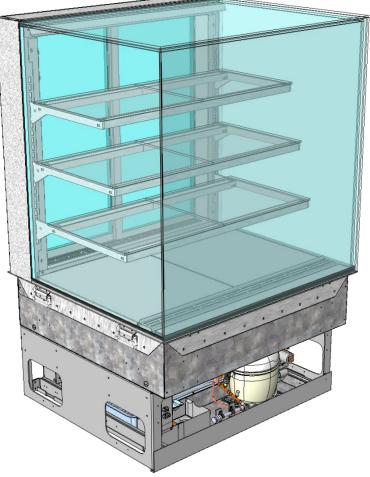
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REVEAL® SLIDE-IN, SERVICE REFRIGERATED MERCHANDISERS

- > REAR SLIDING DOORS > SELF-CONTAINED OR REMOTE UNITS
- > CAUTION! DO NOT PUSH OR PULL ON UPPER GLASS ENCLOSURE!
- > ONLY USE HANDLES (AT EACH END OF CASE) TO PUSH OR PULL CASE INTO POSITION!



Model NE3635RSV With Three Shelves and Rear Sliding Doors Model NE3620RSV With Single Shelf, Rear Sliding Doors, And Optional Finished Back Panel



Structural Concepts

DELIVERING FRESH. ALWAYS.[™] Structural Concepts Corp. · 888 E. Porter Rd · Muskegon, MI 49441 Phone: 231.798.8888 Fax: 231.798.4960 · www.structuralconcept

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REVEAL® SLIDE-IN, REFRIGERATED SERVICE MODEL APPLICABILITY & DIMENSIONS

.

Model	Upper Display Height	Overall Height	Case Depth x Length
NE3613RSV	13 5/8"UDH	32 7/8"OH	33"D x 35 3/4"L
NE3620RSV	20 3/8"UDH	39 5/8"OH	33"D x 35 3/4"L
NE3627RSV	27 7/8"UDH	47 1/8"OH	33"D x 35 3/4"L
NE3635RSV	35 1/4"UDH	54 5/8"OH	33"D x 35 3/4"L
NE4813RSV	13 5/8"UDH	32 7/8"OH	33"D x 47 3/4"L
NE4820RSV	20 3/8"UDH	39 5/8"	33"D x 47 3/4"L
NE4827RSV	27 7/8"UDH	47 1/8"OH	33"D x 47 3/4"L
NE4835RSV	35 1/4"UDH	54 5/8"OH	33"D x 47 3/4"L
NE6013RSV	13 5/5"UDH	32 7/8"OH	33"D x 59 3/4"L
NE6020RSV	20 3/8"UDH	39 5/8"OH	33"D x 59 3/4"L
NE6027RSV	27 7/8"UDH	47 1/8"OH	33"D x 59 3/4"L
NE6035RSV	35 1/4"UDH	54 5/8"OH	33"D x 59 3/4"L
NE7213RSV	13 5/8"UDH	32 7/8"OH	33"D x 71 3/4"L
NE7220RSV	20 3/8"UDH	39 5/8"OH	33"D x 71 3/4"L
NE7227RSV	27 7/8"UDH	47 1/8"OH	33"D x 71 3/4"L
NE7235RSV	35 1/4"UDH	54 5/8"OH	33"D x 71 3/4"L

OVERVIEW / DISPLAY TYPE I vs. II / COMPLIANCE / WARNINGS / PRECAUTIONS - PAGE 1 of 2

OVERVIEW

- These Structural Concepts Reveal® cases are designed to merchandise packaged products at 40 °F (4 °C) or less product temperatures.
- Cases should be installed and operated according to this operating manual's instructions to insure 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 maximum relative humidity of 55%.

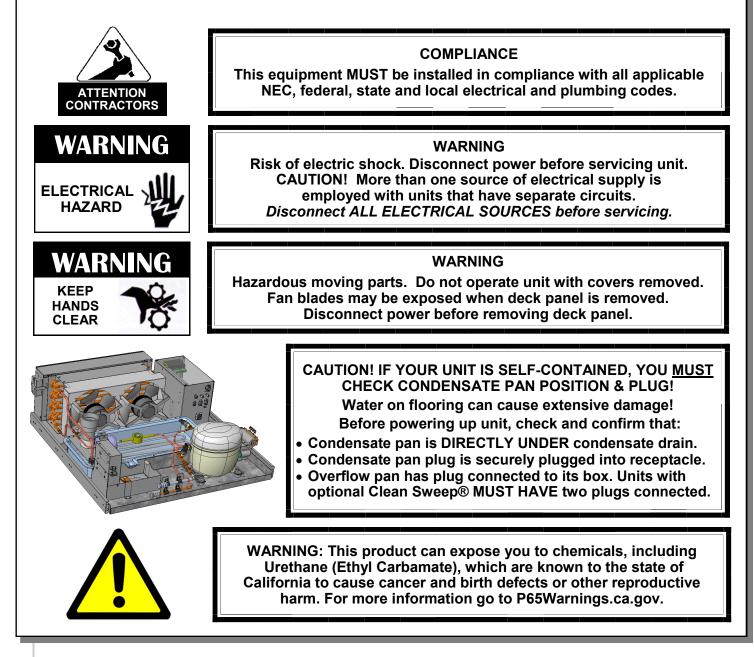
- NSF/ANSI Type II Conditions: Product is displayed in store conditions with maximum ambient temperature of 80 °F (27 °C) and maximum relative humidity of 55%.
- If you are unsure if your unit is classified as NSF/ANSI Type I or Type II, see tag next to serial label on your case.

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

- Please read the important warnings in this document carefully as they can prevent injury or death.
- See next page for **PRECAUTIONS**.



