

Structural Concepts GHSSV856RLB.6611B Fusion Self Service High Volume Refrigerated Display Cases User Manual

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Structural Concepts®

Structural Concepts GHSSV856RLB.6611B Fusion Self-Service High Volume Refrigerated Display Cases



Product Information

The Fusion Self-Service High-Volume Refrigerated Display Cases (Remote Units) are manufactured by Structural Concepts Corp. The specific model numbers covered by this user manual are as follows:

- Model GHSSV856RLB.6611B
- Model GHSSV856RLB.6988D
- Model GHSSV356RLB
- Model GHSSV852RLB

The product is designed for the display of products in ambient store conditions, maintaining specific temperature and humidity ranges. The unit must be installed in compliance with all applicable NEC, federal, state, and local electrical and plumbing codes.

Important warnings and precautions

- Risk of electric shock. Disconnect power before servicing the unit.
- Keep hands clear of moving parts.
- Avoid touching hot surfaces.
- Do not operate the unit with the covers removed.
- This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Product Usage Instructions

Follow these instructions carefully for proper usage of the Fusion Self-Service High-Volume Refrigerated Display Cases:

1. Installation:

- Remove the unit from the skid.
- Remove the vertical lower front panels.
- Bolt and caulk the units together.
- Install glass shelving, electrical layout, LED drivers, and optional ballasts.
- Attach frame support rails and seal the unit to the floor.
- Connect refrigeration lines, stub-ups, drains, and wiring according to the provided diagrams.

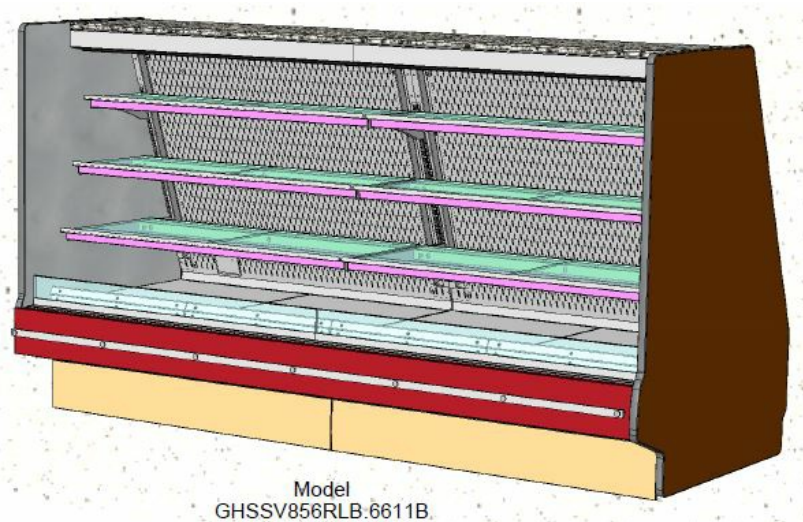
- Ensure proper ventilation for the display case.
- Perform display case start-up procedures.

2. Maintenance Fundamentals:

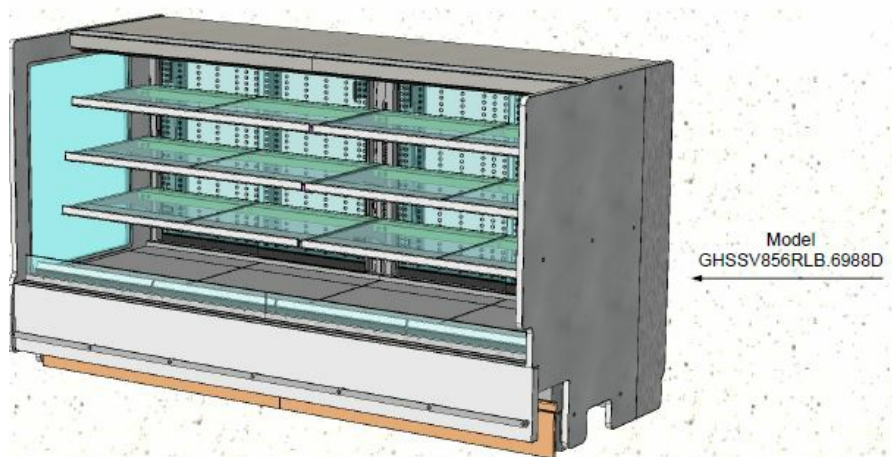
- Take care of LED lights, brackets, and shelves.
- Maintain the drain, TXV, refrigeration lines, and shut-off mechanisms.

Refer to the detailed instructions in the user manual for additional information and diagrams.

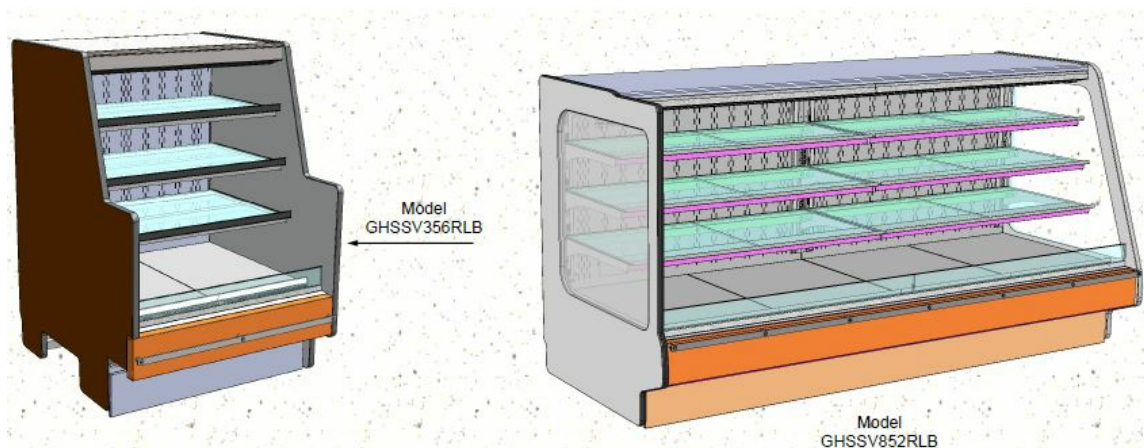
FUSION SELF-SERVICE HIGH-VOLUME REFRIGERATED DISPLAY CASES (REMOTE UNITS)



REV F DATE: 10/28/2022



1. YOUR SPECIFIC MODEL NUMBER IS LOCATED ON THE SERIAL LABEL. HOWEVER, LABEL LOCATIONS MAY VARY DEPENDING ON THE MODEL.
2. CASES SHOWN IN THIS MANUAL REFLECT FULL & OPEN END PANELS / STRAIGHT OR ANGLED BASES.



3. NOT ALL MODELS COVERED BY THIS OPERATING MANUAL ARE SHOWN ON THIS COVER SHEET.

OVERVIEW

- These Structural Concept cases are designed to merchandise packaged products at 41 °F (5 °C) or less product temperatures (unless custom cases with wire rack shelving).
- The product must be pre-chilled to 41 °F (5 °C) or less before being placed in merchandiser.
- Cases should be installed and operated according to this operating manual's instructions to ensure proper performance. Improper use will void the warranty.

