



A Div of ITW FEG, LLC.

INSTRUCTION MANUAL



KRES Equipment Stands Self-Contained and Remote

Kairak
500 S. State College Blvd.
Fullerton, CA 92831

IM-ES-REV 5-09-06

PN 4406010-1


GENERAL

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.

INSTALLATION

Prior to installation, test the electrical service to assure that it agrees with the specifications of the equipment marked on the data plate. The data plate is located inside the storage cabinet. (See Fig. 1)



KAIRAK *Innovations*
UNIQUE FOOD SERVICE EQUIPMENT
 A Division of KAIRAK, INC.
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| <p>Serial No. →</p> <p>Electrical & Refrigeration Specifications →</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>MODEL NO.</td><td></td></tr> <tr><td>SERIAL NO.</td><td></td></tr> <tr><td>TYPE</td><td></td></tr> <tr><td colspan="2"> </td></tr> <tr><td>VOLTS</td><td></td></tr> <tr><td>HERTZ</td><td></td></tr> <tr><td>AMPS</td><td></td></tr> <tr><td>REFRIGERANT</td><td></td></tr> <tr><td>REFRIGERANT AMOUNT</td><td></td></tr> <tr><td>DESIGN</td><td>HIGH (P.S.I.G.)</td></tr> <tr><td>PRESSURES</td><td>LOW (P.S.I.G.)</td></tr> <tr><td>MAX. FUSE SIZE</td><td></td></tr> <tr><td colspan="2"> </td></tr> <tr><td colspan="2" style="text-align: center;">SAMPLE</td></tr> <tr><td colspan="2" style="text-align: center;"><small>COMMERCIAL REFRIGERATOR AND/OR FREEZER</small></td></tr> <tr><td colspan="2" style="text-align: center;">   </td></tr> <tr><td colspan="2" style="text-align: center;"> <small>MEA #242-94-E VOL. II PATENT #5355687 (AND OTHER PATENTS PENDING)</small> </td></tr> <tr><td colspan="2" style="text-align: center;"><small>UNION MADE BY SHEET METAL LOCAL 170</small></td></tr> </table> | MODEL NO. | | SERIAL NO. | | TYPE | | | | VOLTS | | HERTZ | | AMPS | | REFRIGERANT | | REFRIGERANT AMOUNT | | DESIGN | HIGH (P.S.I.G.) | PRESSURES | LOW (P.S.I.G.) | MAX. FUSE SIZE | | | | SAMPLE | | <small>COMMERCIAL REFRIGERATOR AND/OR FREEZER</small> | |   | | <small>MEA #242-94-E VOL. II PATENT #5355687 (AND OTHER PATENTS PENDING)</small> | | <small>UNION MADE BY SHEET METAL LOCAL 170</small> | |
| MODEL NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| VOLTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HERTZ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AMPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REFRIGERANT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REFRIGERANT AMOUNT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MAX. FUSE SIZE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SAMPLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <small>COMMERCIAL REFRIGERATOR AND/OR FREEZER</small> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Fig. 1

UNPACKING

Inspect equipment for shipping damage prior to installation. If shipping damage is found, save the packing materials and contact the carrier within 15 days of delivery. 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.

LOCATING THE EQUIPMENT

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

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).

