

KAIRAK

INSTRUCTION MANUAL KRES EQUIPMENT STANDS





INSTRUCTION MANUAL

KRES EQUIPMENT STANDS

SELF-CONTAINED AND REMOTE

Kairak KRES model refrigerated equipment stand units are available in many lengths from 36 to 120 inches long. These units are available as a refrigerated or freezer storage compartment. The condensing systems are designed to be installed with minimal clearance to walls or other equipment.

These models are available as self-contained or remote. Standard features on these models include electronic temperature control, all stainless steel construction (galvanized back), 4-inch casters for self-contained models and 6-inch legs for remote models, double or single wide drawers and exterior dial thermometer. Available options include, marine or flat top, stainless steel back, 6-inch casters and drawer locks. Some options are not available on all models.

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1. THE SERIAL TAG

The serial tag is a permanently affixed label on which is recorded vital electrical and refrigeration data about your Kairak product, as well as the model and serial number. This tag is located inside the storage cabinet on all standard KRES model refrigerated equipment stand units. Prior to installation, test the electrical service to assure that it agrees with the specifications of the equipment marked on the serial tag.

READING THE SERIAL TAG

- **Serial** = The permanent ID# of your Kairak unit
- **Model** = The model # of your Kairak unit
- **Volts** = Voltage
- **Hz** = Cycle
- **PH** = Phase
- **Total Current** = Maximum amp draw
- **Minimum Circuit** = Minimum circuit ampacity
- **Lights** = Light wattage
- **Heaters** = Heater amperage (Hot Food units only)
- **Refrigerant** = Refrigerant type used
- **Design Pressure** = High & low side operating pressures and refrigerant charge
- **Agency Labels** = Designates agency listings

SERIAL	MODEL	
VOLTS	HZ	PH
TOTAL CURRENT	AMPS	
MINIMUM CIRCUIT	AMPS	
MAXIMUM OVERCURRENT PROTECTION		AMPS
LIGHTS	WATTS	
HEATERS	AMPS	
REFRIGERANT	TYPE	OZ
DESIGN PRESSURE	HIGH	LOW
REFRIGERANT	TYPE	OZ
DESIGN PRESSURE	HIGH	LOW



FIG. 1

2. RECEIPT INSPECTION

All Kairak products are factory tested for performance and are free from defects when shipped. The utmost care has been taken in crating this product to protect against damage in transit.

You should carefully inspect your Kairak unit for damage during delivery. If damage is detected, you should save all the crating materials and make note on the carrier's Bill Of Lading describing the damage. A freight claim should be filed immediately. If damage is subsequently noted during or immediately after installation, contact the respective carrier and file a freight claim. There is a fifteen (15) day limit to file freight damage with the carrier. Under no condition may a damaged unit be returned to Kairak without first obtaining written permission (return authorization). You may contact Kairak customer care at (714) 870-8661 to request a return.

3. INSTALLATION

3A - UNPACKING:

Some components are packed and shipped inside the storage cabinet to avoid damage during shipment. Remove these items from the cabinet and remove packing materials. See "Installing Parts Shipped Loose" for installation instructions. Cut the plastic ties holding the shelves in place.

3B - LOCATING THE EQUIPMENT:

All model lengths can be installed with minimal clearance at the back and sides of the units.

3C - INSTALLING PARTS SHIPPED LOOSE: COMPRESSOR FILTER

Remove louvered panel by lifting up and pulling out entire panel. Slide the filter into the tracks located below the compressor compartment. Be careful not to catch the filter on sharp edges when installing. Replace louvered panel by installing top of panel into track and pushing in the bottom so that the locking clips fit inside the opening. (See Fig. 2)