TYPE 1 vs. TYPE 2 CONDITIONS

- This unit is designed for the display of products in ambient store conditions where temperatures and humidity are maintained within a specific range.
- Type 1 conditions: ambient conditions are to be 55% max. humidity and 75 °F (24 °C) max. temperature.
- Type 2 conditions: ambient conditions are to be 60% max. humidity and 80 °F (27 °C) max. temperature.
- If unsure if the unit is Type 1 or 2, see the tag next to the serial label. See SERIAL LABEL LOCATION & INFORMATION
- LISTED / TECH INFO & SERVICE section in this manual for sample serial labels).

COMPLIANCE

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

WARNINGS

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

PRECAUTIONS and WIRING DIAGRAMS

See the next page for PRECAUTIONS and WIRING DIAGRAM information.

COMPLIANCE

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

WARNING

Risk of electric shock. Disconnect power before servicing the unit.

CAUTION! More than one source of electrical supply is employed with units that have separate circuits. Disconnect ALL ELECTRICAL SOURCES before servicing. Hazardous moving parts. Do not operate the unit with the covers removed. Fan blades may be exposed when the deck panel is removed. Disconnect power before removing the deck panel.

WARNING

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

WARNING

Condensate pans and overflow condensate pans are HOT! Disconnect and allow to cool before cleaning or removing from the case

OVERVIEW / TYPE

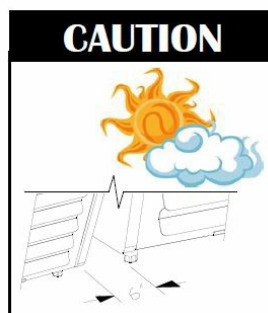
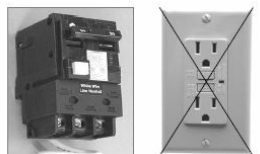
PRECAUTIONS

- The following are important precautions to prevent damage to the unit or merchandise. Read carefully!
- See the previous page for specifics on OVERVIEW,

CONDITION TYPE, COMPLIANCE, and WARNINGS.

WIRING DIAGRAM

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



REFRIGERANT DISCLOSURE STATEMENT

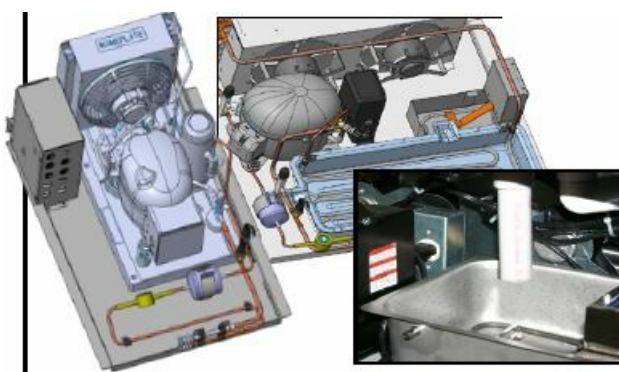
- This equipment is prohibited from use in California with any refrigerants on the “List of Prohibited Substances” for that specific end-use, in accordance with California Code of Regulations, title 17, section 95374.

- This disclosure statement has been reviewed and approved by Structural Concepts and Structural Concepts attests, under penalty of perjury, that these statements are true and accurate.



CAUTION! GFCI BREAKER REQUIREMENT

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



CAUTION! ADVERSE CONDITIONS / SPACING ISSUES

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

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

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

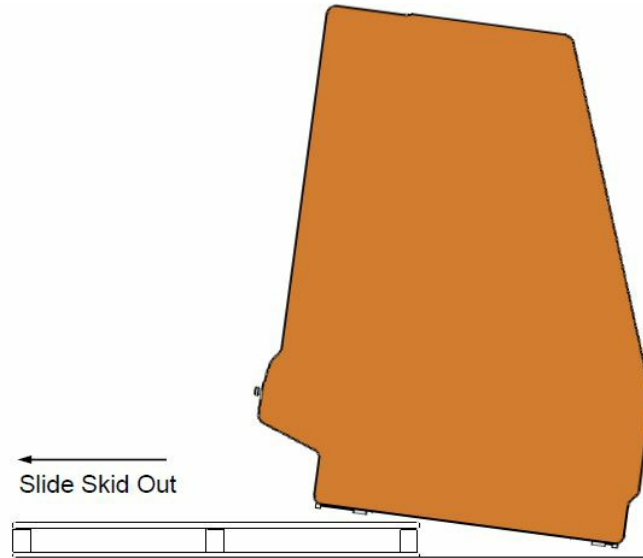
CAUTION! CHECK THE CONDENSATE PAN, ITS POSITION & PLUG! Water on flooring can cause extensive damage!

- Before powering up case, check that the condensate pan is positioned directly under case's condensate drain.