PRECAUTIONS

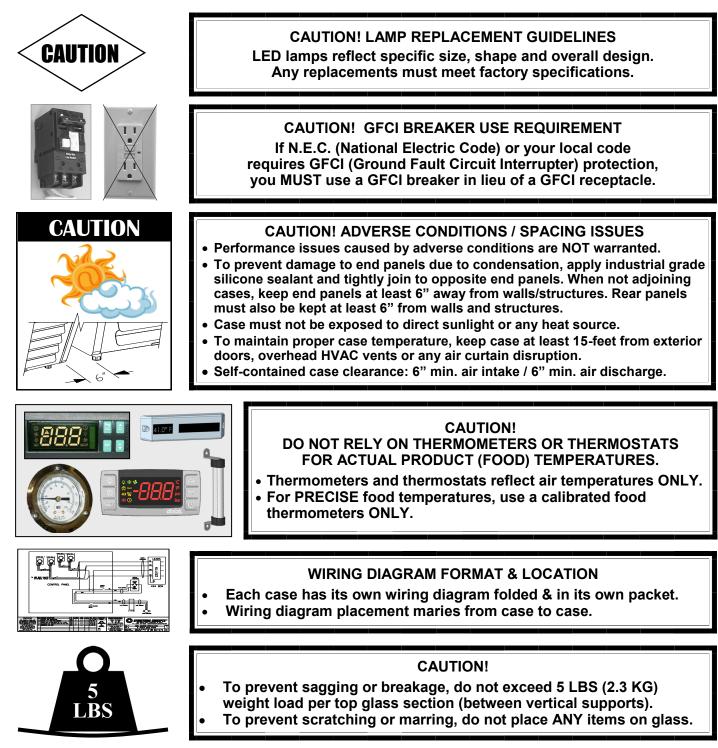
- Following are important precautions to prevent damage to unit or merchandise.
- Please read carefully!

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.



INSTALLATION: TOE-KICK & GRILLE REMOVAL / CASE DISONNECTION & PALLET REMOVAL

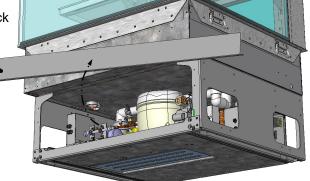
1. Remove Toe-Kick From Case

- If present, remove and discard air exhaust side • toe-kick from case before removing from pallet.
- Toe-kick is held in place by magnets only. No • screw removal is required.

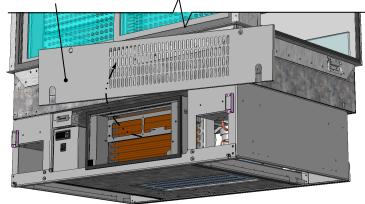
2. Remove Air Intake Grille From Case

- To prevent damage to case, lift air intake grille • UP and OFF case.
- Air intake grille is held in place by magnets. • No screw removal is required.
- Place air intake grille in secure location while • removing case from pallet.

Toe-Kick



Air Intake Grille

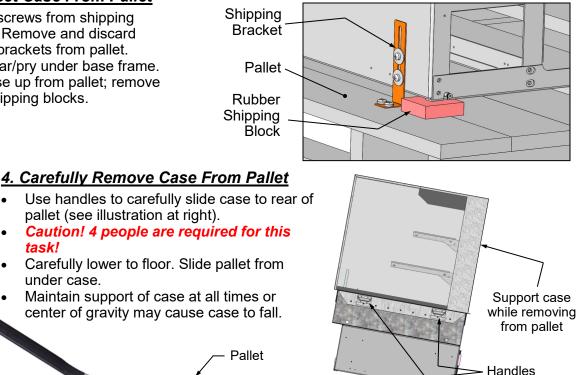


3. Disconnect Case From Pallet

- Remove screws from shipping brackets. Remove and discard shipping brackets from pallet.
- Place J-bar/pry under base frame. Raise case up from pallet; remove rubber shipping blocks.

task!

under case.



INSTALLATION, CONT'D: POSITIONING CASE / HANDLE REMOVAL / SHIPPING BRACE / GRILLE

5. Prepare Case For Counter: Rear Panels

- Rear panels must remain OFF case while it is slid in (or dropped into) counter.
- Panels may be damaged if they remain on the case while placed in counter.

6. Prepare Case For Counter: Magnets

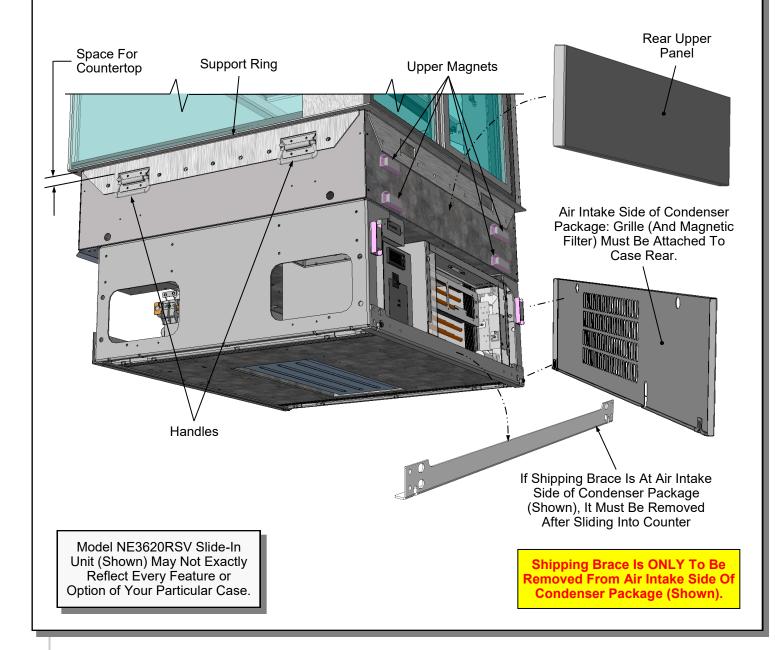
 <u>Slide-In Units</u>: All rear magnets may remain on case while SLIDING INTO counters.
 <u>Drop-In Units</u>: Due to space restraints, rear magnets MAY NEED TO BE REMOVED from case