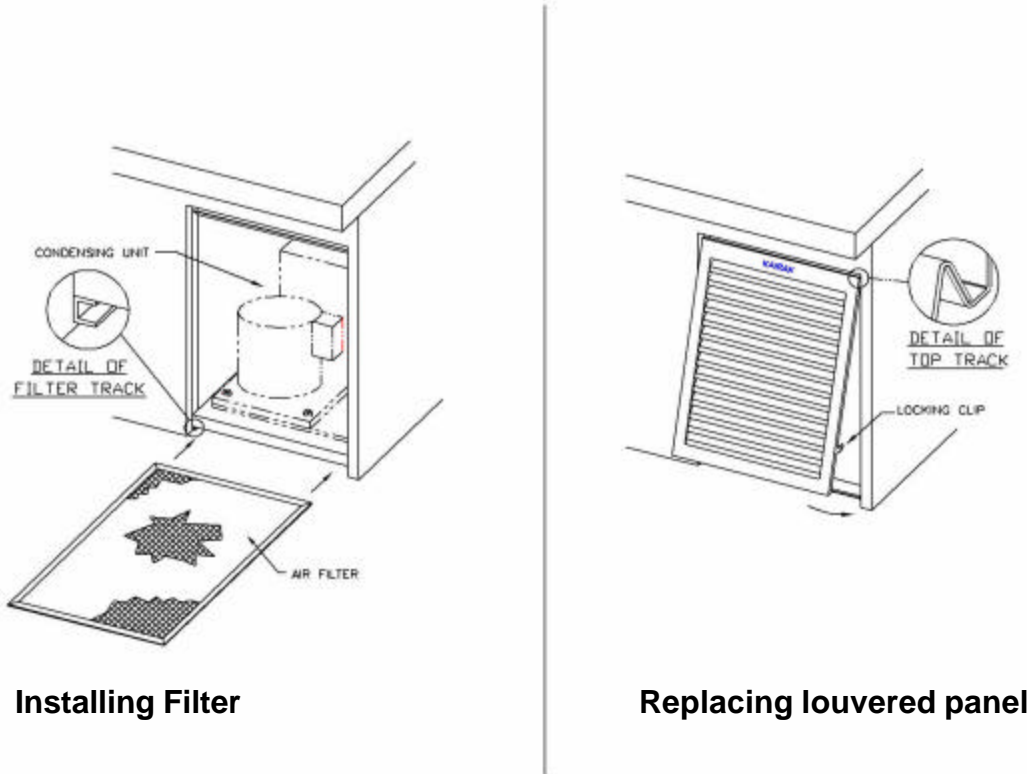
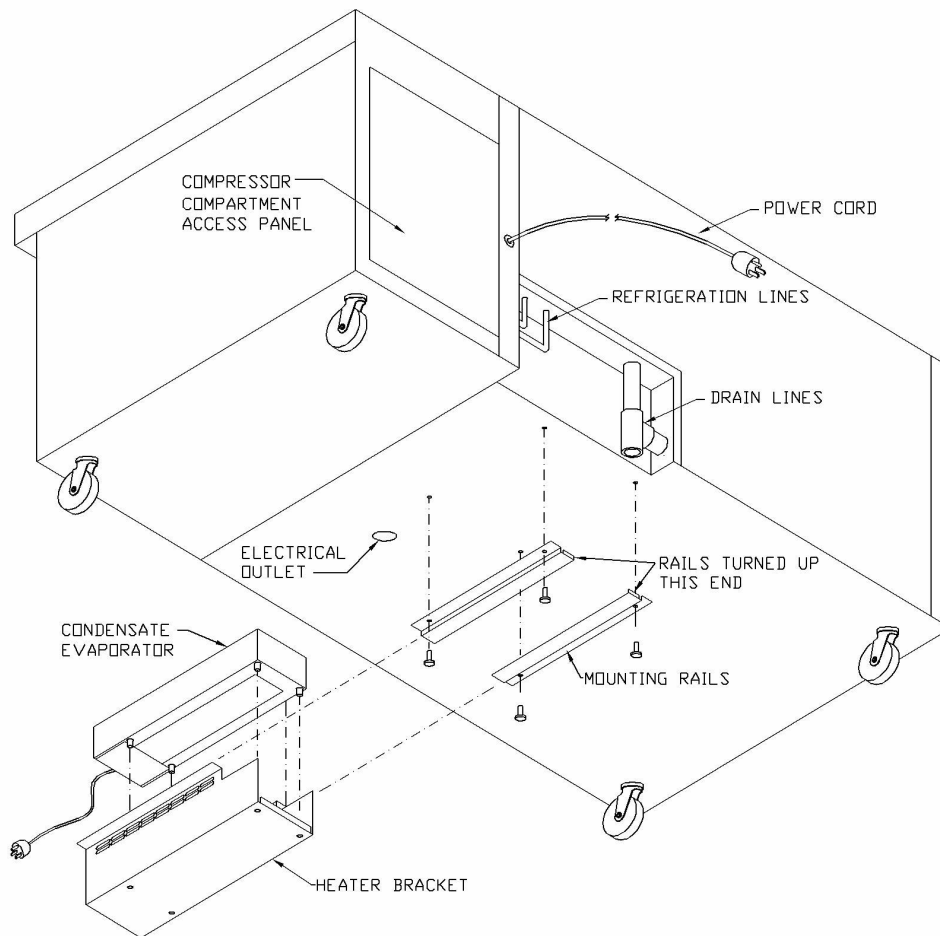


Fig. 2

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

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.

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.

