



Your Solutions Partner

Installation and Operation Manual

HOT/FROST®

Models:

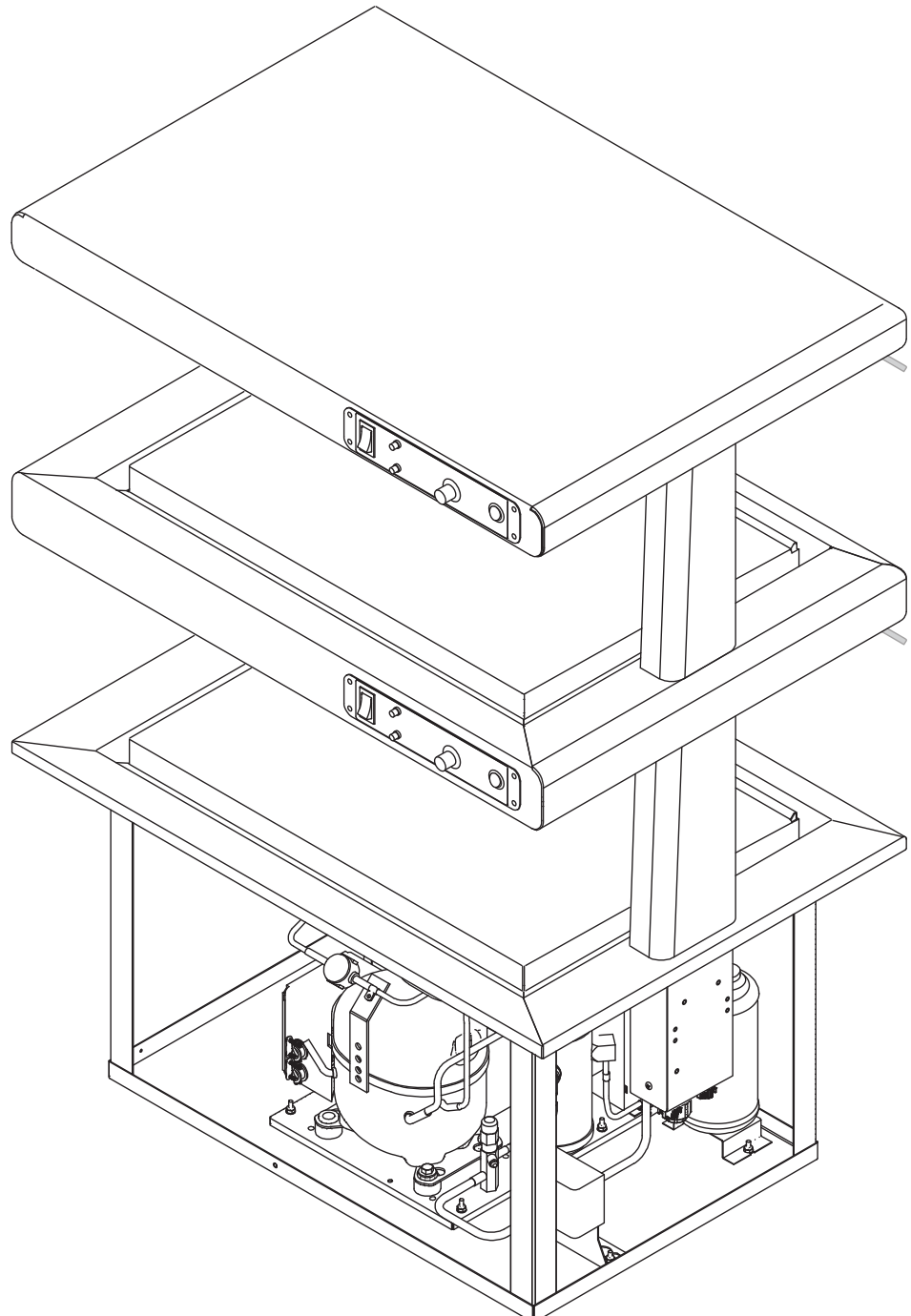
HF35-2

HF48-2

HF50-2

HF64-2

HF91-2



CAUTION: Please read this manual completely before attempting to install, operate or service this equipment



WARNING for CA residents: go to www.dukemfg.com/prop65 for prop 65 warning

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Congratulations on the purchase of your new Hot/Frost unit. Please read this manual completely before installing or working on your new unit.

IMPORTANT SAFETY INSTRUCTIONS

Throughout this manual, you will find the following safety words and symbols that signify important safety issues with regards to operating or maintaining the equipment.



Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



Indicates Important Information



Indicates electrical shock hazard which, if not avoided, could result in death or serious injury and/or equipment damage.