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

INSTALLATION

REMOVAL FROM SKID, REMOVING VERTICAL LOWER FRONT PANELS

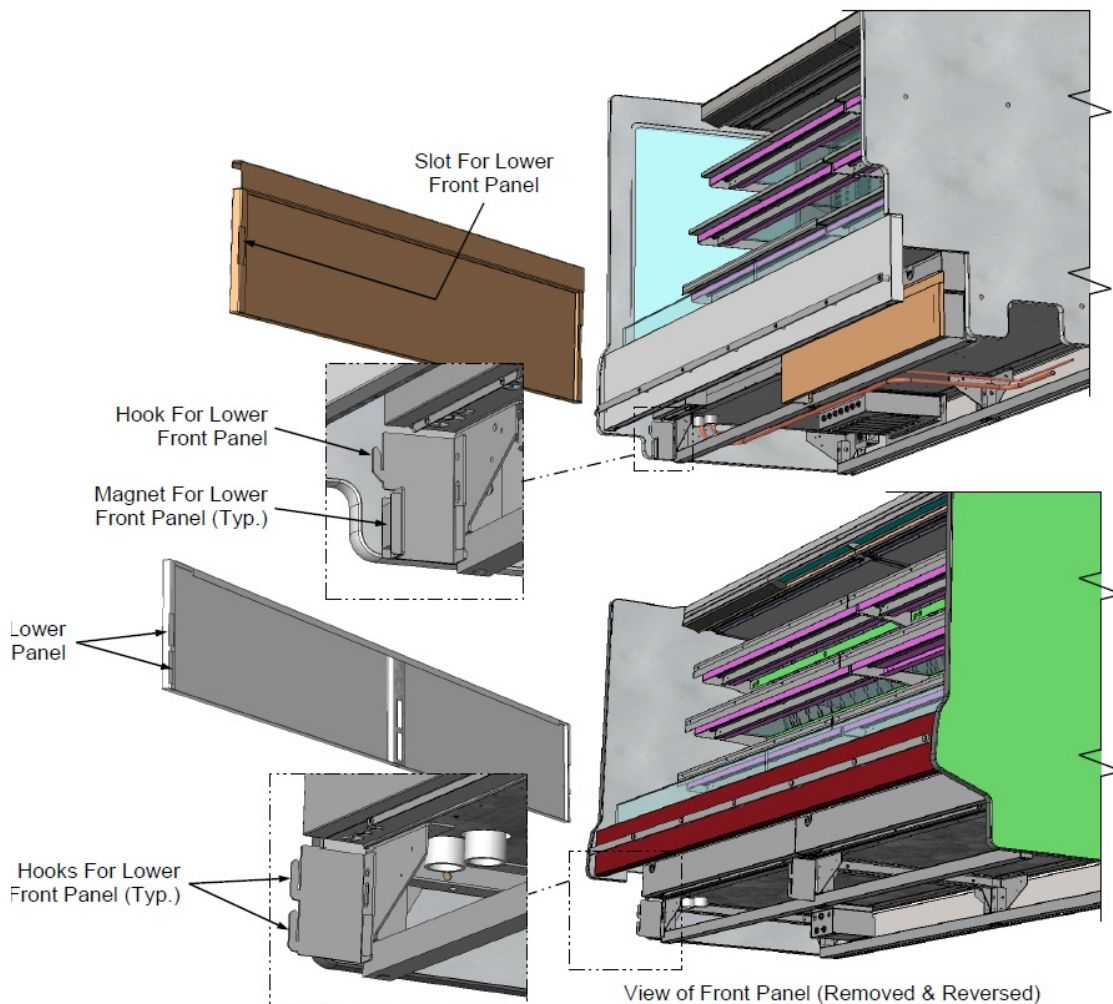


Remove From Skid (Rails or Levelers)

- Remove the shipping brace that may be securing the case to skid.
- Support case to prevent tipping.
- Caution! Frame support rails (or levelers) can be damaged if case hits floor with heavy force! Carefully slide unit to rear of skid and tip backward off skid.
- Illustration may not reflect every feature or option of your particular case.

Note: The case can be repositioned with a pallet truck when front lower panel is removed. Blocking may be necessary to obtain adequate height.

Removing Vertical Lower Front Panels



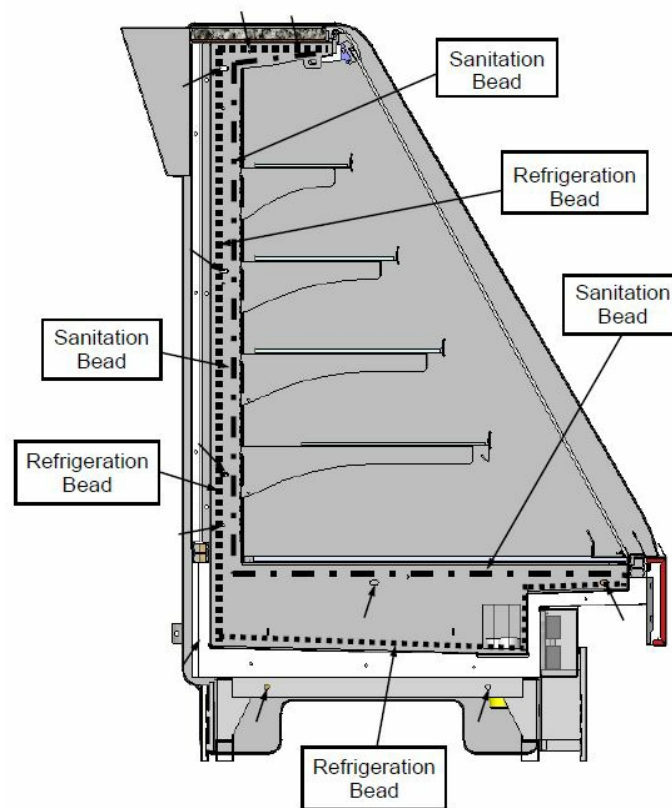
- No screw removal required: Simply lift lower front panel up (off hooks) and out (away from case).
- Certain models have hook/magnet/slot attachment method (shown at immediate right).
- Other models have just hook/slot attachment method (shown lower-right).

Bolting and Caulking Units Together

Follow these steps to assure a secure, level lineup.

- Begin all lineups leveling from the highest point of floor.
- After the 'first' case is level, apply industrial-grade butyl caulk on non-visible areas (at case end). Use industrial-grade silicone sealant on visible areas (at case end).
- Form Two (2) Caulk/Sealant Lines: (Sanitation and Refrigeration). See the illustration at mid-right for outline of caulk/sealant lines.
- Line up the 'second' case bolt-hole to bolt-hole to 'first' case.
- Using SCC-supplied bolts (found in hole locations OR in installation packet), insert bolts in bolt hole locations (shown at top-right). You may need to remove the decking to access lower bolt holes.
- Bolting and Caulking Units Together Follow these steps to ensure a secure, level lineup.
- Begin all lineups leveling from highest point of floor.
- After the 'first' case is level, apply industrial-grade butyl caulk on non-visible areas (at case end). Use industrial-grade silicone sealant on visible areas (at case end).
- Form Two (2) Caulk/Sealant Lines: (Sanitation and Refrigeration). See the illustration at mid-right for an outline of caulk/sealant lines.

- Line up 'second' case bolt-hole to bolt-hole to 'first' case.
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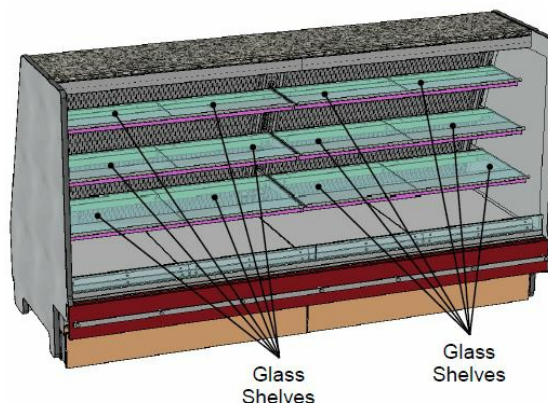


Note: The illustration shown may not exactly reflect every feature or option of your particular case. However, the general bead layout applies

Glass Shelving

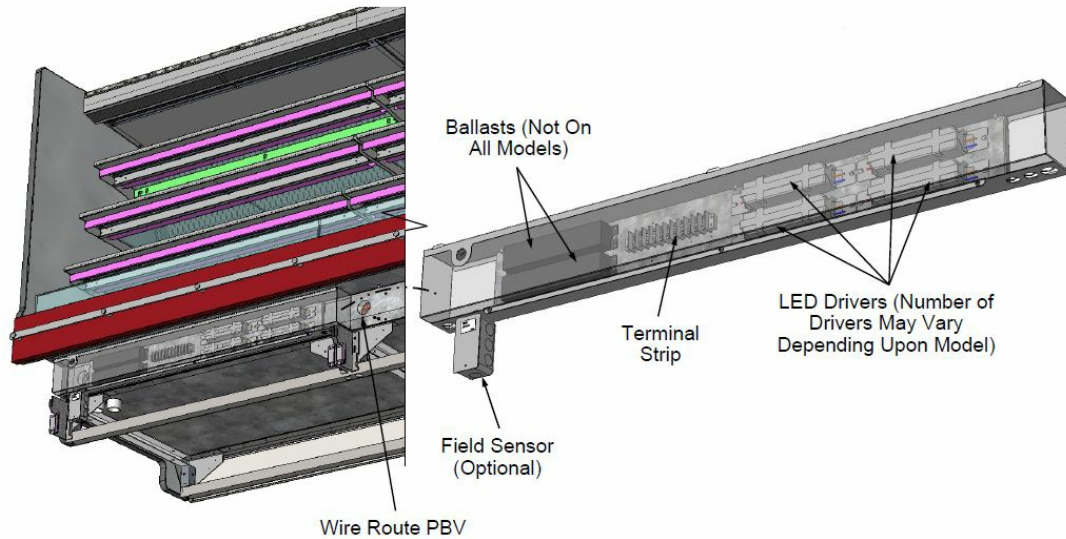
Certain models have glass shelving. Glass shelving will be packed separately for shipment.