PRESTART CHECKS

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)

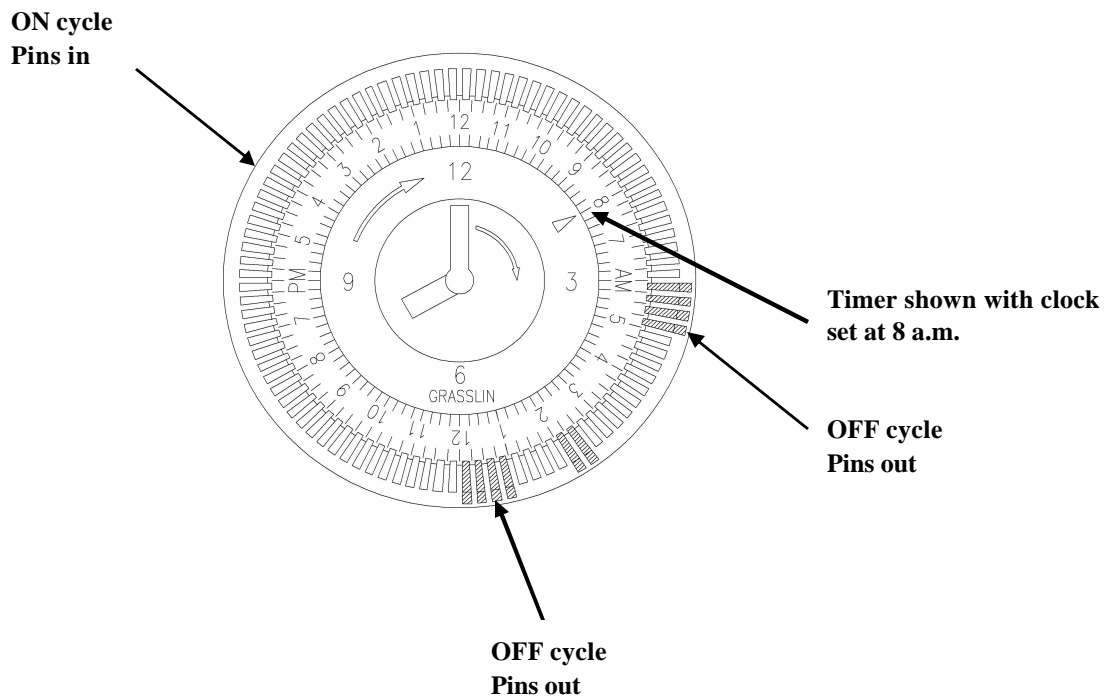
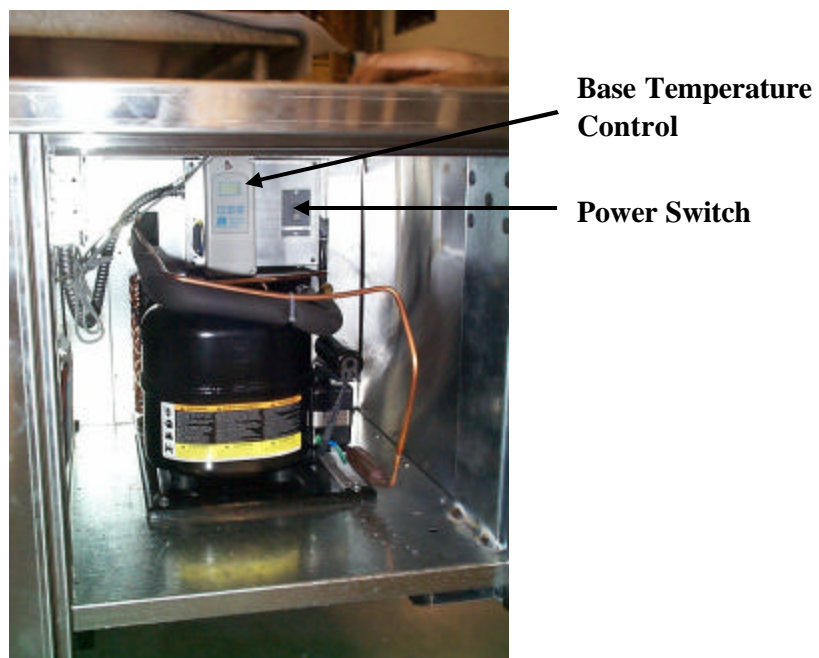