Indicates hot surface which, if not avoided, could result in minor or moderate injury.

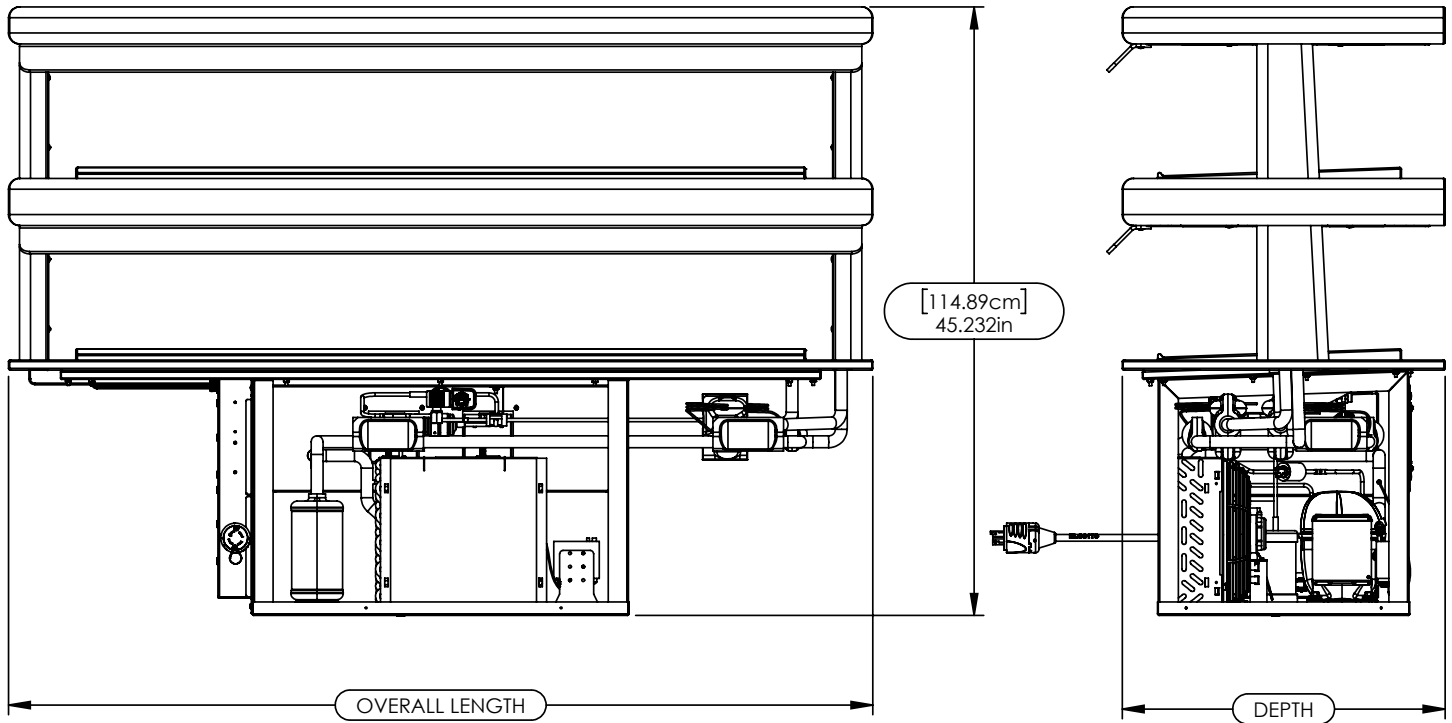
In addition to the warnings and cautions in this manual, use the following guidelines for safe operation of the unit.

- Read all instructions before using equipment.
- For your safety, the equipment is furnished with a properly grounded cord connector. Do not attempt to remove or disconnect the grounded connector.
- Install or locate the equipment only for its intended use as described in this manual.
- Do not use corrosive chemicals on this equipment.
- Do not operate this equipment if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
- This equipment should be serviced by qualified personnel only. Contact the nearest Duke authorized service facility for adjustment or repair.
- Do not block or cover any openings on the unit.
- Do not immerse cord or plug in water.
- Keep cord away from heated surfaces.
- Do not allow cord to hang over edge of table or counter.

The following warnings and cautions appear throughout this manual and should be carefully observed.