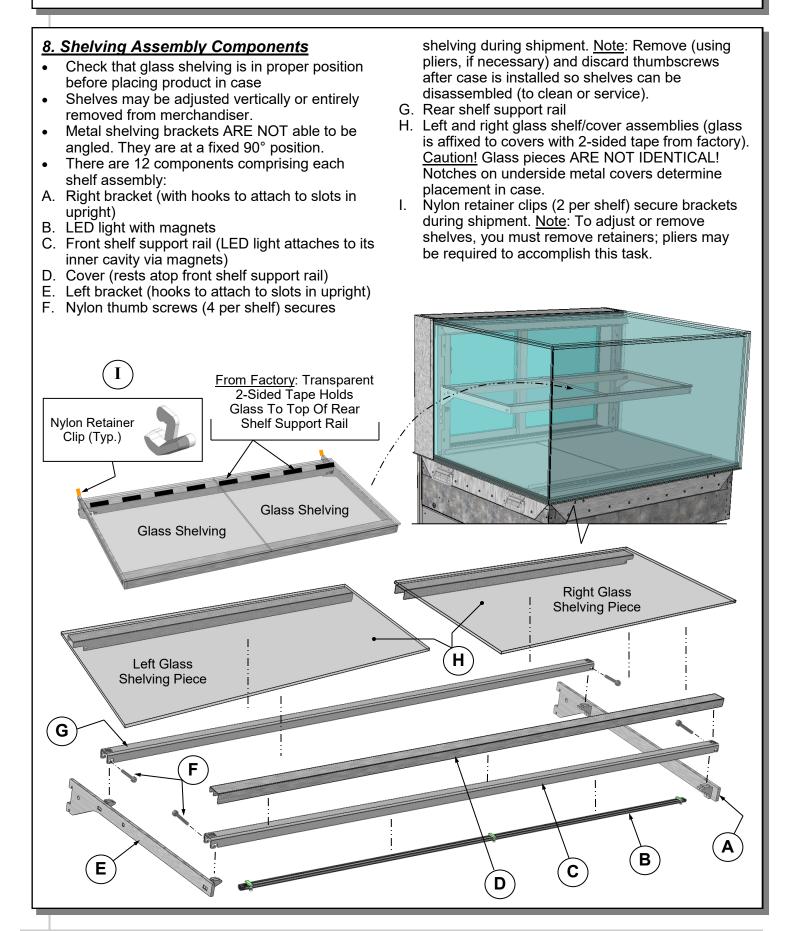
for case to fit into counter. Measure carefully! > Lower set of magnets MAY BE REATTACHED to case to allow lower rear panel to be held in place.

7. Prepare Case For Counter: Side Handles

> <u>Slide-In Units</u>: Side handles MAY remain on case if space allows. Otherwise, remove them.

- See "Space For Countertop" shown in illustration below.
- Keep handles in safe place for future possible relocation use.
- > <u>Drop-In Units</u>: Due to space restraints, REMOVE SIDE HANDLES to allow case to fit into counter.
- Keep handles in safe place for future possible relocation use.
- See illustration below.





INSTALLATION, CONT'D: PLUG CASE IN & TURN ON / AIR INTAKE GRILLE / UPPER REAR PANEL

9. Remove Shipping Brace

- Shipping brace keeps condenser package secure • during shipment and while moving case into position.
- After case is ready to slide in counter, remove • shipping brace that is just below condenser package by removing (2) screws.
- Note: Shipping Brace Is ONLY To Be Removed • From Air Intake Side of Condenser Package!

10. Plug Case In / Turn Main Power Switch On

- Power cord with plug is factory-supplied. •
- Plug case into customer-supplied electrical outlet. •
- Note 1: Floor receptacle view at right is for • illustrative purposes only.
- Note 2: Due to space constraints, it may be • necessary to slide out condenser package to maneuver power cord plug around components and into receptacle.
- Turn main power switch on. •
- Check that case is energized. Lift deck pans to • confirm that evaporator fans are rotating).
- Turn on LED light switch (accessible at case rear • upright after opening rear-right sliding door).

11. Air Intake Grille / Upper Rear Panel

- If rear magnets were removed (due to unit being • placed in drop-in counters) you must reattach LOWER magnets to case.
- Air intake grille (and magnetic air filter) must • now be reattached to case.
- Rear upper panel MAY BE reattached for units • placed in slide-in counters (as upper magnets would not have been removed from case).
- Do not reattach upper rear panel to drop-in • case.

Factory-Supplied Power Cord With Plug ۲ **Customer Supplied Receptacle** Main Power (Sample Floor Unit Illustrated). Switch Note: Casters Removed For Illustrative Purposes Only. Upper Rear Panel Air Intake Grille Shipping Brace Is ONLY To Be Lower **Removed From Air Intake Side** Magnet Of Condenser Package (Shown) Shipping Brace

--- Model NE3620RSV Shown Above ---

INSTALLATION, CONT'D: OPTIONAL REAR VENTED PANEL ASSEMBLY

12. Optional Rear Vented Panel Assembly

>> <u>Important!</u> Carefully follow these step-by-step instructions for proper component attachment.

>> This document depicts Model NE3635RSSV with rear vented panel option; it is applicable to both NEXXXXRSV and NEXXXXRSSV models.

- 1. If magnet assemblies are attached to frame uprights, relocate them to openings in upper plate (item #4). To attach, drill pilot holes and use self-tapping screws.
- 2. Remove (2) Allen® head standoff screws.
- 3. Remove shipping brace (and its screws).
- 4. View of magnet assemblies at proper location.

 Attach SCC-supplied side brackets to case where shown with screws into pre-tapped holes;

Magnets Shown Attached

To Frame Uprights

prongs facing out; edge of brackets must line up with outside Edges of frame.

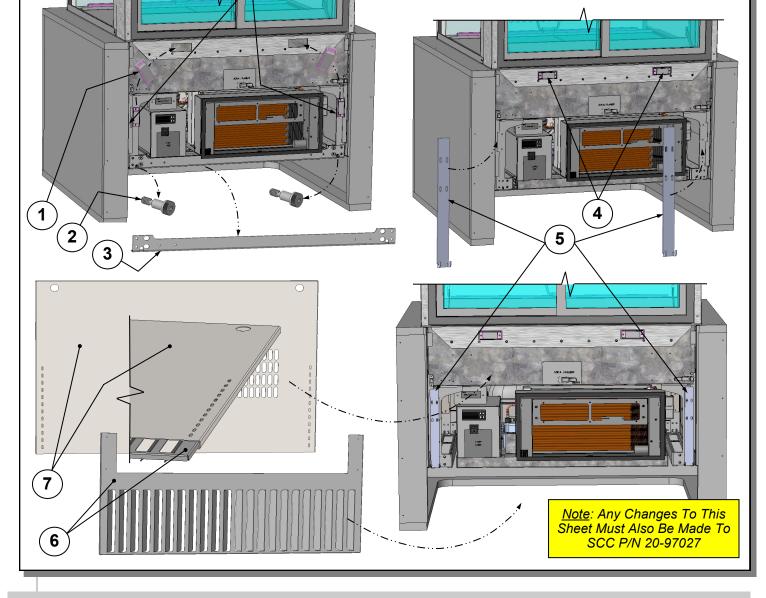
- 6. Insert lower vented panel into upper vented panel.
- 7. Attach upper vented panel to case rear via side bracket hooks (item #5) and upper magnets (item #4).