- Caution! Carefully remove from packaging.
- Grasp firmly and carefully install.
- Caution! Check that plastic edging is intact before placing glass shelving onto brackets!
- Plastic edging must NOT be removed from glass shelves. Contact Structural Concepts for replacement edging (see TECHNICAL SERVICE CONTACT INFORMATION section).
- Check that glass shelving is in proper position before placing product in case.
- See illustrations at right showing both curved and flat front glass (optional).



Electrical Layout – Option #1

- LED Drivers (and/or Optional Ballasts)

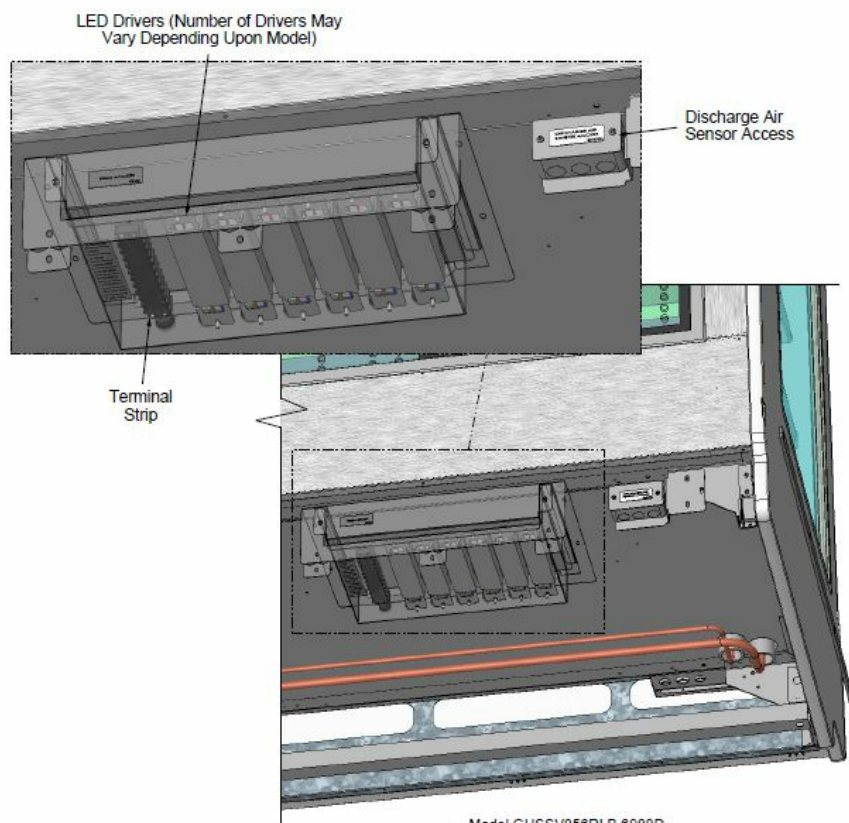


- Remove FRONT panel (lift up and off – no screw removal is required).
- Stub-up connections are in ballast box.
- Remove ballast box / LED driver box cover.
- Knockouts are on the underside of ballast box /
- LED driver box making electrical connections.
- Voltage rating is on serial label at case rear

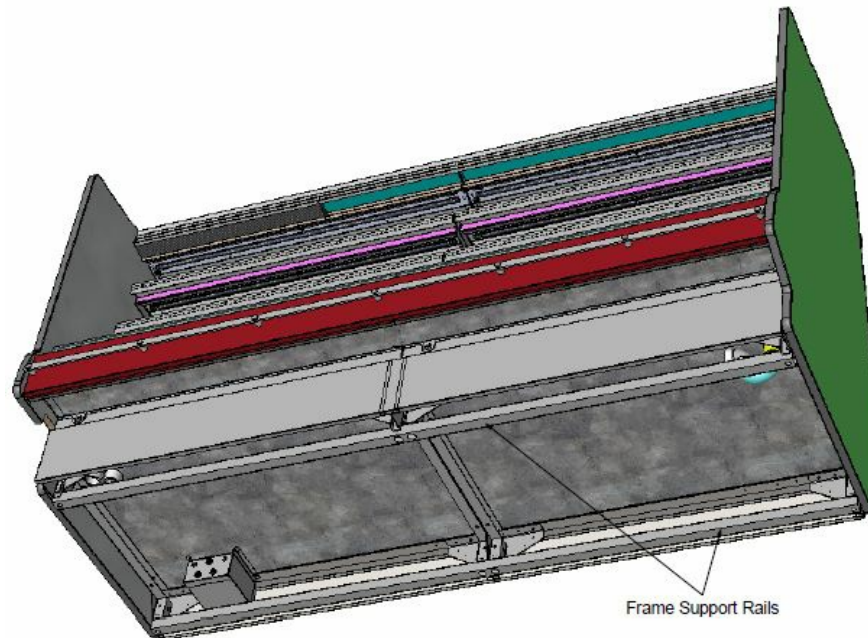
Note: Wiring process must be performed by certified electrician only.

Electrical Layout – Option #2

LED Drivers (and/or Optional Ballasts)

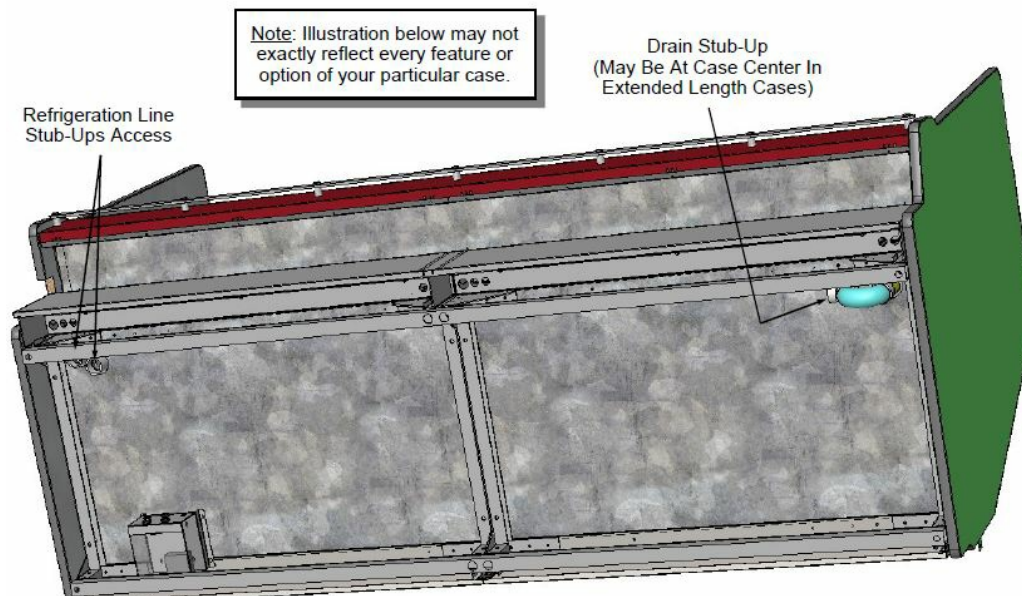


- Remove REAR panel (lift up and off – no screw removal is required).
- Stub-up connections are in LED driver box.
- Remove LED driver drawer screws and slide out box to access.
- Electrical Layout – Option #2
- LED Drivers (and/or Optional Ballasts)
- Remove REAR panel (lift up and off – no screw removal is required).
- Stub-up connections are in LED driver box.