- Turn the unit off, disconnect the power source and allow unit to cool down before performing any service or maintenance on the unit.
- The procedures in this manual may include the use of chemical products. You must read the Material Safety Data Sheets before using any of these products.
- The unit should be grounded according to local electrical codes to prevent the possibility of electrical shock. It requires a grounded receptacle with dedicated electrical lines, protected by fuses or circuit breaker of the proper rating, in accordance with all applicable regulations.
- Disposal of the unit must be in accordance with local environmental codes and/or any other applicable codes.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

SPECIFICATIONS

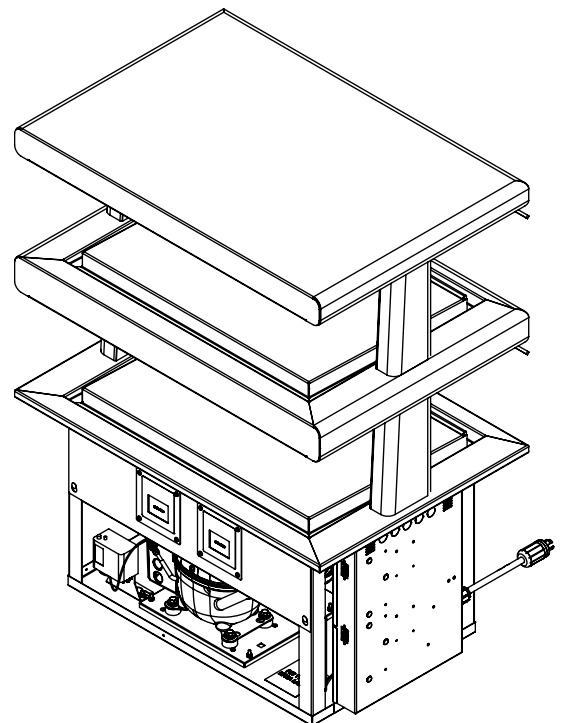


DIMENSIONS:

Model	Overall Length		Cutout Length		Overall Depth		Cutout Depth	
	in	cm	in	cm	in	cm	in	cm
HF35-2	35.0	88.9	33.375	84.77	24.00	60.96	20.813	52.87
HF48-2	48.125	122.24	46.625	118.43	32.00	81.28	28.813	73.19
HF50-2	50.125	127.32	48.5	123.19	24.00	60.96	20.813	52.87
HF64-2	64.25	163.20	62.625	159.07	24.00	60.96	20.813	52.87
HF91-2	92.875	235.90	91.25	231.77	24.00	60.96	20.813	52.87

ELECTRICAL SPECIFICATIONS: 120-208V, 1P, 60Hz

Model	AMPS	Refrig. R448A	HFL -208	FOL-120
			NEMA	NEMA
HF35-2-HFL-HFL	8.2	46.5oz	L14-20P	5-15
HF35-2-FOL-FOL	6.0	46.5oz	L14-20P	5-15
HF48-2-HFL-HFL	12.5	48.5oz	L14-20P	5-15
HF48-2-FOL-FOL	6.5	48.5oz	L14-20P	5-15
HF50-2-HFL-HFL	13.0	46.5oz	L14-20P	5-15
HF50-2-FOL-FOL	6.5	46.5oz	L14-20P	5-15
HF64-2-HFL-HFL	19.4	48.5oz	L14-30P	5-15
HF64-2-FOL-FOL	6.9	48.5oz	L14-30P	5-15
HF91-2-HFL-HFL	26.8	30.5oz	L14-30P	5-15
HF91-2-FOL-FOL	12.9	30.5oz	L14-30P	L14-30P



UNIT INSPECTION AND UN-CRATING

CAUTION Installation of this unit requires more than one person.

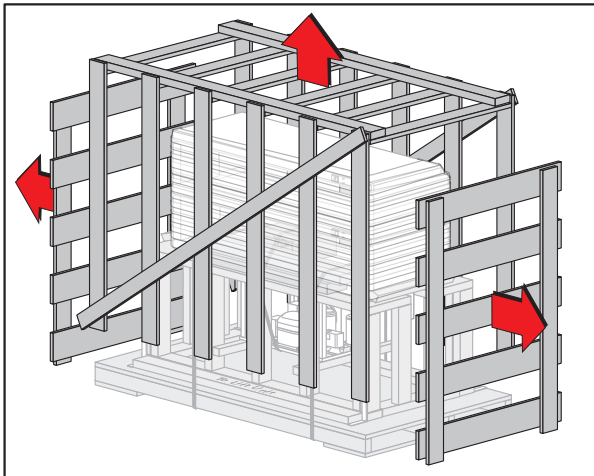
INSPECTING UNIT

- Inspect the shipping carton and/or container, carefully noting any exterior damage on the delivery receipt
- Crating has **SHOCK WATCH** labeling to indicate improper handling of unit.
- Note any damage not evident on the outside of the shipping container (concealed damage). Contact the carrier immediately and file a damage claim with them.
- Save all packing materials when filing a claim. Freight damage claims are the responsibility of the purchaser and are not covered by the warranty.
- Report any dents or breakage to source of purchase immediately.
- **Do not attempt to use unit if damaged.**