Fig. 4

TEMPERATURE CONTROL SETTINGS

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

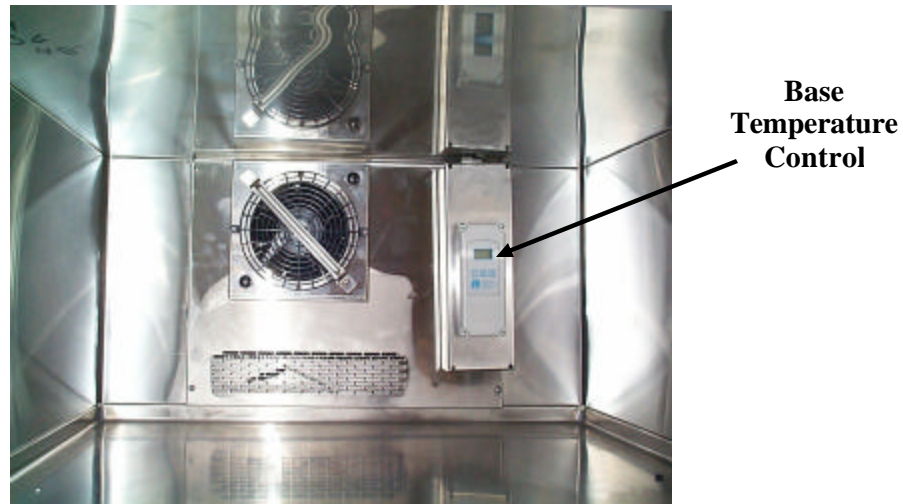
On self-contained refrigerated models the temperature control (shown in Fig. 5) is located in the compressor compartment.



KRES Self-contained

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

Fig. 6

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.

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.

MAINTENANCE PROCEDURES

CLEANING

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

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.

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).