- Remove LED driver drawer screws and slide out box to access.

Cases With Frame Support Rails: Shim



- Partially disassembled illustration at right shows case with frame support rails.
- Shims will be provided with all cases that have frame support rails.
- Use shims to level case.

- Note: After case is in position, it must be sealed to floor to prevent entry or leakage of liquid or moisture.

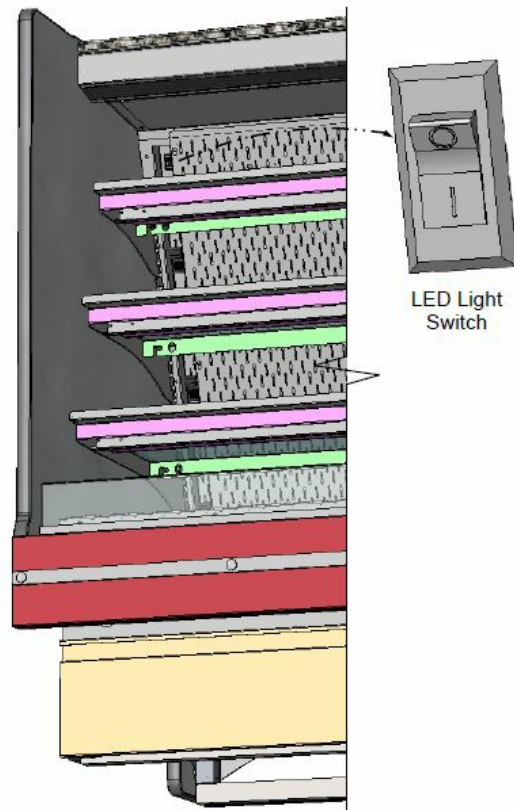
Refrigeration Line Stub-Up Connections (Remote Units)

- Remove front panel.
- Refrigerant stub-up access opening is at the front on the left hand side of the base (see illustration at top-right).
- Stub-up connections are accessed from inside the case.
- Remove interior decks.
- Remove fan shroud assembly.
- Line connections are in the tub front, on the left hand side
- Remove foam material from the entry hole provided in the tub drain trough.
- Route refrigerant lines through access hole.
- Run case-to-case connections through cutouts in base.
- Sweat the high and low-pressure connections.
- Fill access hole with suitable filler to insure the watertight integrity of tub.
- The illustration at top-right may not reflect every feature or option of your particular case.

Refrigeration Drain Connection (Remote Units)

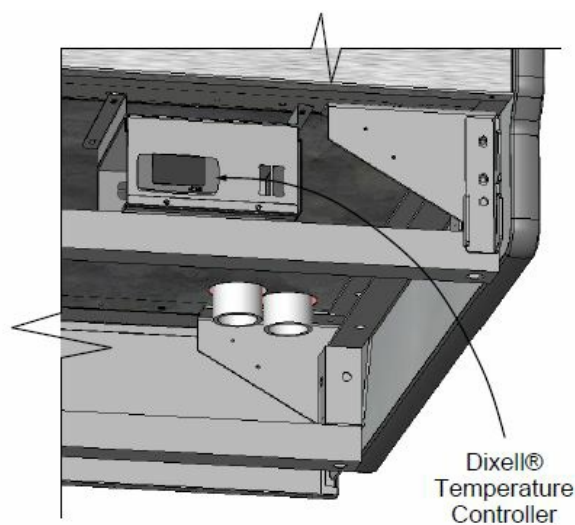
- Depending upon drain access needs, either front or rear panel may be removed to gain access to drain stub-up.
 - 1.5" male PVC stub-up connection is under the case on the right hand side.
 - Drain stub-up may be at case center in extended-length cases.
 - Connect tub drain to floor drain. Maintain 1/4"-fall per foot to provide proper drainage.
 - The illustration at top-right may not reflect every feature or option of your particular case.
10. Electrical 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 condenser fan cover, ballast box, raceway cover, or other related location.

Display Case Start-Up Case



- Remote cases will power-up when properly field wired (or plugged in).
- After case is powered up, lift curved or flat front glass by grasping lift handle and raising (see illustration at right).
- Note: Illustration at right reflects flat front glass (optional). Yours may have curved front glass.
- Lift deck to check that coil fans are running.
- Evaporator coil fans should turn on.

Lights



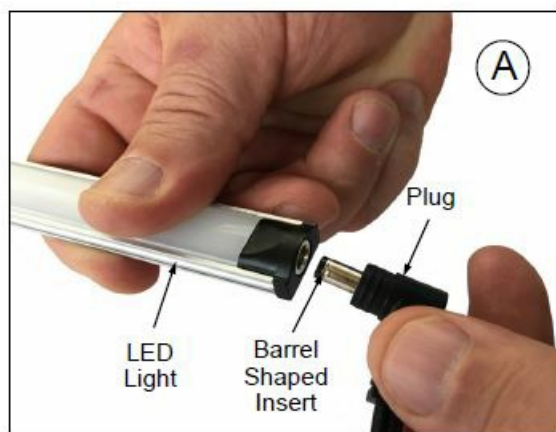
- Turn lights on.
- Remote Units: Switch is likely at rear plenum. If not, there may be NO SWITCH (lights will come on when case powers up).
- All lights should come on at the same time. If bulbs are fluorescent, first time lighting may require a short warm-

up period. LEDs have no warm-up period.

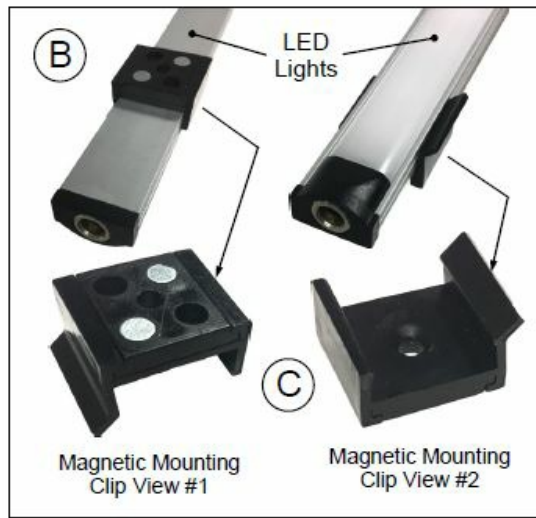
- Slightly dim / flickering of new bulbs is normal. If lights do not turn on, check raceway plugs.
- Lighting is wired in series so all lights must be plugged in or receptacles capped for case lights to be on. See illustration at right.
- LED Lights may have single or dual rows (depending upon model).
- Note: If lights do not come on, check that plug is properly inserted into socket.
- Temperature Controller (Certain Remote Units)
- Check that the compressor symbol light is on.
- Compressor will likely be identified with:
- After case has run for a few minutes, check that the temperature starts to drop.
- If the temperature controller does not begin cooling (in a few minutes) see the temperature controller section in this operating manual for instructions.
- Remote units (without temperature controller on case): Verify that refrigeration requirements listed on serial label (found on the case) are being met.
- Saturated Suction Temperature (Remote)
- See serial label on case for suction temperature requirements and BTU requirements.
- See serial label on case for defrost schedule and temperature termination parameters.

