



WALK-IN COOLER ELECTRICAL GUIDE

ELECTRICAL INSTALLATION



IMPORTANT!!

Electrical installations SHOULD be performed by a qualified electrician to ensure correct power supply, wiring, and compliance with National and Local Electrical Codes.

IMPORTANT!!

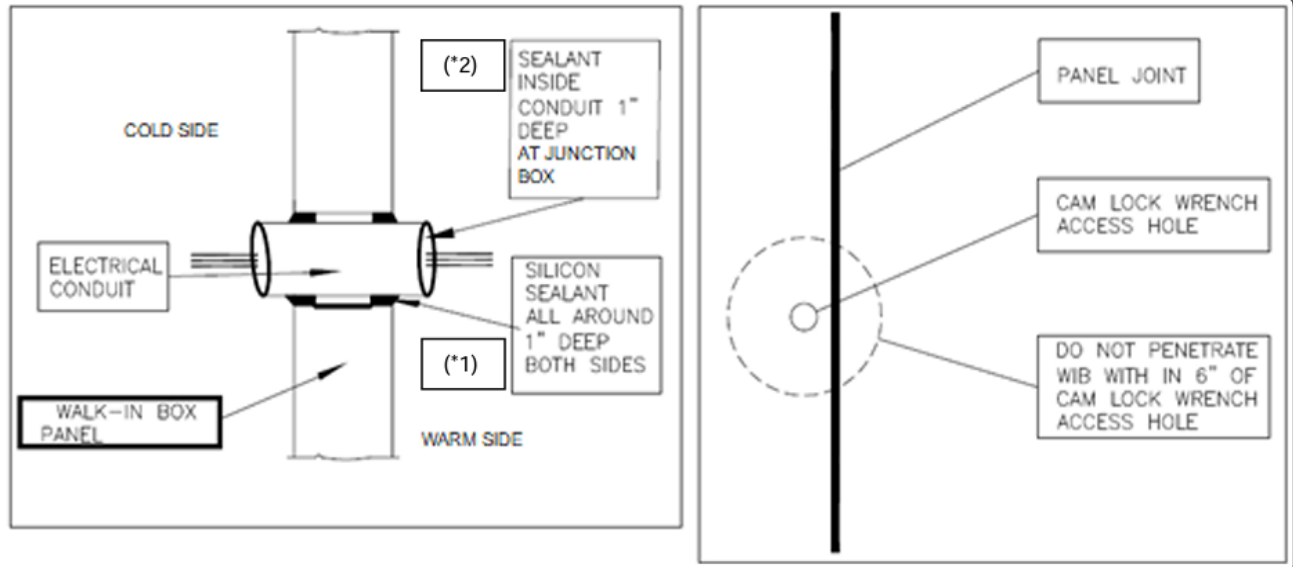
The enclosure does not have any predrilled holes or electrical outlets from the factory. **Drilling holes on the panels to run conduit, to bring power inside the cooler, is OK and will not void the warranty of the panels as long as the installation is done by a qualified electrician.**

All outlet boxes and junction boxes should be surface mounted.

On outdoor coolers, electrical installations should be done **ONLY AFTER** the outdoor membrane has been installed. **Make absolutely no roof penetrations for electricity or other services. All penetrations on outdoor coolers must go through the side walls on outdoor coolers.**

ATTENTION ELECTRICIAN!!

To prevent condensation from forming inside the walk-in, and inside the electrical boxes or the conduit, **all incoming electrical conduit runs must be sealed externally (*1) where it enters cold space, and internally at the junction box (*2)**

**REQUIRED ELECTRICAL AND CONNECTIONS****COOLERS WITH ONE 15K BTUs AIR CONDITIONER OR SMALLER (10K, 12K)**

A dedicated 120V 15-amp circuit required

- The electrician will have to install:
 - One 120V surface mount outlet box to plug in the CoolBot Controller and the A/C inside the cooler - on the right side of the A/C.
 - One 120V supply via conduit to the door panel light fixture/junction box, to provide power to the light and the factory pre-wired light switch (*see page 62*).
- A/C plug configuration (10K, 12K & 15K BTU):



COOLERS WITH ONE 18K BTUs AIR CONDITIONER

A dedicated 208/240V 15-amp circuit required

A dedicated 120V 15-amp circuit required

- The electrician will have to install:
 - One 208/240V surface mount outlet box to plug in the A/C inside the cooler - on the right side of the A/C.
 - One 120V surface mount outlet box to plug in the CoolBot Controller inside the cooler - on the right side of the A/C.
 - One 120V supply via conduit to the door panel light fixture/junction box, to provide power to the light and the factory pre-wired light switch (*see page 62*).
- A/C plug configuration (18K BTU):