>> Adjust (item #6) until flush to floor/cabinet. Remove item #6 AND #7 (holding item #6 in 'flush to floor/cabinet' position). >> Rotate item #6 and #7 assembly so screw locations of item #6 are viewable. Mark (4) locations onto item #7's knockouts.

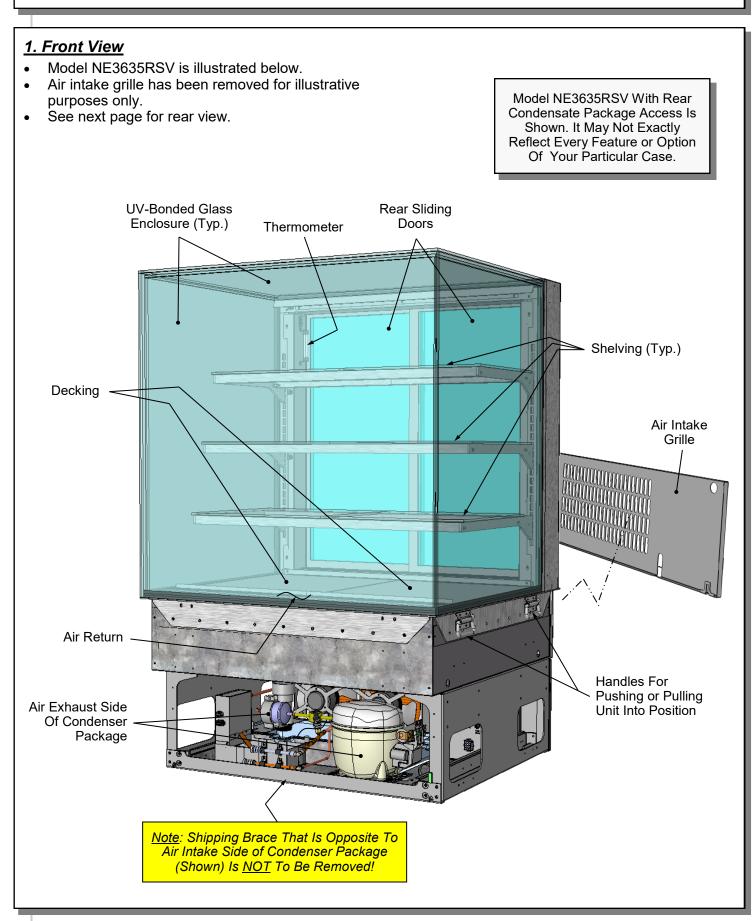
>> Separate item #7 from item #6. Use screwdriver or similar instrument to remove all four (4) marked knockouts (to allow proper lineup with screws of item #6).

>> Insert item #6 back into item #7.

>> Reattach item #7 (with #6 inserted at underside) to case via side bracket hooks (item #5) & upper magnets (item #4). >> Adjust item #6 until it is at the proper 'flush to floor/ cabinet' position again. Attach item #7 to #6 with (2) screws at each end of item #6 through the (2) obround knockouts at each end.



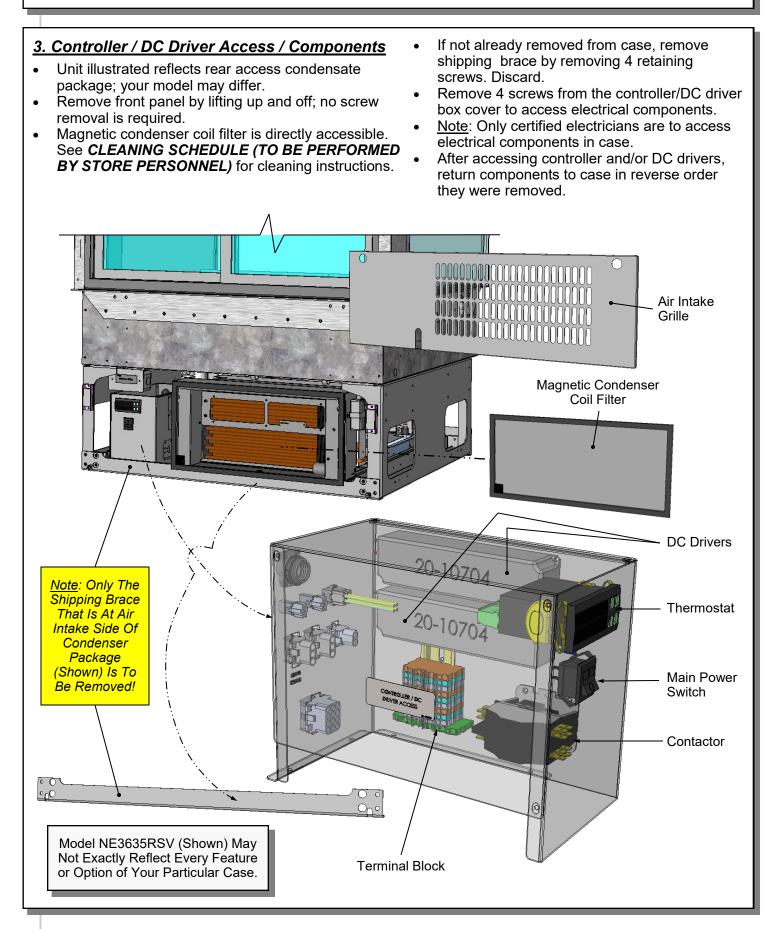
CASE DESIGN: FRONT VIEW - GENERAL



CASE DESIGN, CONT'D: REAR VIEW - GENERAL

2. Rear View Of Slide-In, Service Merchandisers Model NE3635RSV With Rear Model NE3635RSV slide-in unit is illustrated below. • Condensate Package Access Is Unit illustrated reflects rear access condensate package; yours • Shown. It May Not Exactly may differ. Reflect Every Feature or Option Air intake grille has been removed for illustrative purposes only. • Of Your Particular Case. Handles (at both ends of case) are for pushing/pulling into position. • Handles are to be removed before sliding into counter. • See previous page for front view. UV-Bonded Glass Enclosure (Typ.) Rear Sliding Doors Shelving Air Intake Grille Ê **Field Access** Box Magnets For Air Handles Are For Intake Grille Pushing or Pulling Attachment Unit Into Position. Remove handles Thermostat and before sliding Main Power Switch into counter. <u>Note</u>: Only The Shipping Brace That Is At Air Intake **Condenser Package** Side Of Condenser Package (Shown With Optional (Shown) Is To Be Removed! Shipping Brace Clean Sweep System)