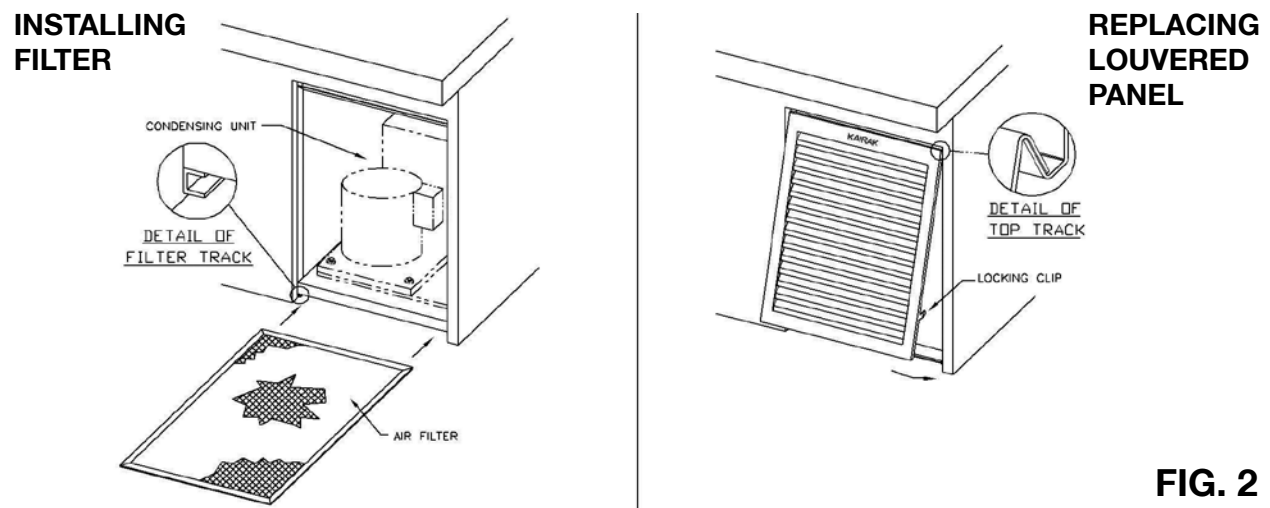


FIG. 2

3. INSTALLATION (CONTINUED)

3C - INSTALLING PARTS SHIPPED LOOSE (CONTINUED): ELECTRIC CONDENSATE EVAPORATOR

Some units may come with the electric condensate evaporator shipped loose. To install, attach the two (2) mounting rails to the bottom of the cabinet with 4 or 6 (depending on the model) #6-32 x 3/8 phillips head screws. Place the condensate evaporator in the heater bracket. Slide the heater bracket into the mounting rails. Plug the electrical cord into the heater and the electrical outlet. **NOTE: Drain should be located above the condensate evaporator opening.** (See Fig. 3)