UN-CRATING

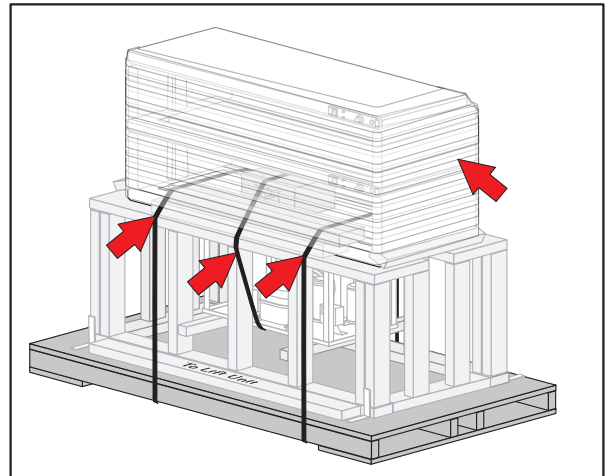
Step 1

Remove all crating material from around the unit.



Step 2

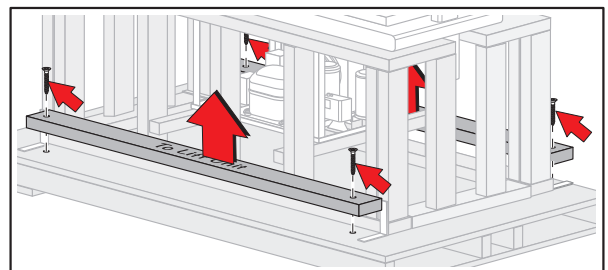
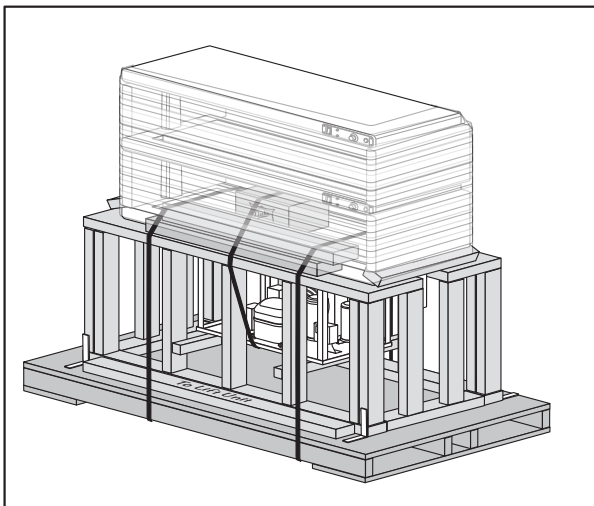
Remove outer protective shrink wrap, cut banding and all packing material.



CAUTION Do not remove any support system from under the unit. Doing so could result in damage to unit and/or personal injury.

Step 3

Remove the two (2) wood screws holding two (2) 2x4 boards marked, "TO LIFT UNIT". These boards will be used to remove unit from crate.

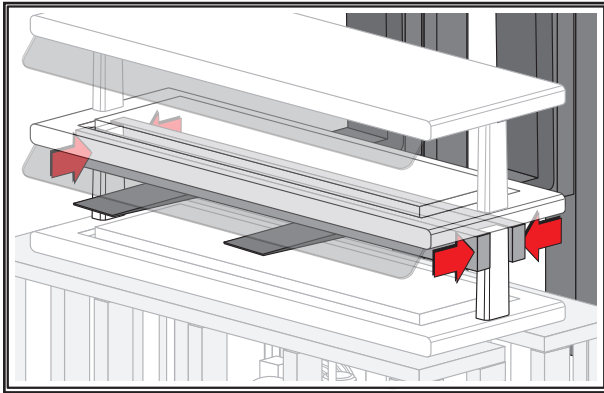


UN-CRATING UNIT - continued

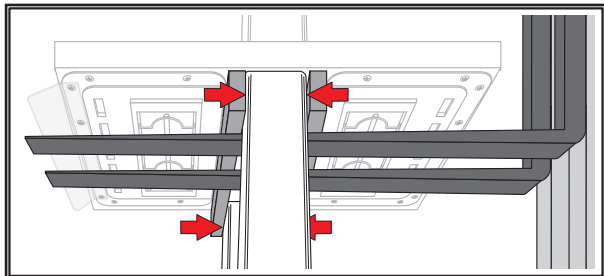
Step 4

Position lifting forks under the middle shelf. Position the two (2) 2x4 boards the length of the unit one on each side of the pylons.