CASE DESIGN, CONT'D: CONTROLLER / DC DRIVERS / MAIN POWER SWITCH / COIL FILTER



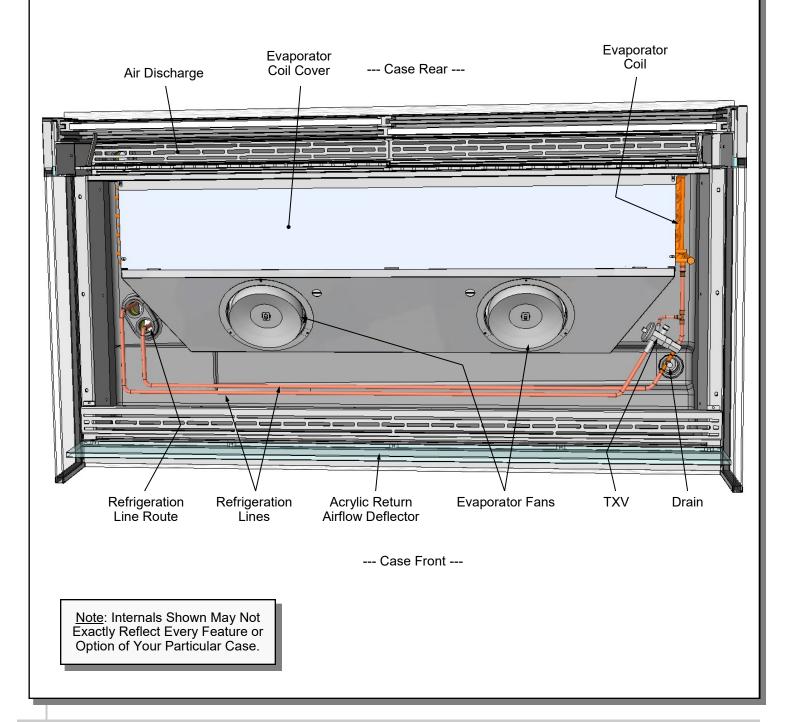
CASE DESIGN, CONT'D: TUB AREA (AFTER DECK PAN REMOVAL)

4. Tub Area (After Deck Pan Removal)

Note: Refrigeration service to be accomplished by refrigeration / electrical contractors only.

<u>Caution</u>! Turn main power off before accessing tub area.

- Illustration below shown after removal of deck pans.
- After cleaning or servicing in tub area, return deck pans to case and return power to case.



CASE DESIGN, CONT'D: LED LIGHT SWITCH LOCATION / LED LIGHTS / THERMOMETER

5. LED Light Switch Locations

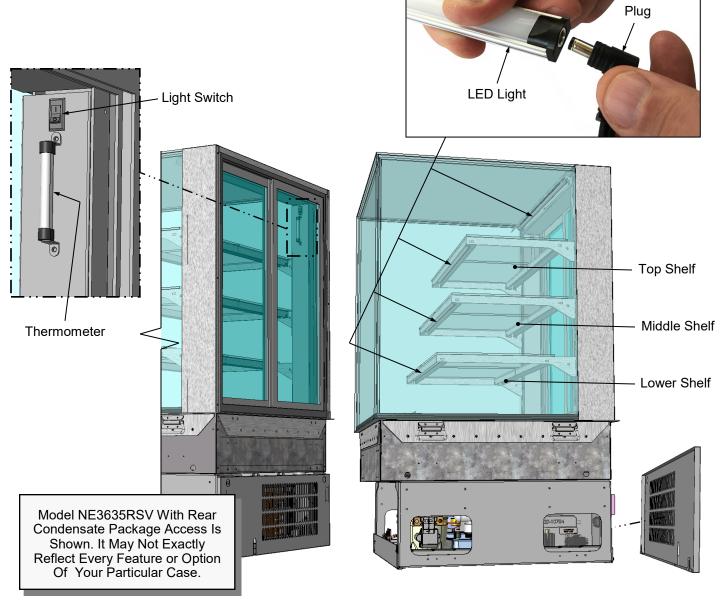
- Light switch is in column cover (accessible by sliding open door at case rear).
- See illustrations below-right.

6. LED Lights

- LED lights are located at both header and shelving of case (as shown below).
- 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.

7. Thermometer Function & Placement

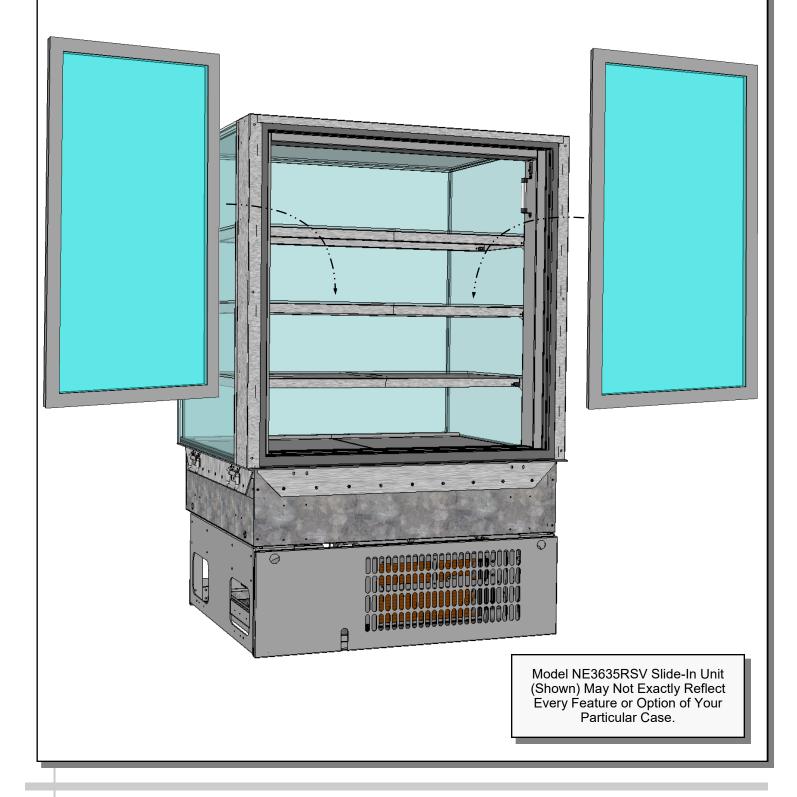
- Thermometer provides temperature of refrigerated section of case.
- Thermometers reflect warmest air temperature in merchandiser. They do not provide actual food temperature.
- Use probe thermometers to determine actual product temperatures.