INSTALLING ELECTRIC CONDENSATE EVAPORATOR

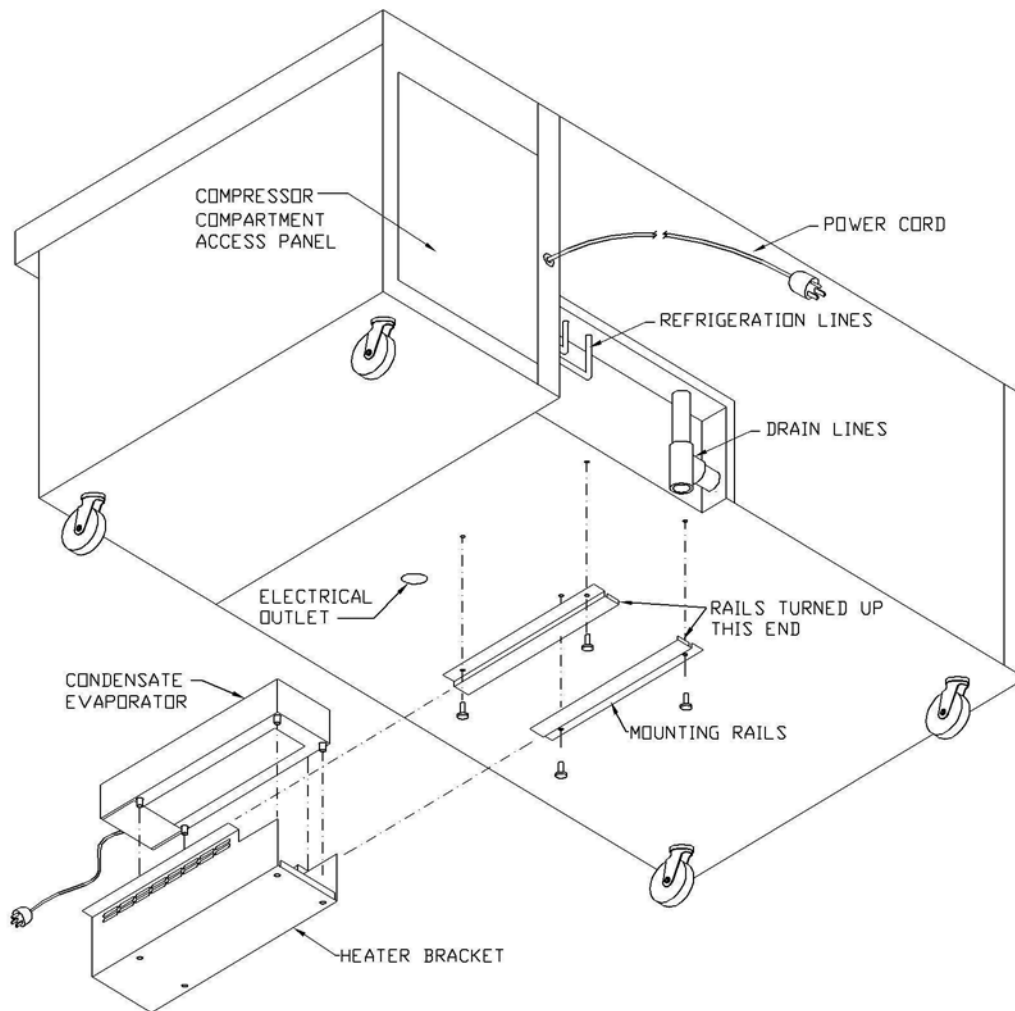


FIG. 3

4. REFRIGERATION LINES (REMOTE UNITS)

WARNING: REFRIGERATION LINES ARE SHIPPED UNDER PRESSURE. USE CAUTION WHEN OPENING LINES.

On remote units, refrigeration lines for suction and supply are located on the back of the unit near the bottom. The suction line is marked "Suction" and is 3/8" copper tubing. The supply line is 1/4" copper. See "Electrical Connections" section for wiring instructions.

If no holding charge is evident upon opening lines, contact Kairak Service and Parts Department at 714-870-8661 immediately.

Cut refrigeration tubing with tube cutter (not a hacksaw) and deburr end of tube. Degrease tubing prior to field connection. Use Silfos 5% for refrigerant line brazing. 50/50 or cold solder is not acceptable.

For system charge, follow remote refrigeration system manufacturer's instructions.

5. ELECTRICAL CONNECTIONS

Refer to the wiring diagram shipped with the unit located inside the compressor compartment or on the back of the unit.

CORD CONNECTED UNITS (Self-Contained models)

Plug the unit into a properly sized outlet. See data plate located inside storage cabinet for circuit sizing.

WARNING: THIS MACHINE IS PROVIDED WITH A THREE-PRONGED GROUNDING PLUG. THE OUTLET TO WHICH THIS PLUG IS CONNECTED MUST BE PROPERLY GROUNDED. IF THE RECEPTACLE IS NOT THE PROPER GROUNDING TYPE, CONTACT AN ELECTRICIAN.

PERMANENTLY WIRED UNITS (Remote models)

A junction box located on back of the machine near bottom is provided for electrical field connections. See wiring diagram shipped with unit on the back of the unit for electrical ratings.

6. PRESTART CHECKS

6A - DEFROST TIME CLOCK SETTINGS

All models have a defrost time clock that is set to defrost 3 times a day for a 15 minute time period. The defrost settings are factory set at 12:00 a.m. to 1:00 a.m., 2:00 a.m. to 2:30 a.m. and 5:00 a.m. to 6:00 a.m. To change this setting, set the pins to desired off times. Each pin represents 15 minutes. Pins pulled out away from center of time clock represent refrigeration off. Pins pushed toward center indicate refrigeration on. Make sure time clock is set to the correct time of day.

