



WALK-IN COOLER ELECTRICAL GUIDE

ELECTRICAL INSTALLATION



IMPORTANT!!

Electrical installation for your cooler SHOULD be performed by a qualified electrician to ensure correct power supply, wiring, and compliance with local codes.

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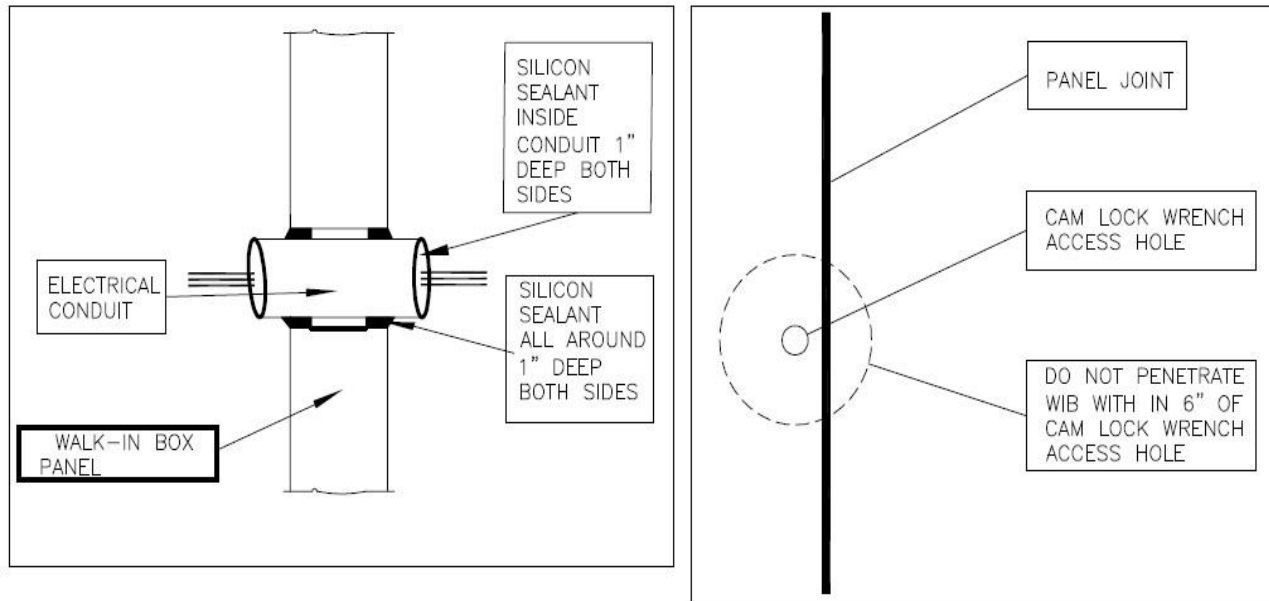
The enclosure does not have any predrilled holes or electrical outlets from the factory. Drilling holes on the panels to run conduit to bring power inside the cooler is OK and will not void the warranty of your panels - as long as the installation is done by a qualified electrician.

All OUTLET BOXES and JUNCTION BOXES installed should be surface mount.

On outdoor coolers, electrical installations should be done **ONLY AFTER** your 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, all penetrations with electrical conduit must be sealed internally where it enters cold space and externally (see figure below). Wall or ceiling penetrations must not interfere with panel seams or locking devices (see figure below).

**REQUIRED ELECTRICAL AND CONNECTIONS****COOLERS WITH ONE 15K BTUs AIR CONDITIONER OR SMALLER****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 front light atop the door to provide power to the light and the factory pre-wired light switch (see page 7).
- 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 front light atop the door to provide power to the light and the factory pre-wired light switch (*see page 7*).
- 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 front light atop the door to provide power to the light and the factory pre-wired light switch (*see page 7*).
- 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 front light atop the door to provide power to the light and the factory pre-wired light switch (*see page 7*).
- A/Cs plug configuration (15K BTUs):

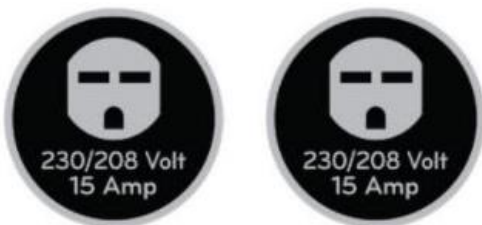


COOLERS WITH TWO 18K BTUs AIR CONDITIONERS

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 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 front light atop the door to provide power to the light and the factory pre-wired light switch (*see page 7*).
- 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 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 front light atop the door to provide power to the light and the factory pre-wired light switch (*see page 7*).