CAUTION NOT following this step will cause damage to the sneeze guards and heaters on the unit.



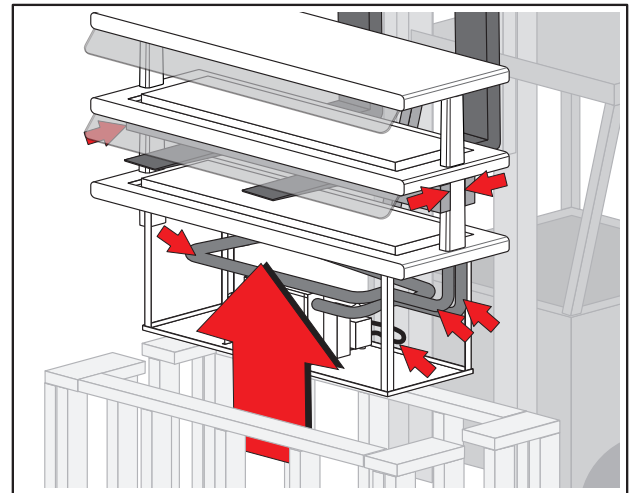
CAUTION If boards are not up against pylons damage to light or heaters could result.



Step 5

Making sure the boards are held against the pylons slowly lift the unit from the crate.

CAUTION Be cautious of the power cord and the refrigerant lines at each end of the unit.

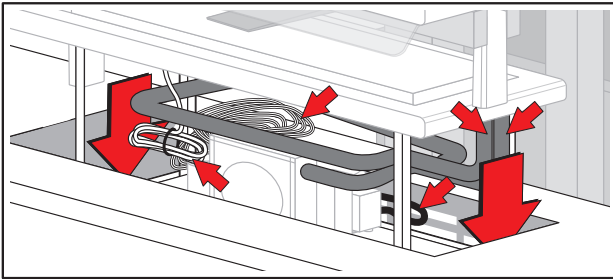
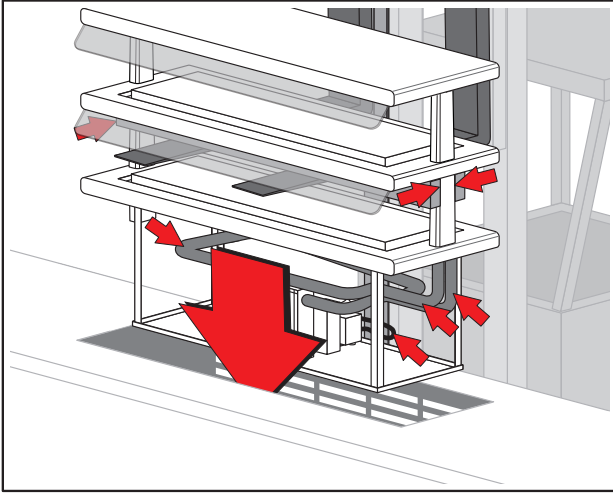


INSTALLING UNIT

Step 1

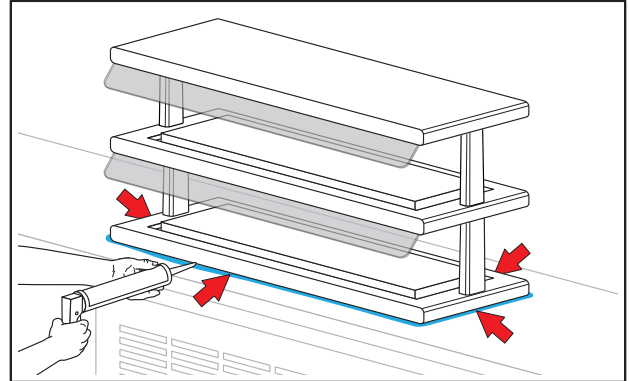
In the same manor slowly lower the unit into the counter.

NOTE: Be cautious of the power cord and the refrigerant lines at each end of the unit.