To set the time of day, rotate the disc in the direction of the arrows (clockwise rotation) to align the hands to the correct time of day. (See Fig. 4)

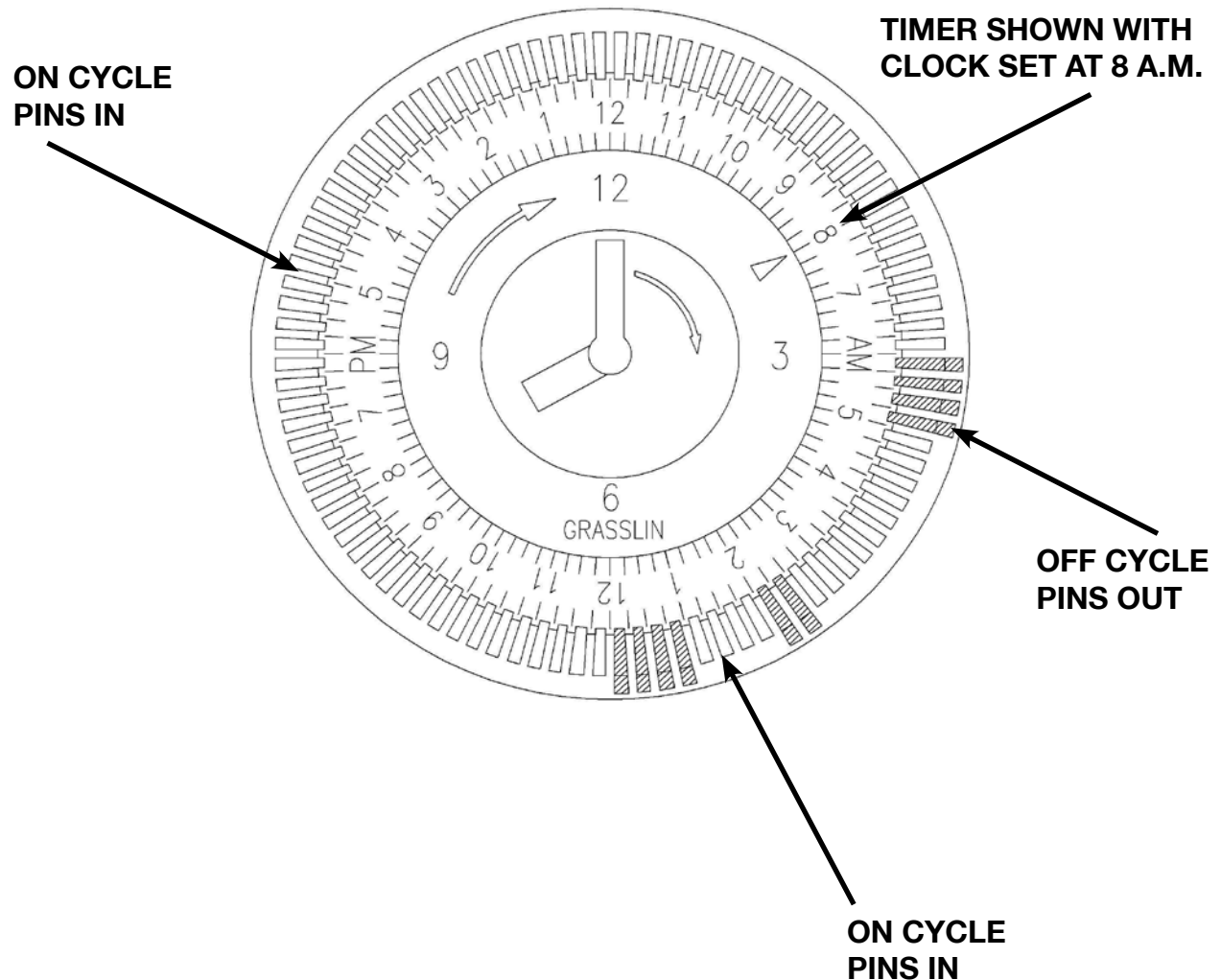


FIG. 4

6. PRESTART CHECKS (CONTINUED)

6B - TEMPERATURE CONTROL SETTINGS:

All temperature settings are preset at the factory but local conditions may necessitate slight adjustments.