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

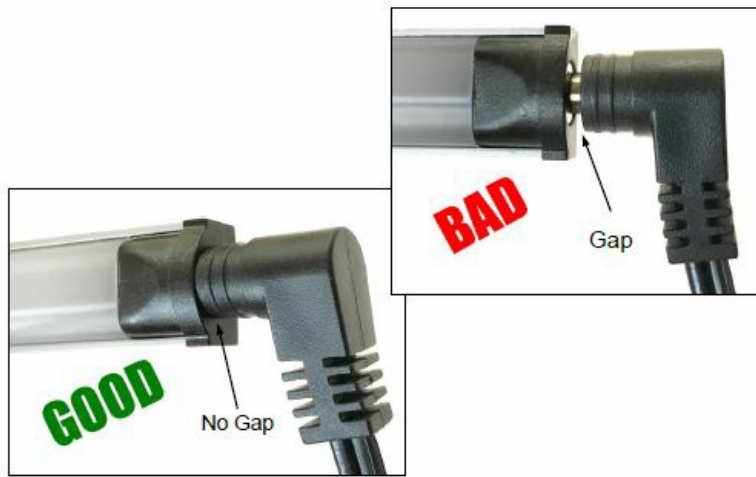
Disconnect plug from LED light

- Using both hands, grasp LED light assembly (with its magnetic mounting clips). Pull downward and off its shelf (or header).
- 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 the 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.

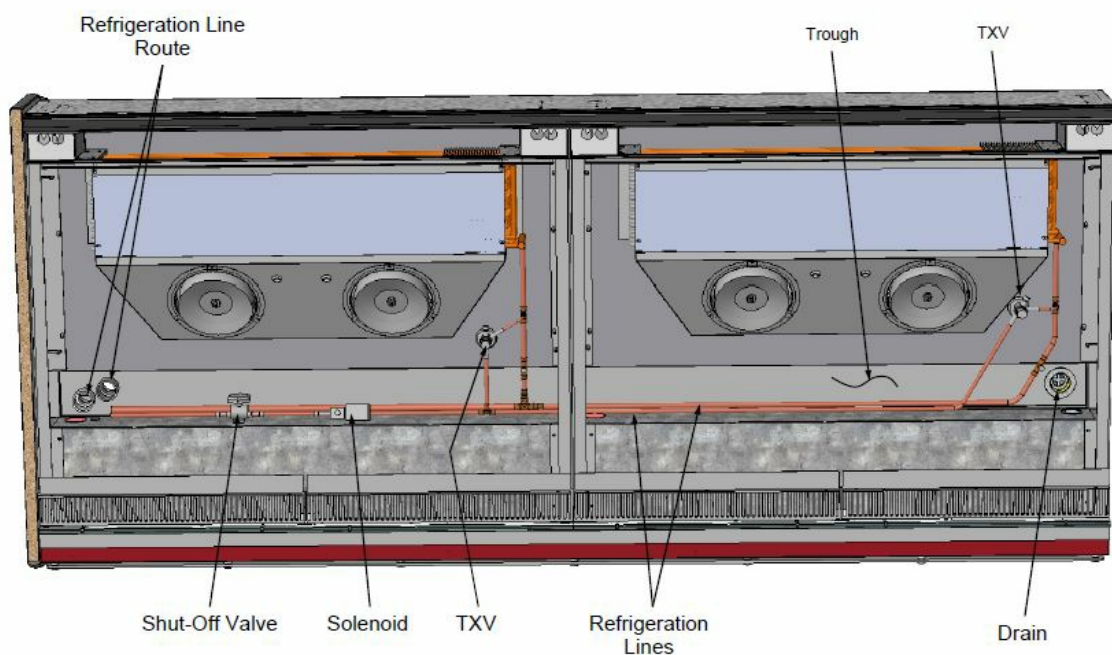
Bracket Retainer Removal



- To remove brackets, it may be necessary to remove nylon shipping bracket retainers.
- Pliers will be required to accomplish this task. If glass, remove shelf.
- For lighted shelving, unplug the light cord.
- Remove rear shelf support.
- Remove shelf light cover from brackets.
- Lift brackets up and out

Drain and Expansion Valve Access

- The drain and expansion valve are both accessible from the front of the case.
- Unplug the fans (one plug per side) and remove the fastener from the access panel in the front right (or left) corner of the unit (as shown in the illustration at right).
- The drain, thermostatic expansion valve (TXV) and shut-off valve (optional, depending upon model) are directly below the access panel.
- See illustration below for partially disassembled model depicting shut-off valve, drain, refrigeration lines, TXV, etc.

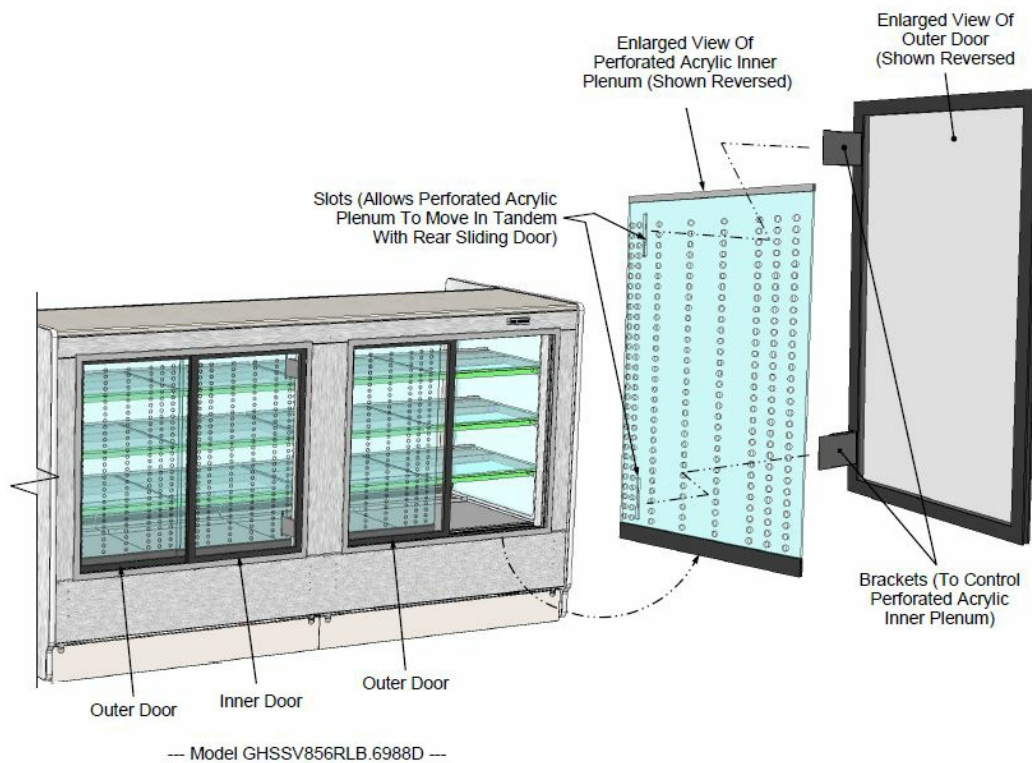


Removing Rear Doors

- Note: Doors are not interchangeable.
- There is an outer and inner door.
- Outer door is the right hand door (at case rear). If removing doors, remove outer door must be removed first.
- Inner door is left-hand door (at case rear).
- Both inner and outer doors can be removed by sliding to center of case, lifting up and out.