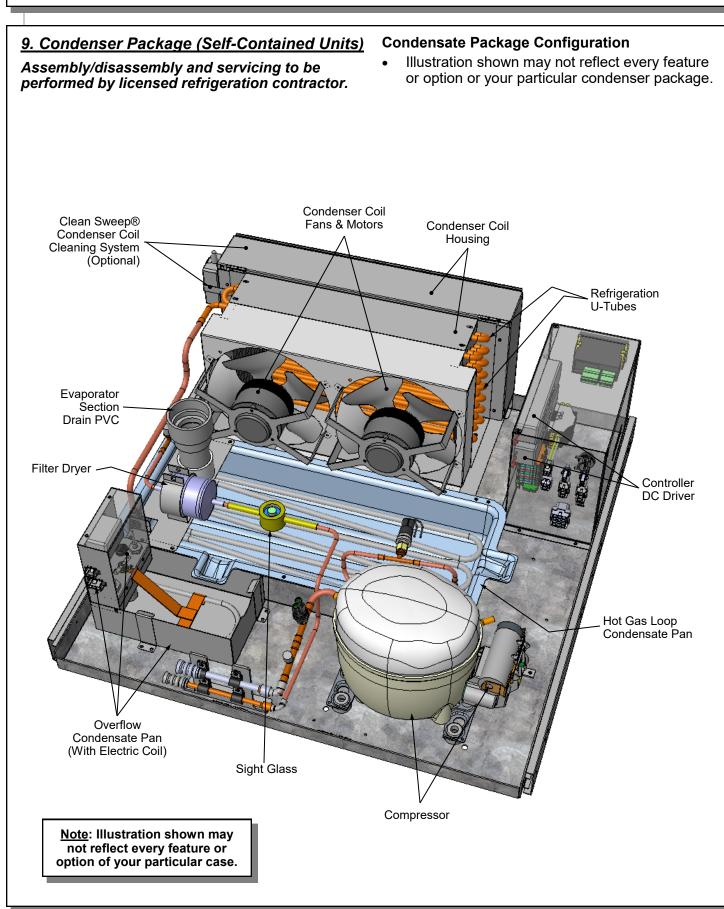
CASE DESIGN, CONT'D: REAR SLIDING DOOR REMOVAL / REPLACEMENT

8. Rear Sliding Door Removal / Replacement

- To remove rear sliding doors, move rear doors toward center of the case.
- Individually lift each door up toward the top of the case; pivot the bottom of the door out.
- Return doors to case in reverse order they were removed.



CASE DESIGN, CONT'D: CONDENSER PACKAGE (SELF-CONTAINED UNITS ONLY)



PRODUCT PLACEMENT / AIRFLOW CONSIDERATION / LOAD LINES

1. Product Placement

- Product can be placed on decking or steps (risers) within the service display area.
- A wide range of product may be displayed.

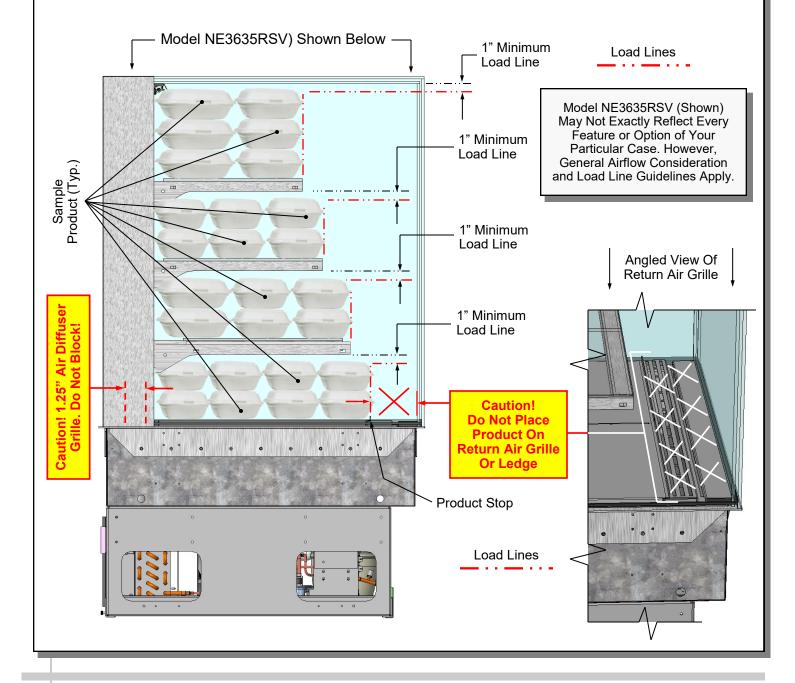
2. Air Diffuser Grille & Return Air Grille Considerations

- Proper airflow is critical to maintain proper product temperature.
- Proper product placement will allow rear air to flow over (and around) product to return air grille at case front. See illustration below for specifics.

- Caution! For airflow to reach return air grille, you must not block front or rear grilles with product.
- Do not place product on front ledge of case.

3. Load Lines

- Load lines represent the maximum height that product can be place and/or stacked in case.
- Keep product at or under load lines to assure that refrigerated airflow is properly cycled from air diffuser through return air grille.
- Proper product placement will maintain acceptable product temperature.
- See illustration below.