On self-contained refrigerated models the temperature control (shown in Fig. 5) is located in the compressor compartment.

KRES SELF-CONTAINED

BASE TEMPERATURE CONTROL



POWER SWITCH

FIG. 5

On remote models, the controls can either be inside the control cabinet similar to that shown in Fig. 5 or inside the refrigerated base as shown in Fig. 6.

KRES REMOTE

BASE TEMPERATURE CONTROL

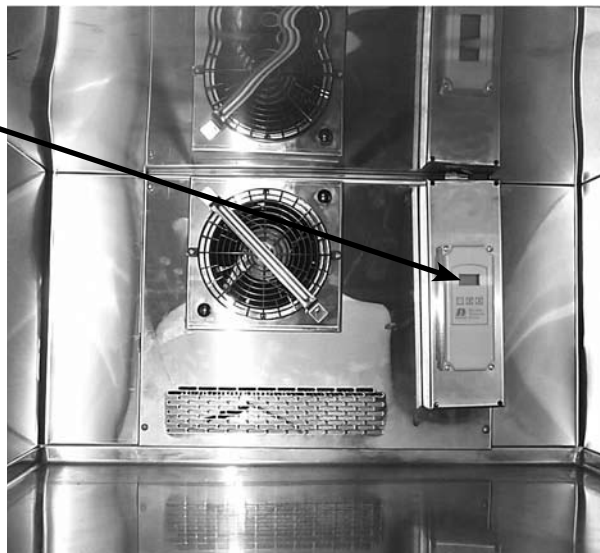


FIG. 6

6. PRESTART CHECKS (CONTINUED)

6B - TEMPERATURE CONTROL SETTINGS (CONTINUED):

On both self-contained and remote refrigerated units, the temperature control should be set at 37°F with a 3°F differential. This display should read between 34°F and 40°F. The temperature control setting is “locked” to avoid unauthorized adjustments. Therefore, adjustments to the set point must be made by an authorized service technician.

On freezer base units, the temperature control should be set at 0°F with 2°F differential. Temperature display should read between -2°F and 2°F.

7. OPERATION

A thermometer is provided on all refrigerator and freezer cabinets.

Allow cabinet to reach normal operating temperature before loading (approximately 1 hour).

The refrigerated storage cabinet is designed to maintain temperatures between 33°F and 40°F, or -2°F to 2°F for a freezer storage cabinet. If the base is overloaded with warm food products, a certain amount of time is required to remove heat from items before operating temperatures can be maintained. The system is designed for storage of refrigerated or frozen product.

Frequently opening the drawers will increase the temperature in the cabinet and will require a certain amount of time to recover.

SHUTDOWN FOR EXTENDED PERIODS

If the units are not to be used for an extended period of time, disconnect the electrical power supply and the drawers to the storage cabinet. As soon as the cabinet has warmed to room temperature, wipe out the base interior.

8. MAINTENANCE PROCEDURES

8A - CLEANING:

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY BEFORE CLEANING ANY PARTS ON THE UNIT.

8B - STORAGE CABINET:

Use warm, soapy water to clean storage cabinet and doors. NEVER use cleaners containing grit, abrasive materials, bleach or harsh chemicals. Rinse thoroughly and dry with a clean soft cloth. Always rub in the same direction as the grain pattern on the stainless steel.

