



# DUCTLESS INSTALL BEST PRACTICES



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## Electrical

- Use 14/4 stranded wire between indoor and outdoor units
- Do not splice these wires
- These are polarity sensitive: 1 to 1, 2 to 2, 3 to 3 and ground to ground
- All inverter equipment is sensitive to voltage fluctuations. A variance of +/- 10% can be tolerated. Always confirm voltage
- Confirm good grounds, they are critical for DC signals
- Surge protectors are recommended

## Piping/Charging

- Always use the correct line set sizes
- Observe the minimum/maximum line set lengths
- De-burr the ends when cutting copper
- Use 410A flaring tools
- Use the LG provided flare nuts
- Use torque wrenches when making flare connections
- Leak test, with dry nitrogen, to 550PSI
- Use fresh vacuum pump oil every time
- Evacuate the system to 500 microns
- Charge for all ductless systems is critical
- Follow instruction for adding additional/trim charge
- Charging should only be done using an electronic scale. Always weigh the charge in
- Gauges are useless
- Open valves prior to energizing the system
- If the system tries to start and powers down, the system is likely to be over charged
- If you don't have a good temperature split, the system is likely to be under charged