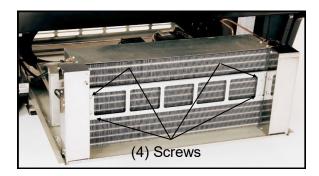
CLEANING SCHEDULE (TO BE PERFORMED BY STORE PERSONNEL)

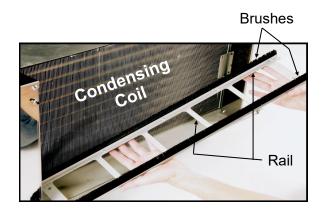
FREQ.	INSTRUCTIONS
Daily	Glass Surfaces: Clean side glass and shelves with household or commercial glass cleaner.
Daily	Rear Sliding Door Exterior Glass: Clean with household or commercial glass cleaner. Clean out rear door track with moist cloth.
Daily	Rear Panels, Toe-Kick, etc. : Wipe off all surfaces with warm water and mild soap solution and non -abrasive cloth.
Daily	Decks : Wipe off decks with moist cloth dipped in mild soap and water solution.
Daily	 Stainless Steel Surfaces: Wash with a solution of hand dishwashing liquid detergent and water, or a solution of baking soda and water. Rinse and polish dry with paper towel or soft cloth. Never use scouring powders or steel wool as they will scratch stainless steel. Brighten by polishing with a cloth dipped in vinegar or in ammonia; sprinkle baking soda on sponge and rub gently; rinse. Polish dry with paper towel. Remove streaks or heat stains from stainless steel by rubbing with club soda.
Weekly	 <u>Acrylic Surfaces (Optional Rear Acrylic Perforated Plenum)</u>: <u>Clean</u>: Use soft, clean cloth dipped in solution of warm water and small amount of mild, liquid soap. Apply light pressure while wiping away all smudges and residue. <u>Rinse</u>: Use pure water in spray bottle to rinse. <u>Dry</u>: Use soft, clean cloth (rather than abrasive paper towel). <u>Avoid</u>: Never use window or household cleaners such as Windex®, Formula 409®, or fantastik®. Never use scouring compounds or solvents such as acetone, gasoline, alcohol, 111 trichloroethylene, WD-40® or lacquer thinner. <u>Polishing</u>: Buff with light coat of automobile paste wax or plastic cleaner/polish. <u>Scratches</u>: Use high quality buffing compound. Carefully follow instructions.
Weekly	 Magnetic Condenser Coil Air Intake Filter (Self-Contained Units Only): This air intake filter helps prevent dust particles from entering condenser coil. It is accessible at air intake side of case. Clean magnetic condenser coil filter by following either step 1 or 2; then follow step 3: As magnetic condenser coil filter is dishwasher safe, remove from case (no screw removal required) and use a rag or soft-bristled brush to wipe off excess dust particles from filter. Run in normal dishwasher cycle. Remove from dishwasher. Dry with soft cloth or paper towel. Return to case. If not using dishwasher, remove magnetic condenser coil filter from case. Use a rag or soft-bristled brush to remove dust, dirt, grease and grime that may collect on filter. Rinse thoroughly. Dry with soft cloth or paper towel (as shown below) or allow to air dry. Replace.
Quarterly	 Under Case Cleaning: If there is adequate space between underside of case and floor (or base of cabinetry), thoroughly clean as directed below. If there is NOT adequate space between underside of case and floor (or base of cabinetry) to thoroughly clean, you must remove lower rear grille (held to case by magnets). > If unit is remote, clean as directed below. > If unit is self-contained, slide condenser package out from under case for greater access and clean as directed below. Use vacuum with brush to remove all dust, dirt, food particles or residue from underside of case. Replace lower rear grille when cleaning process is complete.

W	WARNING! TURN OFF CASE BEFORE PERFORMING PREVENTIVE MAINTENANCE!		
FREQ.	INSTRUCTIONS		
Quarterly	 Condensing Coil: Remove air intake grille to access area. Simply lift up and off. Roll/slide out condenser package. <u>Note</u>: At initial slide-out, it may be necessary to remove two (2) compressor pan shipment screws to slide it out from under case. <i>Warning! Coil fins are sharp. Handle with care!</i> <i>Caution! Airborne dust can contaminate food!</i> Use wet rags to cover area where air pressure is blowing. Use air pressure or industrial strength vacuum; clean dust and dirt that may collect on condenser coil. Slide/roll condensing package back under case. Return air intake grille to case. 		
Quarterly	 Condenser Package: Caution! Disconnect power from case before cleaning! See CASE DESIGN, CONT'D: CONDENSER PACKAGE (SELF-CONTAINED UNITS ONLY) section in manual for illustrations. Warning! Condensate pan may be HOT! Disconnect power from case and allow to cool before cleaning condensate pan! Remove air intake grille from case (no screw removal is required). Slide/roll condenser package out from under case. 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. If electric coil overflow condensate pan is dirty, clean it (and in same manner) while cleaning rest of condenser package. After thoroughly cleaning condensate 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 condenser package back under case. Replace air intake grille to case (no screws required). 		
Quarterly	Under Case Cleaning: See previous page for instructions.		
Quarterly	 Tub Area (Evaporator Coil, Drain, Fans, Brackets, Etc.): Caution! Disconnect power from case before cleaning tub area. See CASE DESIGN, CONT'D: TUB AREA (AFTER DECK PAN REMOVAL) section in manual for illustration. 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. 		

PREVENTIVE MAINTENANCE (TO BE PERFORMED BY TRAINED SERVICE PROVIDER) - PAGE 2 OF 2

FREQUENCY	INSTRUCTIONS
Quarterly	 Optional Clean Sweep[™] Condensing Coil Cleaner: Disconnect power from case before servicing the Clean Sweep[™] Condenser Coil Cleaner! Remove air intake grille (by lifting up and off); no screw removal is required. Slide/roll out condensing package from underside of case assembly. Remove the four (4) screws holding the Clean Sweep[™] rail intact. Remove the Clean Sweep[™] rail. Wash rails' brushes in hot water and mild soap solution. If brushes are worn, they must be replaced. Call Technical Service Department to replace. Toll-Free number is listed at end of manual. Clean condensing coil: Use air pressure or industrial strength vacuum; clean the dust and dirt that may collect on the condenser coil. Caution! Coil fins are sharp. Handle with care! Reattach Clean Sweep[™] rail to condensing unit (4 screws). Slide/roll condensing package back under case. Replace air intake grille to case (4 screws). See photos below.