8. MAINTENANCE PROCEDURES (CONT.)

8B - STORAGE CABINET (CONTINUED):

Remove the drawers from the drawer frame module. The drawer frame module can be removed by loosening the black clamping knob on the Cross Rail Locks and Liner Locks. Pull the Cross Rail Locks toward the center of the drawer frame module and allow the Liner Locks to drop away from the top of the liner. The entire frame assembly is now free to slide out of cabinet. (See Figs. 7 & 8)

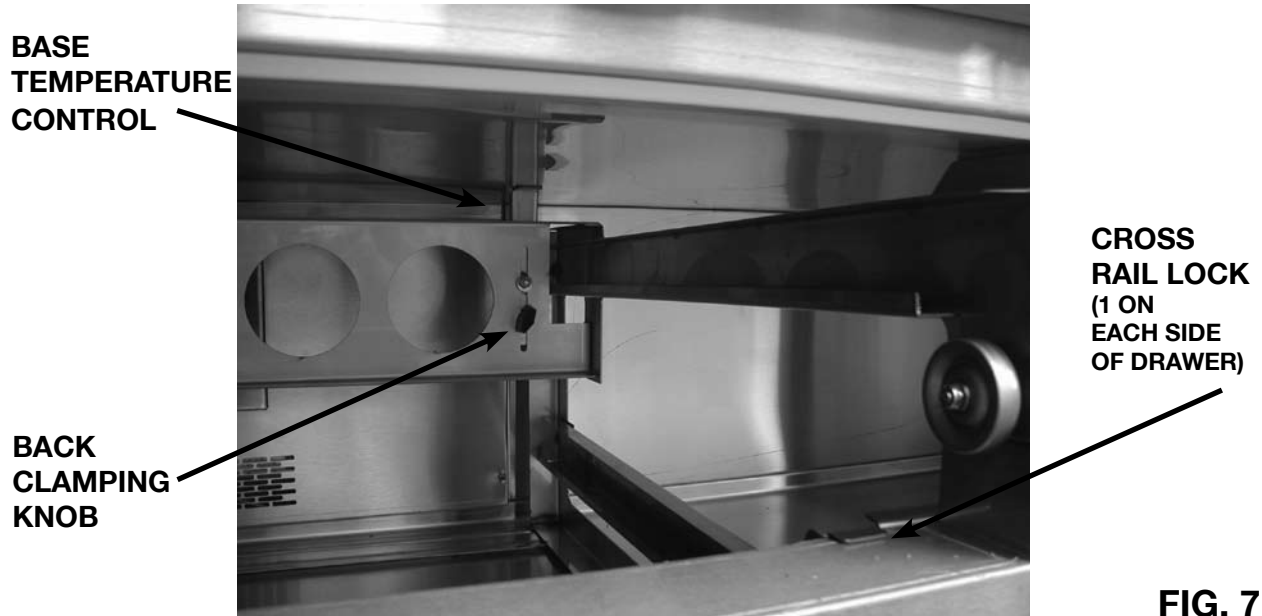


FIG. 7

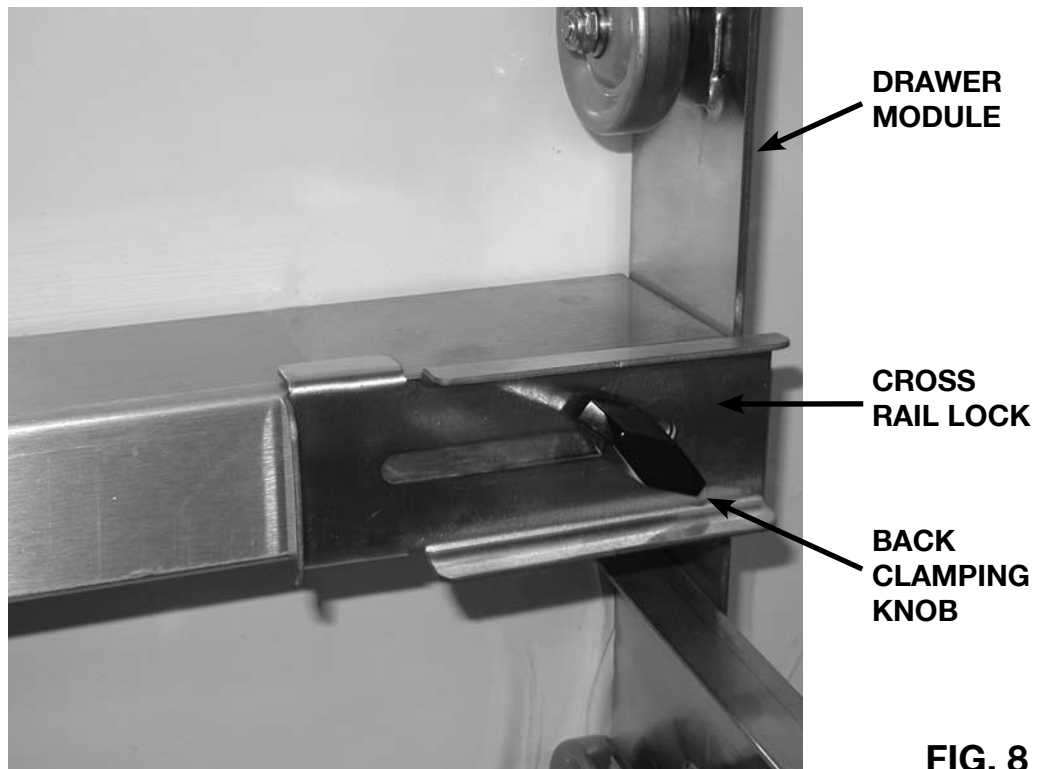


FIG. 8

8. MAINTENANCE PROCEDURES (CONT.)

8C - CONDENSING UNIT:

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY BEFORE CLEANING ANY PARTS ON THE UNIT.

The condensing unit coil and filter must be cleaned regularly on self-contained models for optimal performance. The operating environment will affect the required frequency of cleaning. However, both should be cleaned a minimum of once every three months. Air must be able to freely circulate through the condenser. Unit performance and operating efficiency are significantly affected by the amount of air passing through the condenser. Condenser fins that are clogged with dirt and debris greatly reduce required airflow. **Failure to keep the coil fins and the air filter clean may cause premature compressor failure, which will not be covered by warranty. (On models that contain filters, operating unit without filter will void warranty).**

The condensing unit is located behind the louvered panel in the compressor compartment. Remove louvered panel by pulling on the bottom then lifting up and out. Remove rear access panel located in the back of unit. A phillips head screwdriver is required to remove rear access panel. Carefully clean dirt and lint from the condenser coil using a vacuum cleaner or soft brush; do not use a wire brush.