- A/Cs plug configuration (24K BTUs):



Electrical wiring for Door Panel (next page)

Electrical wiring for Door Panel

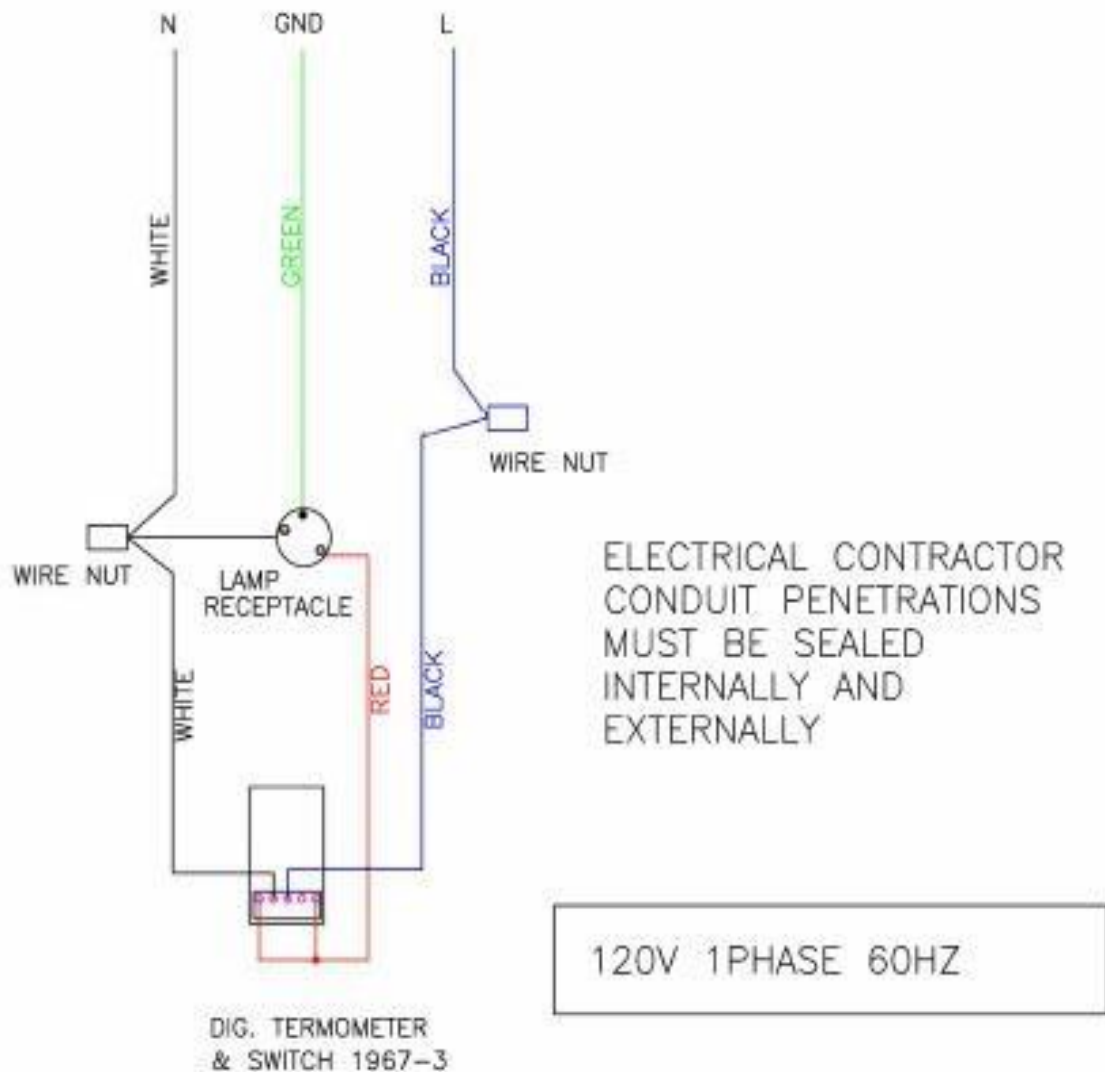
ATTENTION ELECTRICIAN!

The only connection you have to do at the door is at the light fixture. Bring 120V supply through the ceiling or wall via conduit into the light fixture.

Connect inside the box to the white, black, and ground cables.



Wiring diagram of the door and light connection on next page for reference



LIGHT SWITCH, THERMOMETER AND LIGHT FIXTURE

Your cooler has a Kason 1967-3 light switch with a built-in thermometer.

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

Once appropriate 120V power has been provided to the light fixture (junction box) your light switch and thermometer should work. No extra wiring is needed!

OPERATION:

- Touch 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 not necessary for 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.