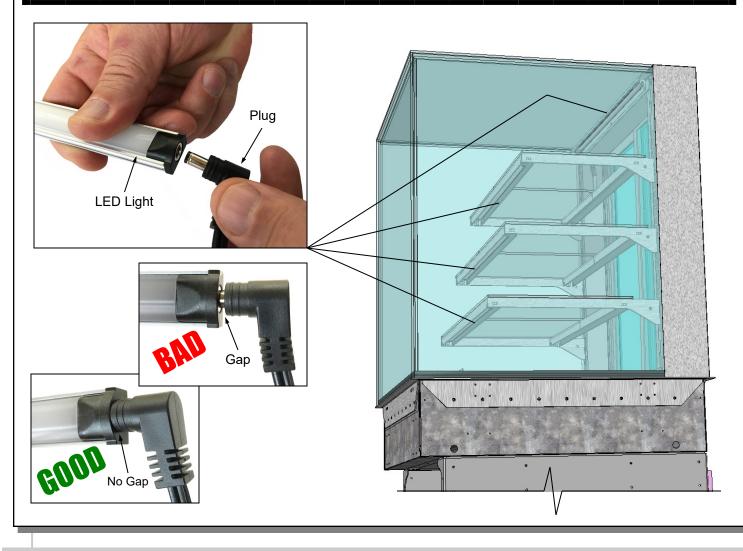
--- Above photos are taken after air intake grille has been removed from case ---

TROUBLESHOOTING (TO BE PERFORMED BY STORE PERSONNEL) - PAGE 1 OF 2

CONDITION	TROUBLESHOOTING
Water Is On The Floor	
water is On The Floor	Call service provider.
Fan Emits Excessive Noise	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 / DISPLAY TYPE I vs. II / COMPLIANCE / WARNINGS / PRECAUTIONS section in this manual for specifics.
	If case is located near outside doors, temperature fluctuation can hinder unit's ability to maintain temperature.
	 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.

TROUBLESHOOTING (TO BE PERFORMED BY STORE PERSONNEL) - PAGE 2 OF 2

CONDITION	TROUBLESHOOTING
Case Lights Not Working	 Check that light switch is in the ON position. See CASE DESIGN, CONT'D: LED LIGHT SWITCH LOCATION / LED LIGHTS / THERMOMETER section in manual for switch location (regardless of case design).
	If case is not hard-wired, check that power cord is properly connected to wall outlet.
	 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). See illustrations below-left.
	 Power may not be reaching the case. Contact store management to have trained service provider perform troubleshooting. Troubleshooting to be performed by trained service providers only is on next page.
	 If case light still do not come on, it may need to be replaced. Contact Structural Concepts' Technical Service Department for replacement light (see <i>TECHNICAL SERVICE</i> section of this manual for contact information). To replace, disconnect plug from existing LED light. Disconnect LED light from its brackets. Replace with new LED light. Insert plug ALL THE WAY into LED light orifice.



TROUBLESHOOTING (TO BE PERFORMED BY TRAINED SERVICE PROVIDERS ONLY) - PAGE 1 OF 3

CONDITION	TROUBLESHOOTING
Water Is On The Floor	 Caution! Disruption of power or malfunctioning condensate pan (or electric coil overflow condensate pan) may cause water to overflow pan and seep onto flooring causing damage! Until condensate pan(s) are functioning (or are replaced), follow these procedures: Use wet vacuum (or mop & bucket) to remove standing water. Use 'catch pans' for water to drain into. Swap out regularly until case has completely drained. When power to case is restored, condensate pan should function properly and water will no longer overflow onto flooring.
	Check that the drain trap is free of debris.
	Check that the drain PVC is correctly positioned over condensate pan.
	Check store conditions. To prevent condensation in Type I environments, maximum conditions are to be 55% humidity / 75° Fahrenheit. For Type II environmants, maximum conditions are to be 55% humidity / 80° Fahrenheit. See serial label (near main power switch) for NSF® Type of your case.
	Check that electric coil overflow condensate pan is properly plugged in or connected.

TROUBLESHOOTING (TO BE PERFORMED BY TRAINED SERVICE PROVIDERS ONLY), PAGE 2 OF 3

CONDITION	TROUBLESHOOTING
Fans Emit Excessive Noise	Check that the case is aligned, level and plumb.
	Check evaporator fans 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.
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), PAGE 3 OF 3

CONDITION	TROUBLESHOOTING
Case Lights Are Not Working	See TROUBLESHOOTING (TO BE PERFORMED BY STORE PERSONNEL) section in manual for most common troubleshooting solutions.
	 Check power. If power is not supplied to the case, facility may have faulty power distribution. If power is supplied to the case but lights are not energized, case's power supply may be faulty.
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 normally will return to normal.
	Check that case is not in sun or near a heat or air-conditioning vent.
	If case is located near outside doors, temperature fluctuation can hinder unit's ability to maintain temperature. Relocate case.
	Check that condenser coil has been cleaned.
	Check that magnetic air filter (attached to air intake grille) has been cleaned. See <i>CLEANING SCHEDULE (TO BE PERFORMED BY STORE PERSONNEL)</i> section in operating manual for instructions.
	Check return air grilles for obstructions.
	Check sight glass for flashing and/or low charge.
	Check set point temperature; it may be adjusted too high.
Digital Control Display Is Blank	Check that the MAIN power switch is on.
	Check the circuit breaker box for tripped circuits.
System Is 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.
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 specifics.

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.
	Perform sub-cooling check and verify that no contaminates 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.

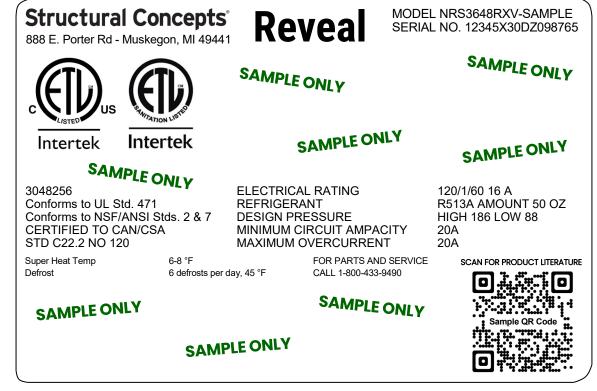
TROUBLESHOOTING (BY TRAINED SERVICE PROVIDERS ONLY) - EVAPORATOR SYSTEM

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 a. Poor thermal contact. b. Warm location.

SERIAL LABEL LOCATION & INFO LISTED / TECH INFO & SERVICE / REFRIGERATED CASES ONLY

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 shown below.
- For additional technical information and service, see the TECHNICAL SERVICE page in this manual for instructions on contacting Structural Concepts' Technical Service Department.



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

PROGRAMMABLE CONTROLLER (SELECT, CLICK ON OR SCAN QR CODE FOR INFORMATION)



STRUCTURAL CONCEPTS TECHNICAL SERVICE CONTACT INFORMATION & LIMITED WARRANTY

TECH SERVICE/WARRANTY CONTACT INFO: 1 (800) 433-9490 / EXTENSION 1 <u>DAYS/HOURS AVAILABLE</u>: 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.)

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.