Perforated Acrylic Plenum

- Each door has a bracket that is inserted in a perforated acrylic plenum slot.
- When either rear sliding door is removed, its bracket is also removed (because it is attached).
- Perforated acrylic plenum may then be removed by sliding to center of case, lifting up and out.
- See illustrations below.



GENERAL CLEANING (TO BE PERFORMED BY STORE PERSONNEL)

AREA	FREQ.	INSTRUCTIONS
Exterior	Daily	<u>Acrylic (Air Deflectors and Rear Perforated Plenums)</u> : Clean acrylic surfaces with a mild soap and water solution and a soft cloth. <i>Caution! Never use ammonia-based cleaners on acrylic. Incorrect cleaning agents or abrasive cleaning cloths cause surface to 'cloud' over time.</i>
	Daily	<u>CaesarStone® Quartz Solid Surface</u> : See next page.
	Daily	
	Daily	<u>Shelves/Decking</u> : Decking can be cleaned with a warm soap and water solution and soft cloth.
	Weekly	<u>End Panels, Front Panel, Toe-Kick, etc.</u> : Wipe off all surfaces with warm water and mild soap solution and non-abrasive cloth.
	Monthly	<u>Under Case Cleaning</u> : Remove either front or rear toe-kick. Vacuum under case to remove dust and dirt that may collect under case.
Interior	Daily	<u>Glass Shelving</u> : Clean glass shelves with a household or commercial glass cleaner.
	Weekly	<u>Shelving Brackets / Air Return Grilles / Decking</u> <ul style="list-style-type: none"> · Wipe off shelving brackets, air return grilles and decking with moist cloth. · Shelving brackets can be removed for more thorough cleaning. · Decking is NOT to be removed by store personnel.
	Monthly	<u>Condenser Coil</u> : Vacuum or brush grille condenser coil at case front. Use metal or fiber brush to remove dust and dirt that can collect on condenser coils. Be careful not to damage the fins on the coil. See <i>INSTALLATION</i> section in manual for side panel removal information.

CaesarStone® Care & Maintenance

TAKING CARE OF YOUR QUARTZ SURFACE

CaesarStone quartz surfaces blend modern sophistication and timeless luxury with unbeatable strength and durability. The ever-lasting finish requires only simple and routine care to maintain its good looks.

MINIMAL MAINTENANCE

Virtually maintenance-free, CaesarStone's hard, non-porous surfaces require no sealing to renew the luster and are simple to clean. In most cases, dip a clean, soft cloth into a solution of water and soap (or mild detergent) solution and wipe away dust, smudges and residue; then rinse with clean water to remove residue. This simple treatment is usually enough to keep your CaesarStone countertop looking like new. If necessary, use a non-abrasive soft soap along with a non-scratch or delicate scrub pad. Afterward, thoroughly rinse with clean water to remove residue.

STUBBORN STAINS OR DRIED SPILLS

If needed, apply a non-abrasive household cleaner (a non-abrasive cleaner will not dull the surface shine); rinse to remove residue. To remove adhered material such as food, gum, nail polish or even dried paint, first scrape away excess material with a plastic putty knife and then use a damp cloth to remove any marks or residual dirt. For extra-stubborn stains, use a no-scratch Scotch-Brite® pad along with the non-abrasive cleaner recommended by your local CaesarStone® distributor.

HEAT TOLERANCE

Caesarstone is more heat resistant than other stone surfaces including most granite, marble and limestone; it is not affected by temperatures lower than 300 °F (149 °C). However, like all stone material, Caesarstone can be damaged by sudden and rapid temperature changes. Therefore, do not place hot pots or pans directly placed on the surface. Instead place a hot pad or trivet on the surface under cooking units such as electric frying pans, crock pots, or roaster ovens.

SCRATCH RESISTANT

CaesarStone is a highly scratch-resistant surface; however avoid abuse of the surface by refraining from using sharp objects such as sharp knives or screwdrivers directly onto the surface.

CLEANING AGENTS TO AVOID

Routine Care	<p><u>For Daily, Routine Cleaning:</u></p> <ul style="list-style-type: none">· Natural quartz (and other stone) surfaces require very little maintenance. Simply wipe surface with soap and warm water on a regular basis to maintain its shine. Any pH balanced general-purpose household cleaner may be used.
Chemicals To Avoid	<p><u>Chemicals To Avoid:</u></p> <p>Avoid exposing natural quartz (and other stone) surfaces to strong chemicals and solvents.</p> <ul style="list-style-type: none">· Items to avoid include: nail polish remover, permanent markers or inks, oil soaps, and furniture cleaners or paint strippers that contain trichlorethane or methylene chloride.· Also avoid exposing surface to chemicals with high alkaline/PH levels, i.e., oven cleaners. <p>Caution must be used with the following products:</p> <ul style="list-style-type: none">· Avoid using products containing oils or powders as may leave a residue.· Avoid repetitive use of abrasive scrubs/cleaners as they may dull the finish.· Avoid oven/grill cleaners as they may discolor the finish.· Avoid exposure to extreme heat as it may damage the finish. <p>Apparent stains like coffee, food, makeup, etc.:</p> <ul style="list-style-type: none">· Apply the appropriate cleaner with a paper towel and wipe. If necessary, the area may be soaked with pads of paper towels from 3-10 minutes;· Scrub the area. Rinse thoroughly. Dry thoroughly.

Difficult Spills	<p><u>For Difficult Spills:</u></p> <p>To remove difficult spills on natural quartz (and other stone) surfaces, follow these guidelines.</p> <ul style="list-style-type: none"> · Wipe the surface with warm water and soap. If needed, apply a common household cleaner. · For stains that harden as they dry (such as food, gum, nail polish, and paint), remove by gently scraping off of surface (using a blade or putty remover), and then clean using warm water and soap. Gray marks left by the razor, can be wiped away with soap and water. · Natural quartz (and other stone surfaces) are resistant to damaging chemicals. Difficult spots may be treated with one of the cleaners listed below: <p>> Rubbing Alcohol > Ammonia > Vinegar</p> <p><u>Note:</u> Allow the desired cleaner to sit for up to 10 minutes. Scrub and rinse thoroughly. Dry thoroughly.</p>
Cleaning Cases With Silicone	<p><u>Cleaning Cases With Silicone In And Around Surfaces:</u></p> <ul style="list-style-type: none"> · Cases with silicone between inserts and the surrounding natural quartz (and other stone) surfaces should be cleaned with any of the following: <p>> Soapy water (e.g., Dawn® dish soap and warm water) > Simple Green® All Purpose Cleaner > Ammonia</p> <p>> Rubbing Alcohol > Vinegar > Any solution containing more than 90% IPA (iso-propyl alcohol)</p> <ul style="list-style-type: none"> · <i>Solutions and cleaners to AVOID while cleaning cases with silicone in and around natural quartz (and other stone) surfaces include the following: > Acetate > Lacquer Thinner > Mineral Spirits</i> <p><i>> Paint Thinner > Windex® Without Ammonia (Windex® WITH Ammonia is Acceptable) > Formula 409® > Fantastik® > Bleach > Citrus cleaners (or Cleaners With Citrus in it)</i></p>
Extreme Heat Protection	<p><u>Extreme Heat Protection:</u></p> <ul style="list-style-type: none"> · Natural quartz (and other stone) surfaces are extremely resistant to heat, and can withstand moderately high temperatures for brief periods of time without being damaged. · Although natural quartz (and other stone) surfaces are more heat resistant than any many others, ALL stone surfaces (including quartz) can be damaged by sudden and extreme temperature changes, especially near the edges. For this reason, always use a trivet or a hot pad to protect surfaces from extreme heat.
Extreme Scratch Protection	<p><u>Extreme Scratch Protection:</u></p> <ul style="list-style-type: none"> · Although natural quartz (and other stone surfaces) are extremely scratch resistant, surfaces should be protected by using a cutting board to avoid damage to knives.