The filter is located behind the louvered panel, below the condensing unit in the compressor compartment. Remove filter by carefully sliding out of the tracks. Carefully clean with vacuum or rinse with hot water exercising care not to bend or damage filter frame. Replace filter by carefully sliding it into the tracks. Replace louvered panel by installing top of panel into track and pushing in the bottom so that the locking clips fit inside the opening. Replace rear access panel. Reconnect electrical supply.

Replacement filters are available through Kairak Parts and Service Department at 714-870-8661.

8D - EVAPORATOR COILS:

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY BEFORE CLEANING ANY PARTS ON THE UNIT.

Evaporator coils should be cleaned every six (6) months for optimal performance.

The evaporator coils are located in the storage cabinet behind the coil can cover. With a phillips head screwdriver, remove four screws and take off cover. Clean evaporator coils with a vacuum cleaner or soft brush, do not use a wire brush. Replace coil can cover. Reconnect electrical supply.

9. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE
1. Compressor fails to operate	<ul style="list-style-type: none">• Power failure.• Plug loose in receptacle or unplugged.• Blown fuse or tripped circuit breaker.• Main power switch is Off.• Temperature controls or time clock not set properly.
2. Condensing unit operates for prolonged periods or continuously.	<ul style="list-style-type: none">• Door gaskets not sealing properly.• Condensing unit filter is dirty.• Evaporator coil is iced up or dirty.• Prolonged and/or frequent door openings or door(s) ajar.• Excessive load of warm food placed into lower storage cabinet.
3. Lower storage cabinet not holding temperature.	<ul style="list-style-type: none">• Temperature control and/or time clock not set properly.• Door gaskets not sealing properly.• Inadequate air circulation due to product loading.• Evaporator coil is iced up or dirty.