COOLERS WITH ONE 24K BTUs AIR CONDITIONER

A dedicated 208/240V 20-amp circuit required

A dedicated 120V 15-amp circuit required

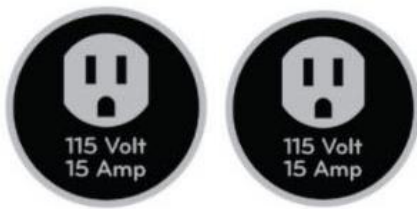
- The electrician will have to install:
 - One 208/240V surface mount outlet box to plug in the A/C inside the cooler - on the right side of the A/C.
 - One 120V surface mount outlet box to plug in the CoolBot Controller inside the cooler - on the right side of the A/C.
 - One 120V supply via conduit to the door panel light fixture/junction box, to provide power to the light and the factory pre-wired light switch (*see page 62*).
- A/C plug configuration (24K BTU):



COOLERS WITH TWO 15K BTUs AIR CONDITIONERS

Two dedicated 120V 15-amp circuits required

- The electrician will have to install:
 - Two 120V surface mount outlet boxes to plug in the CoolBot Controllers and the A/Cs. One outlet box per CoolBot and A/C inside the cooler - on the right side of each A/C.
 - One 120V supply via conduit to the door panel light fixture/junction box, to provide power to the light and the factory pre-wired light switch (*see page 62*). The door panel connection can be hooked up to either one of the two dedicated circuits - shared with one A/C and one CoolBot.
- A/Cs plug configuration (15K BTUs):

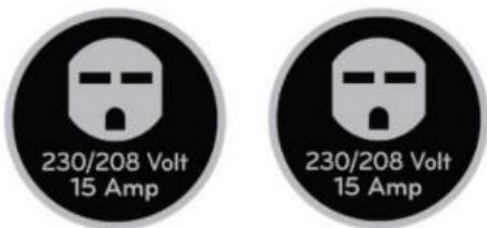


COOLERS WITH TWO 18K BTUs AIR CONDITIONERS

Two dedicated 208/240V 15-amp circuits required

A dedicated 120V 15-amp circuit required

- The electrician will have to install:
 - Two 208/240V surface mount outlet boxes to plug in the A/Cs, inside the cooler – one outlet box per A/C and installed on the right side of each A/C.
 - Two 120V surface mount outlet boxes to plug in the CoolBot Controllers, inside the cooler – one outlet box per CoolBot and installed on the right side of each A/C.
 - One 120V supply via conduit to the door panel light fixture/junction box, to provide power to the light and the factory pre-wired light switch (*see page 62*).
- A/Cs plug configuration (18K BTUs):



COOLERS WITH TWO 24K BTUs AIR CONDITIONERS

Two dedicated 208/240V 20-amp circuits required

A dedicated 120V 15-amp circuit required

- The electrician will have to install:
 - Two 208/240V surface mount outlet boxes to plug in the A/Cs, inside the cooler – one outlet box per A/C and installed on the right side of each A/C.
 - Two 120V surface mount outlet boxes to plug in the CoolBot Controllers, inside the cooler – one outlet box per CoolBot and installed on the right side of each A/C.
 - One 120V supply via conduit to the door panel light fixture/junction box, to provide power to the light and the factory pre-wired light switch (*see below*).
- A/Cs plug configuration (24K BTUs):



ELECTRICAL WIRING FOR THE DOOR PANEL

ATTENTION ELECTRICIAN!

The only connection you have to do at the door panel is at the light fixture.
Bring 120V supply through the ceiling or wall via conduit into the light fixture.
Connect inside the junction box to the white, black, and ground cables.