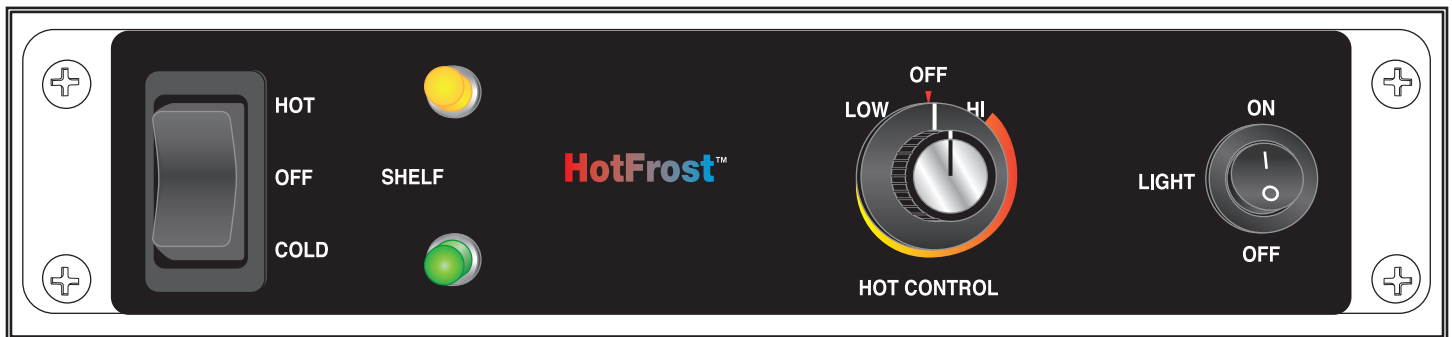


Step 2

Make sure unit is set square in counter, then run a small bead of silicone around counter top and base of unit.



OPERATIONS - Control Panel



HOT SHELF

- Flip switch to HOT
- The amber light will come on
- Turn the Hot Control Knob to the desired level of heat
- Unit will begin to heat

COLD SHELF

- Flip the switch to COLD
- The green light will come on
- Top will begin to frost over

LIGHTS

- For lights flip switch to ON

CLEANING

⚠ WARNING

- **Turn OFF power switch and disconnect unit from power source before performing any cleaning, adjustments or maintenance.**
- **DO NOT submerge or saturate with water. Unit is not waterproof.**
- **This unit is not “jet proof” construction. Do not use jet clean spray to clean this unit.**
- **Do not stem or use excessive water on unit.**
- **This unit must be serviced by qualified personnel only. Service by unqualified personnel may lead to electric shock or burn.**
- **FIRE HAZARD: Do not use flammable cleaning solutions to clean this unit.**

General cleaning

- Always clean equipment thoroughly before first use.
- Clean unit daily, using warm, soapy water or mild detergent.
- A plastic scouring pad and a mild detergent may be used to remove hardened food.
- Turn off unit at breaker before doing extensive refrigeration compartment cleaning or servicing.

NOTICE: Do not ever use steel wool, any highly caustic cleaners, acids or ammonia. These may cause corrosion and/or damage to the stainless steel.

Daily Cleaning

- Move the Power I/O (on/off) Switch to the “O” (off) position and allow the unit to defrost.

NOTE: If a catch pan is used underneath the drain fitting, make sure the pan is emptied regularly to prevent overflowing.

- Remove and wash any pans.
- Clean the frost top using a damp cloth or sponge and mild detergent. Use a plastic scouring pad to remove any hardened food particles or mineral deposits.
- Wipe down the frost top with a non-abrasive, sanitized cloth to remove the detergent residue.
- Repeat until all detergent residue is gone and the frost top is clean.
- Wipe down the outside of the ventilation panels where the condensing unit is installed.
- Wipe dry the entire unit and the ventilation panels with a clean, non-abrasive cloth.

Stainless Steel

- A soft cloth and clean, soapy, warm water should be used.
- A final rinse with clean water and a dry wipe with the grain will complete the process.

Lexan

- Prepare a cleaning solution using warm water and a liquid dish soap.
- Use a soft cloth or a microfiber cloth to clean.
- Rinse with lukewarm water. Wipe the surface dry with a microfiber cloth.
- Never use scrapers, squeegees or solutions made for glass.

MAINTENANCE

⚠ WARNING

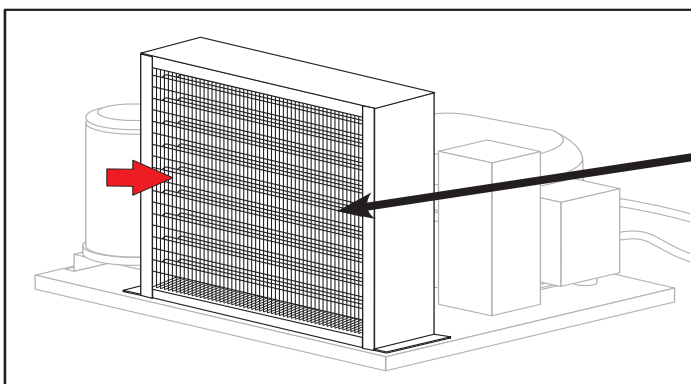
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- This unit is not “jet proof” construction. Do not use jet clean spray to clean this unit.
- Do not stem or use excessive water on unit.
- This unit must be serviced by qualified personnel only. Service by unqualified personnel may lead to electric shock or burn.
- FIRE HAZARD: Do not use flammable cleaning solutions to clean this unit.