SERVICE

For additional information, contact Kairak Parts and Service Department: **800-833-1106**.

10. WARRANTIES

Kairak's warranty coverage warrants that Kairak-branded products are free of defects in materials and factory workmanship. The following applies to all Kairak Model and Serial numbers.

Kairak's warranty is extended only to the original purchaser and shall not apply to any failures resulting from damage in transit, improper installation, alteration, normal wear, misuse, abuse, improper voltage, accident or negligence. The warranty excludes; T-stat adjustments, time clock adjustments, gaskets, cutting boards, filters, clogged drains, ice build-up with no mechanical failures, and the loss of contamination of food due to mechanical or electrical failure. Warranty does not apply outside the United States.

In order to be covered under this warranty, prior authorization to perform the necessary and appropriate service must be obtained from the factory. Model and Serial number must be provided at the time of service request. Kairak does not assume responsibility for any expenses, including labor, parts or travel expenses incurred without such prior authorization. Kairak shall not be liable, whether in contract or in tort or under any other legal theory for loss of use, revenue or profit, substitute use or performance, incidental, indirect or special and/or consequential damages, loss of refrigerant or for any other loss or cost of similar type. Such related charges will be back charged to the responsible party. The decision of the Kairak Service and Warranty, as to whether a defect is within the terms of this warranty shall be final.

Failure to object or provision contained in a customer's purchase order or other communication shall not be deemed as a waiver of terms or conditions of their warranty, nor shall it be considered acceptance of such provisions. This warranty supersedes and is in lieu of all other warranties, expressed or implied and of other obligations of liabilities, on the part of Kairak.

In case of freight damage, do not refuse shipment, but call agent's attention to its condition, making careful note of the details on freight bill before freight charges are paid. File claim for damages with freight agent immediately.

BLU FIXTURES manufactured by Kairak hold a 3-year parts and labor warranty. Kairak holds a 5-year compressor warranty, with a one-time compressor only replacement after the first year. Kairak will warranty the labor to replace the compressor for the first three years, 30 days from the ship date. After the first three years, labor, tax, shipping and miscellaneous parts will not be included. Please contact our warranty department for compressor replacement procedures during the warranty period. BLU remote Fixtures are designed to operate with Kairak remote systems only. Violation of these terms will void all warranty.

REFRIGERANT FIXTURES manufactured by Kairak hold a 1-year parts and labor warranty. Kairak holds a 5-year compressor warranty, with a one-time compressor only replacement after the first year. Kairak will warranty the labor to replace the compressor for the first year, 30 days from the ship date. After the first year, labor, tax, shipping and miscellaneous parts will not be included. Please contact our warranty department for compressor replacement procedures during the warranty period.

REMOTE SYSTEMS manufactured by Kairak hold a 1-year parts and 90-day labor warranty on the remote system, with an option to purchase 1-year labor warranty at the time of purchase order receipt. This warranty does not apply to motors, switches, controls, accessories or parts manufactured by others and purchased by Kairak, unless the manufacturer warranties the same to Kairak. Kairak holds a 5-year compressor warranty, with a one-time compressor only replacement after the first year. Kairak will warranty the labor to replace the compressor for the first year, 30 days from the ship date. After the first year, labor, tax, shipping and miscellaneous parts will not be included. Please contact our warranty department for compressor replacement procedures during the warranty period.

TO REQUEST AUTHORIZED SERVICE, CALL THE KAIRAK SERVICE AND WARRANTY HOTLINE: (800) 833-1106. After-hour requests must be urgent in nature and documented with Kairak's after-hours service line prior to service being performed. Kairak is responsible for straight time only, unless otherwise approved by the warranty department.

KAIRAK

UNRIVALED REFRIGERATION TECHNOLOGY

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