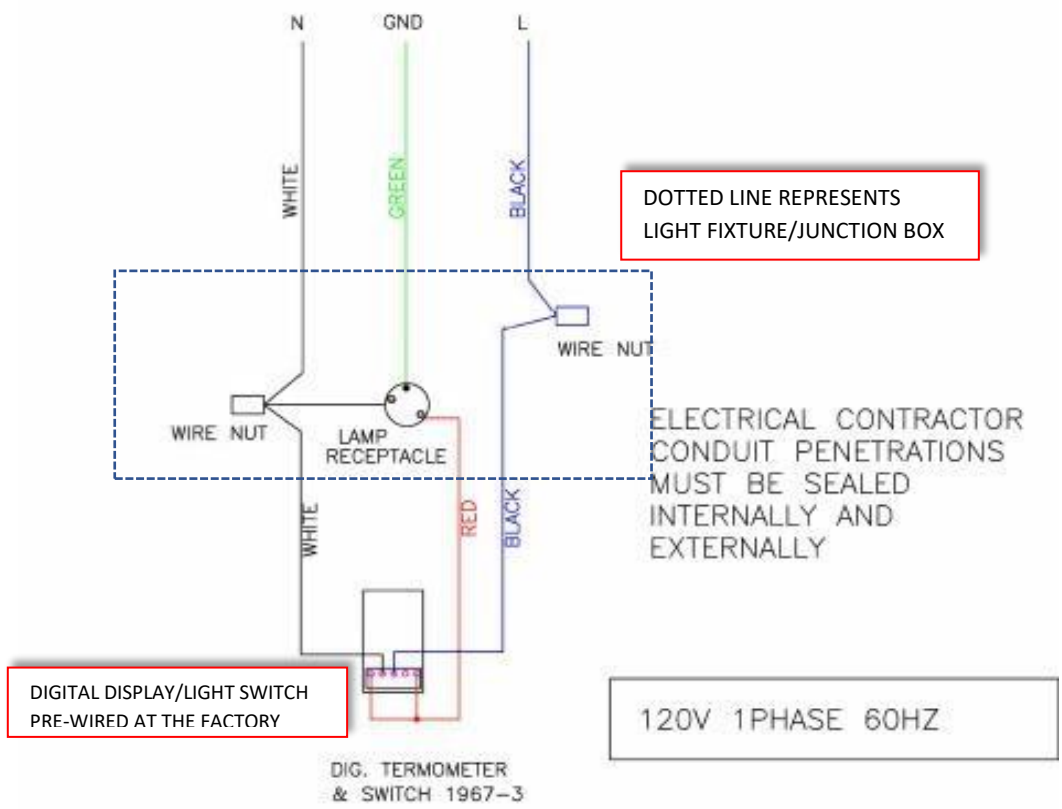
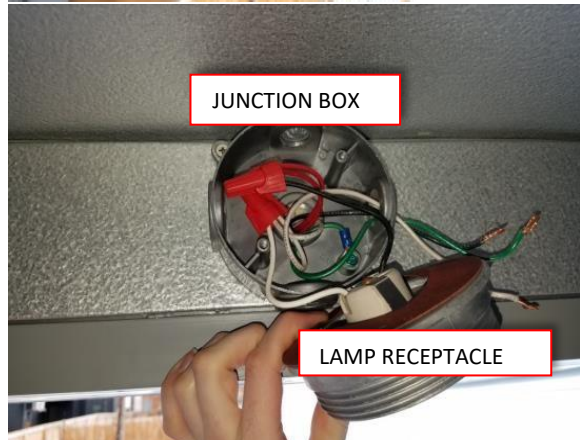
Wiring Diagram on next page for reference.

See pictures on next page on how to access the junction box/light fixture to connect the 120V incoming supply.

ELECTRICAL WIRING FOR AUXILIARY LIGHTS – 4' LED LIGHTS

All LED auxiliary lights must be connected via conduit using the red cable connection at the door light fixture/junction box as their hot line. All connections **MUST** be made by a qualified electrician to ensure compliance with National and Local Electrical Codes.

The sum of all lights installed in the cooler **MUST NOT** exceed 10 amps total.



LIGHT SWITCH, THERMOMETER AND LIGHT FIXTURE

CoolBot Walk-in coolers have a Kason 1967-3 light switch with a built-in thermometer.

The Cooler Switch, thermometer and light fixture have been **PRE-WIRED at the factory** through the door frame. The **ONLY** connection needed on the front of the cooler is a 120V supply line (Hot+Neutral+Ground) at the light fixture/junction box atop the door.

Once 120V supply has been provided to the light fixture/junction box atop the door, the light switch and thermometer should work. No extra wiring is needed!

LIGHT SWITCH OPERATION:

- Tap the yellow button to turn light ON or OFF
- Depending on temperature of room will read:
 - ✦ **FrE** or F1 / F2 [-40°F to 30°F] or [-40°C to -1°C]
 - ✦ **CoL** or C1 / C2 [32°F to 50°F] or [0°C to 10°C]
 - ✦ **Hot** or H1/ H2 [75 -104°F] or [24°C to 40°C]
- Temperature Units: Default °F, install small black jumper on the back of controller for °C
- Errors / Warnings:
 - ✦ **"B"**: Low battery (battery not included) – **battery is NOT necessary for normal operation**
 - ✦ **"Hot / H1 / H2"** room temperature is above 75°F
 - ✦ **"OFF"** temperature probe is not connected (install, re-check connection, or replace temp probe on the back of the controller)
- Small dots on the display during normal operation:
 - ✦ Far left light above temperature is the battery indicator (if a 12V is installed).
 - ✦ The next two indicate either degrees F, or C in the order left to right.