CONDITION	TROUBLESHOOTING
Case Not Lining Up	See INSTALLATION section in this manual for instructions on properly aligning case (alongside other cases) and shimming rails.
Door Is Loose, Wobbles Or Falls Out Of Door Frame	Door track (in door frame) or door glides (on door) may be wearing out or malfunctioning. See STRUCTURAL CONCEPTS TECHNICAL SERVICE CONTACT INFORMATION in manual to order replacement parts.
Water Is On The Floor	Call service provider.
Fan Emits Excessive Noise	Call service provider.
Case Lights Are Not Working	Check that light switch is in the <i>on</i> position.
	Check that ALL of the light cords and plugs are properly connected. See MAINTENANCE FUNDAMENTALS – LED LIGHTS section in manual.
	If case lights still do not come on, call service provider.
Case is Not Holding Proper Temperature	If a large amount of warm product was added to the case, it will take time for the temperature to adjust. Product must be pre-chilled before placing in case.
	Check that the case is not in the sun or near a heat or air-conditioning vent. See OVERVIEW / TECHNICAL INFORMATION / WARNINGS section in this manual for specifics.
	Check that case is NOT located near outside doors as 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.

AREA	FREQUENCY	INSTRUCTIONS
Tub Area (Under Decking)	Quarterly	<p><u>Tub Area (Evaporator Coil, Drain, Fans, Brackets, Fan Shroud, etc):</u></p> <p><i>Caution! Disconnect power from the case before cleaning tub, coil, fan, motor and drain area!</i></p> <ul style="list-style-type: none"> Use vacuum to clean entire area. After vacuuming, clean area with warm water, clean cloth, and mild soap solution. Remove any debris that may clog drain. Wipe down fan blades, motors and brackets and fan shroud with moist cloth.

CONDITION	TROUBLESHOOTING
Case Not Lining Up	See INSTALLATION section in this manual for instructions on properly aligning case (alongside other cases) and adjusting levelers.
Water Is On The Floor	<p>Caution! Water on flooring can cause much damage! Until cause is determined (and repaired), follow these procedures:</p> <ul style="list-style-type: none"> · Use wet-dry vacuum (or mop & bucket) to remove standing water. · Use 'catch pans' for water to drain into. Swap out regularly until case has completely drained.
	Check that the drain trap is free of debris.
	Check store conditions. To prevent condensation in Type 1 environments, maximum conditions are to be 55% humidity / 75 °Fahrenheit. For Type 2 conditions, maximum conditions are to be 60% humidity / 80 °Fahrenheit. See serial label (at case rear near main power switch) for type of case.
Fan Emits 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 (or case is properly connected to power source).
	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.

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Case Not Lining Up	See INSTALLATION section in this manual for instructions on properly aligning case (alongside other cases) and adjusting levelers.
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	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 (or case is properly connected to power source).
	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.

- It's important to be aware that like any other surface, Caesarstone can be permanently damaged if exposed to

strong chemicals and solvents that can damage its physical properties.

- Never clean your CaesarStone surface with products that contain Trichloroethane or Methylene chloride, such as paint removers or strippers.
- Avoid the use of highly aggressive cleaning agents such as oven/grill cleaners and dishwasher polishing agents that have high alkaline/pH levels (pH 8.5 or higher).
- Products containing oils or powders may leave a residue and should be rinsed off thoroughly. Should your surface accidentally be exposed to any of these damaging products, rinse immediately with clean water to neutralize the effect.

Serial Label Location & Information Listed / Technical Information & Service



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

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

Reveal
Blend
Harmony
Impulse
Oasis

Addenda
Grocerant
Fusion

MODEL NRS3648RXV-SAMPLE
SERIAL NO. 12345X30DZ098765


Intertek Intertek

SAMPLE ONLY

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

ELECTRICAL RATING
REFRIGERANT
DESIGN PRESSURE
MINIMUM CIRCUIT AMPACITY
MAXIMUM OVERCURRENT


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

Super Heat Temp
Defrost

6-8 °F
6 defrosts per day, 45 °F

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

SCAN FOR PRODUCT LITERATURE


Sample QR Code

SAMPLE ONLY

SAMPLE ONLY

TYPE II DISPLAY REFRIGERATOR: THIS EQUIPMENT IS INTENDED FOR USE IN AN AREA WHERE THE ENVIRONMENTAL CONDITIONS ARE CONTROLLED AND MAINTAINED SUCH THAT THE AMBIENT TEMPERATURE DOES NOT EXCEED 80 °F (27 °C).

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

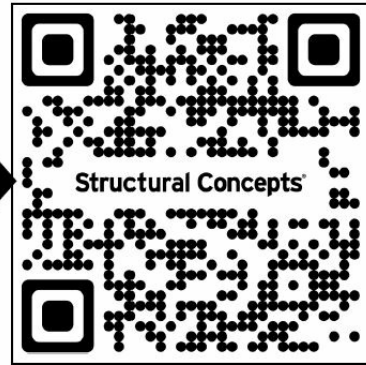
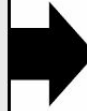
MONDAY – FRIDAY (CLOSED HOLIDAYS)

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.)

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

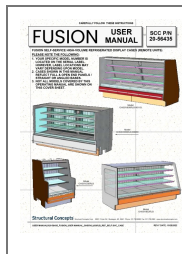
- > If Viewing This Document on Smart Phone, Tablet or Computer, Select/Click On The QR Code at Right.
- > If Viewing This Document In Print (Hard Copy), Scan The QR Code at Right With Your Smart Phone or Tablet.



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

- If Viewing This Document on a 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.

Documents / Resources



[Structural Concepts GHSSV856RLB.6611B Fusion Self Service High Volume Refrigerated Display Cases](#) [pdf] User Manual

GHSSV856RLB.6611B Fusion Self Service High Volume Refrigerated Display Cases, GHSSV856RLB.6611B, Fusion Self Service High Volume Refrigerated Display Cases, Volume Refrigerated Display Cases, Refrigerated Display Cases

References

- [P65Warnings.ca.gov](https://www.p65warnings.ca.gov/)
- [SC Delivering Fresh. Always. | Structural Concepts](#)
- scnv.io/6nkQ