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# NORLAKE®

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## **INTERNATIONAL DAIRY QUEEN DROP-IN COLD RAIL Installation, Operation and Maintenance Instructions**

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### **INSPECTION**

When the equipment is received, all items should be carefully checked against the bill of lading to insure all crates and cartons have been received. All units should be inspected for concealed damage by uncrating the units immediately. If any damage is found, it should be reported to the carrier at once, and a claim should be filed with the carrier. This equipment has been inspected and tested in the Nor-Lake Manufacturing Facility and has been crated in accordance with transportation rules and guidelines. Manufacturer is not responsible for freight loss or damage.

### **INSTALLATION**

#### **GENERAL**

To ensure that the warranty of the Drop-In Cold Rail is maintained, and to operate properly, the refrigeration system housed in the bottom of the unit must have adequate ventilation. The air ventilation requirements of the cabinet in which the unit is going to be placed, "dropped-in" are:

- A minimum clearance of three inches must be maintained from the back and sides of the unit to the interior walls of the cabinet.
- The air flow through the front louver should not be restricted. Do not stack anything in front of this louver.
- The front of the cabinet into which this unit is "dropped-in" must remain open. The refrigeration system will not operate properly in a closed cabinet without ventilation.

## INSTALLATION STEPS

**CAUTION:** Do not tip the unit on its side for an extended period of time or permanent damage to the refrigeration system may occur. If the refrigerator has been tipped, do not energize the unit for a minimum of ten hours after it has been returned to its upright position.

1. Following the minimum space constraints detailed in GENERAL section above, cut a hole 21-1/2" wide x 20" deep in the counter top.
2. Run a bead of an approved silicone sealant, approximately 1/2" from the edge, completely around the outside of the hole in the counter top.
3. Carefully lower the unit into the hole cut in the counter top. The unit will be supported by the flange around the perimeter of the cold rail.
4. Wipe away any of the silicone along the flange and the counter top that squeezes out when the unit is lowered into the hole.

## ELECTRICAL

Check the proposed outlet to be used to insure that the voltage, phase and current carrying capacity of the circuit from the electrical panel corresponds to the requirements of the cabinet. Never use an extension cord to wire any unit. Refer to Table 1 and the Serial Tag for all pertinent electrical information.

**Observe all Warning Labels. Disconnect power supply to eliminate electrical shock and injury from moving parts when servicing equipment.**

**Table 1 - Electrical Data**

| <u>Unit Model</u> | <u>Type of Connection</u> | <u>Volt/Hz/Ph</u> |
|-------------------|---------------------------|-------------------|
| ZR080SMS/0M-2DQ   | Cord                      | 115/60/1          |

## GENERAL OPERATION

The Drop-In Cold Rail employs a cold wall evaporator located inside the topping rail. During the refrigeration process, heat is removed through the evaporator tubing and expelled through the condensing unit. In order to assure proper air flow, make certain the flow of air behind the unit and through the front louver is not restricted.

The refrigeration system on this cabinet uses a temperature thermostat that senses the cut-in and cut-out temperatures of the cold wall evaporator coil. The topping rail temperature can be adjusted by turning the thermostat control knob which is located behind the top right corner of the louvered panel on the front of the unit.

## GENERAL MAINTENANCE

### PERIODIC CLEANING

Beginning with the initial installation, the interior surfaces of the topping well should be periodically wiped down with a solution of warm water and baking soda. This solution will remove any odors that may occur as a result of spillage. The exterior of the cabinet should also be cleaned frequently with a commercial grade of glass cleaner. **Caution:** Do not use any abrasive or alkaline solutions to clean the cabinet.

**Important:** Monthly cleaning of the condenser coil will aid the heat transfer characteristics of the refrigeration system and keep it operating at top efficiency. The condenser coil is located in the back of the unit and can be reached by removing the side access panels. Failure to keep the condenser coil clean could result in temperature loss and damage to the compressor.

Disconnect the power before cleaning the condenser coil to prevent injury. Remove the access panel on the left side and use a soft brush to loosen the lint and dirt attached to the fins. After this has been accomplished, use a vacuum cleaner to remove the loosened particles.

All moving parts have been permanently lubricated and will generally require no maintenance.

### SERVICE

Any correspondence pertaining to this cabinet should be directed to the Service Department of Nor-Lake, Incorporated. Be sure to include the unit **model number** and **serial number** with any correspondence.

**800-388-5253 Parts/Service**

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