

## INSTALLATION & START-UP

Polar Leasing walk-in coolers/freezers are delivered to our customers fully assembled and require only a few basic procedures prior to start-up.

- (1) Locate the unit on a level surface. It is very important that the surface is level for proper condensation drainage and operation.
- (2) Condensing unit on the walk-in should be a minimum of 6 feet from any building exhaust ventilation fans.
- (3) Keep an open area of at least 3 feet around the condensing unit to assure sufficient air ventilation.
- (4) Make sure you have adequate electrical service for your unit.
- (5) If the unit is equipped with a toggle switch designating COOLER/FREEZER, move the switch to the desired mode. This switch is located on the interior of the unit. Units without this switch need only adjust the thermostat.
- (6) Set the thermostat for your desired hold temperature depending on the unit. See below for recommendations. Polar Leasing recommends that you do not set the temperature colder than required, as this will cause unnecessary power consumption and potential damage.
  - a. Units with the toggle switch are equipped with two thermostats, corresponding to the mode, located either adjacent to the toggle switch or under the condensing unit cover on the exterior of the unit.
  - b. Units without a toggle switch are equipped with a single adjustable thermostat which is mounted on the interior left wall of the walk-in.
  - c. **RECOMMENDATIONS: COOLER: +34° TO +37° F FREEZER: 0° TO -10° F**  
**IMPORTANT: MODEL #'S BEGINNING WITH AN "H" CAN ONLY BE OPERATED 34° TO 37° F.**  
**MODEL #'S BEGINNING WITH AN "L" OR "M" CAN ONLY BE OPERATED 0° TO -10° F**
- (7) A qualified electrician in accordance with the NEC and/or local electrical codes may now install and wire incoming power. A wiring diagram is located on the backside of the electrical box panel. Connections are to be made to the breaker terminals located in the electrical disconnect box on the exterior rear wall of the unit.
- (8) The unit can now be started. Depending on the unit, this is done by flipping the circuit breaker switch to the "ON" position or by removing, rotating, and reinserting the fuse t-handle to the "ON" position. Both are located in the disconnect box.
- (9) Verify the refrigeration is operating properly. (See sequence of operation, "Refrigeration – Initial Start-up" below.)
- (10) Wait until the refrigeration has reached the desired holding temperature before loading product.
- (11) Do not alter any controls, switches, wires, or any other device other than the thermostat.
- (12) When cleaning the inside of the unit with any liquid substance, turn off electrical power. **IMPORTANT: DO NOT USE BLEACH OR AMMONIA TO CLEAN INSIDE OF THE UNIT AS IT MAY CAUSE DAMAGE TO THE COIL SURFACE.**

## SEQUENCE OF OPERATION

### Refrigeration – Initial Start-up

When starting up the refrigeration system for the first time, the following events occur. The operating sequence is as follows:

- (1) Thermostat calls for refrigerant.
- (2) Liquid line solenoid valve opens, allowing refrigerant to flow.
- (3) Pressure control makes the control circuit and the condensing unit operates.
- (4) The coil temperature falls and the evaporator fans come on. (Note: The fans may cycle two or three times until the room temperature is stabilized.)
- (5) When the room thermostat is satisfied, the liquid line solenoid will close and the compressor will pump down and turn off. (Fan on unit cooler will continue to run.)

### Defrost

Four electric defrost cycles per day are programmed at the factory. These cycles take place every 6 hours and can last up to 30 minutes. **THE INTERIOR TEMPERATURE MAY RISE SLIGHTLY DURING THE DEFROST CYCLE. DO NOT BE ALARMED. THE UNIT WILL RETURN TO PROPER TEMPERATURE SOON AFTER THE CYCLE IS COMPLETE.**