Monthly Cleaning

Perform the following procedure monthly to maintain proper and efficient operation as well as prevent malfunction of the condensing unit.

1. Remove and clean both sides of the ventilation panels that are located where the condensing unit is installed. Dirt and dust build-up in the panels can restrict air flow to the condensing unit and cause over-heating.
2. Clean the condenser coil cooling fins. Dirt, dust, and lint build-up in the cooling fins will prevent proper cooling of the refrigerant in the refrigeration system. This buildup will cause inefficient operation and can lead to unit failure. Use the following methods to clean the condenser coil cooling fins:
 - Vacuum the cooling fins.
 - Brush the cooling fins vertically using a condenser coil brush.
3. Clean fan blades
4. Clean and disinfect drain lines with a solution of warm water and bleach.

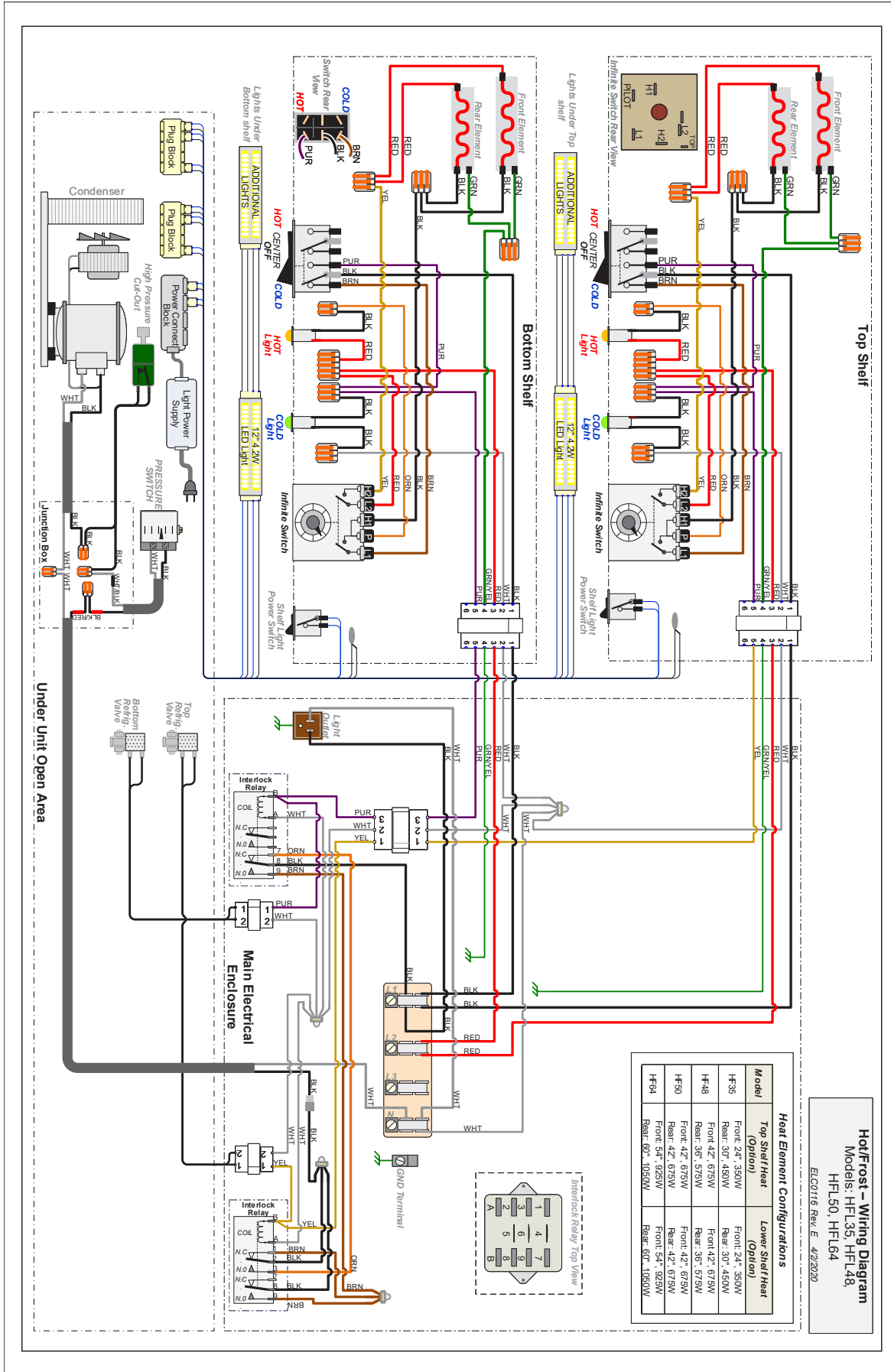
NOTE: Use caution when brushing the cooling fins, they are delicate and can be bent easily. **DO NOT** use a wire brush.