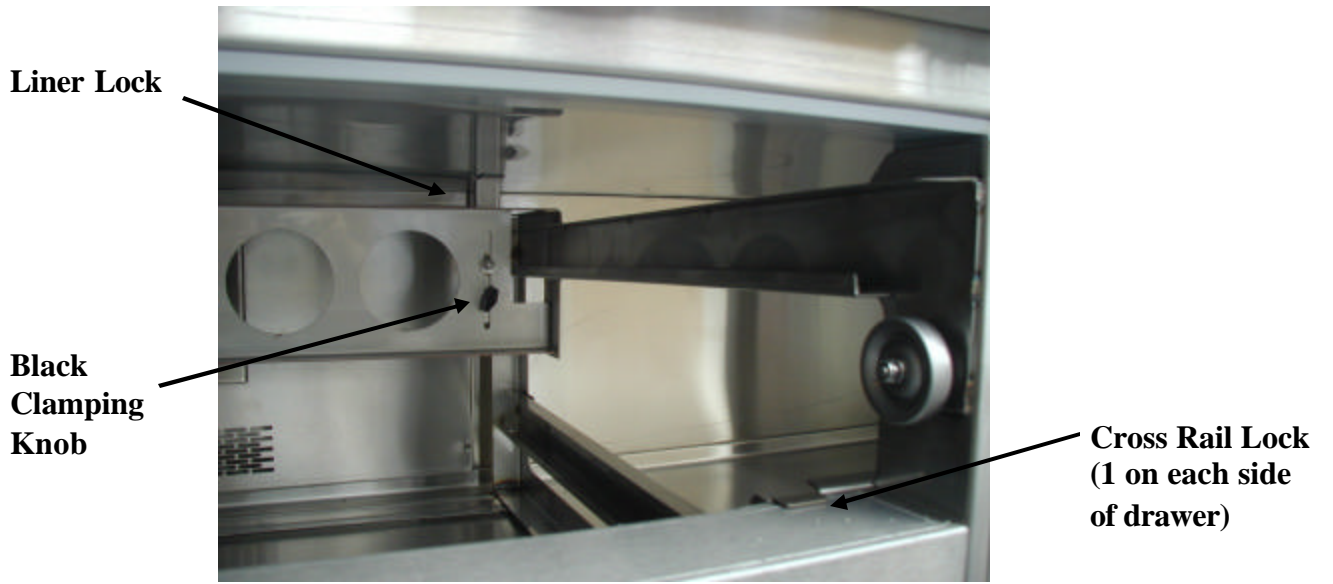


Fig. 7

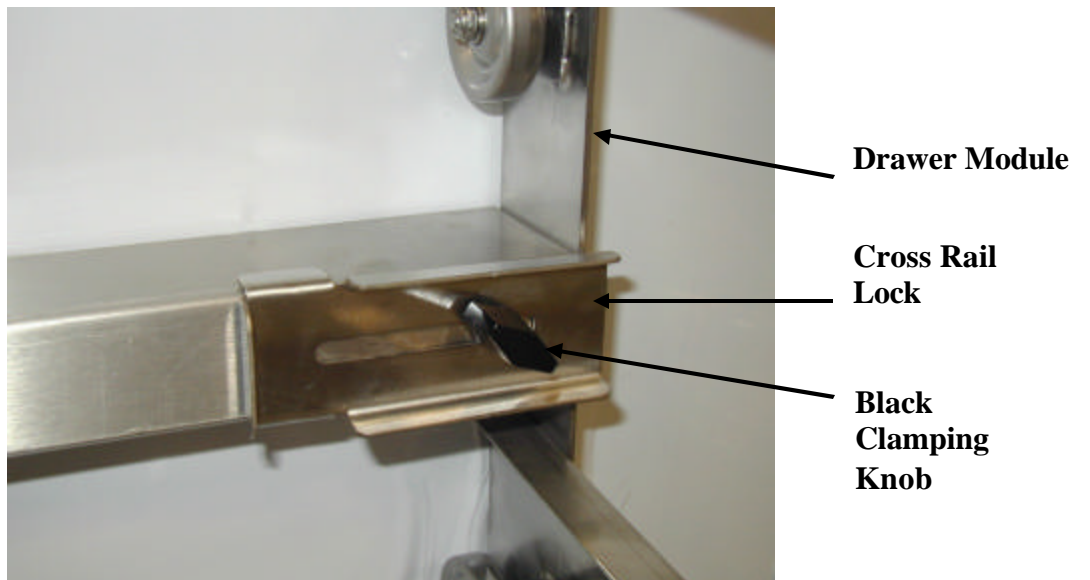


Fig. 8

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.**

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.

TROUBLESHOOTING

| SYMPTOM | POSSIBLE CAUSE |
|--|--|
| 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. |
| Compressor operates for prolonged periods and/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. |
| 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 iced up or dirty. |

SERVICE

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



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1-YEAR LABOR WARRANTY

Kairak warrants that equipment manufactured by Kairak will be free from defects in material and workmanship for a period of 1-year beginning 30 days after ship date. All work must be pre-approved by the factory to qualify for reimbursement under this warranty. Unapproved labor claims will not be paid. Note: t-stat and time clock adjustments are not covered under this warranty.

1-YEAR PARTS WARRANTY

Components such as compressors, fan motors, t-stats (ETC), time clocks, expansion valves, etc. shall be warranted for a period of 1-year beginning 30 days after ship date. Note: gaskets, filters, cutting boards, driers, sight glasses, and freon are not covered under this warranty. Kairak must be informed of the component failure and given the option to ship a replacement part or authorize purchase of the part locally by the service contractor. Parts utilized for emergency replacement and parts purchased locally by contractor shall be reimbursed at cost, an invoice of the purchased part must be supplied with the labor invoice. All defective parts must be returned to Kairak C.O.D. via UPS or common carrier.

5-YEAR COMPRESSOR WARRANTY

Compressor manufacturer warrants compressor components for a period of twelve months from the serial number manufacture date. Replacement compressors required during this period are to be acquired by over the counter exchange at the appropriate wholesaler. Kairak will warrant the labor to replace the compressor for the first year only. After the expiration of the compressor manufacturer warranty as indicated above, Kairak will warrant *compressors only for a period not to exceed 4-years from the original start-up date.* Labor, tax, shipping, and miscellaneous parts will not be included. Please contact our Warranty Department for compressor replacement and procedures during this time.

PLEASE NOTE:

Contributing factors that impact refrigeration performance such as fixture doors and or drawers being left open, hot products such as soup being placed inside the reach-in box, fixture top insert pans being left out, improper equipment maintenance, debris such as plastic wrap covering coil openings, food not being removed from drain areas, are all considered maintenance and or improper usage will not be covered under warranty.

Kairak Warranty/Service Department – (800) 833-1106 After Hours – (714) 870-9400

**500 S. State College Blvd., Fullerton, CA. 92831
(Phone: 714-870-8661 Fax: 714-870-6473)**

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