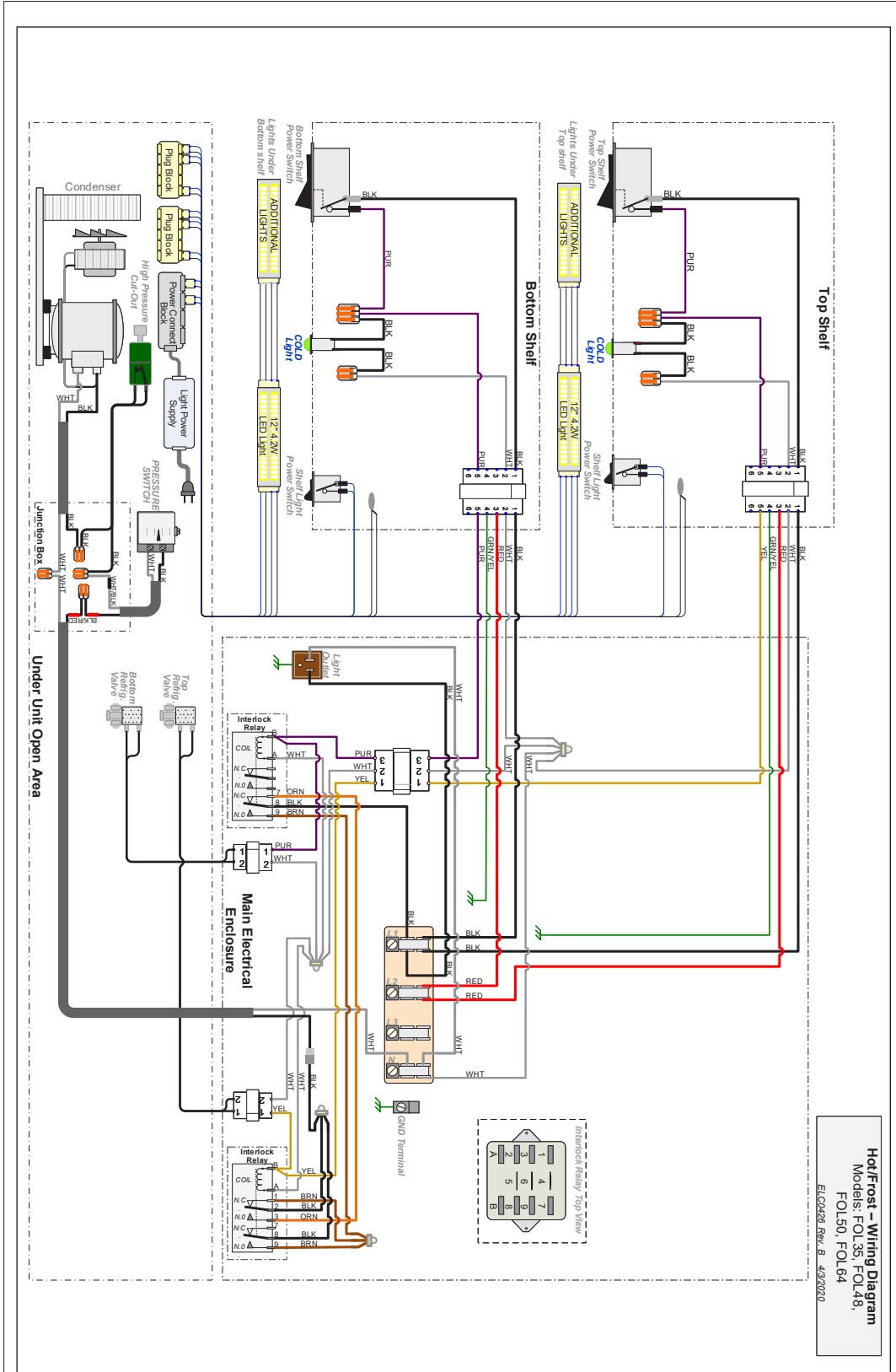
Condenser Coil
Cooling Fins

NOTE: Depending on the conditions of the installation site, this cleaning procedure may need to be performed more often or less often than monthly. Monitor the level of dirt, dust, and lint buildup on the panels and cooling fins, and make adjustments to the frequency of cleanings as necessary.

HOT FROST WIRE DIAGRAMS



HOT FROST WIRE DIAGRAMS - Continued



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