

**Ceiling Mount
24V THERMOSTAT
CONVERSION KIT
Installation Manual
(Inside Cellar)**

24V Thermostat Conversion Kit to be used in
conjunction with **Ceiling Mount**

Conforms to ANSI/UL Std 427

Certified to CAN/CSA Std C22.2 No. 120

We manufacture, test and certify 100% of our wine cooling units in the USA. By sourcing the best components and closely controlling our manufacturing processes, we can assure the highest-quality, lowest defect manufacturing rates in the industry.

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INTRODUCTION

Customer Service

Thank you for purchasing a WhisperKOOL 24-Volt Conversion Kit. We strive to provide the highest-quality products and the best possible customer service. If you have any questions about your system, please call us at 1-800-343-9463 or visit whisperkool.com.

Using the Manual

This installation manual is intended to provide detailed instructions for the installation of the 24V Thermostat Conversion Kit on the Ceiling Mount cooling system. In order to ensure the proper longevity of your cooling unit, the equipment should be installed as outlined in this manual. It is also vital to establish a proper care and maintenance schedule. Please read and review this manual carefully and keep it for future reference.

What is a 24V Thermostat Conversion Kit?

The 24V Thermostat Conversion Kit is a WhisperKOOL product that allows the customer to switch from the provided standard 120V controller to a 24V thermostat of their choosing (i.e. Nest, Ecobee, Honeywell etc.)

How Does the 24V Thermostat Conversion Kit Work?

The 24V Thermostat Conversion Kit allows the customer the ability to utilize a 24V smart thermostat to control the operation of their WhisperKOOL unit. Note: 24V Thermostat must be placed inside the wine cellar in a central location, away from direct airflow.

WARRANTY REGISTRATION

In order to activate the warranty of your system, the verification and operational documentation must be completed by the certified refrigeration technician installing your system and submitted via mail, fax or e-mail.

Mail to:

WhisperKOOL

ATTN: Warranty Registration

1738 E. Alpine Avenue

Stockton, CA 95205-2505

USA

Fax to:

209-466-4606

OR

OR

Scan and e-mail to:

warranty@whisperkool.com

For the equipment warranty to be valid, WhisperKOOL requires that the installation be performed by a certified HVAC-R technician (a NATE-certified technician is recommended) per the specifications outlined in the technician's manual. The technician must be equipped with the proper tools of the trade, including but not limited to: R-134a, brazing equipment, dry nitrogen, an accurate manifold gauge set (preferably digital), plus a four-valve manifold set for evacuation, digital micron gauge, digital scale, deep vacuum pump, and accurate digital thermometers. Without the proper equipment, a professional job cannot be accomplished. Evidence of the technician's NATE number or other certification is required.

STEP 1: RECEIVING & INSPECTING THE KIT

Upon receiving your 24V Thermostat Conversion Kit:

- Inspect the packaging for any obvious signs of damage or mishandling before opening the container.
- Note any discrepancies or visual damage on the bill of lading before signing.
- Review the packing slip to verify contents.
- Check the model number to ensure it is correct.

If any items listed on the packing slip do not match your order information, contact WhisperKOOL Customer Service immediately.

REMEMBER:

1. **Inspect the kit before installation.** If damage is found, please contact your distributor or WhisperKOOL Customer Service at 1-800-343-9463.
2. Verify that you have received all of the items on the component list below and that the kit corresponds with your specific WhisperKOOL cooling system.
3. The system is intended **for use in properly designed and constructed wine cellars.** Hire a professional wine storage consultant with a valid contractor's license to build your wine cellar.
4. WhisperKOOL recommends that all 24V Thermostat Conversion Kits be installed by a certified HVAC-R technician.
5. ***The warranty is not active until the warranty checklist has been received, reviewed, and approved.***

Evaporator unit components provided:

- 24V Conversion kit enclosure
- Installation Instructions
- Accessory Kit

Accessory Kit Items

- Grommet (x2)
- Cable tie (x8)
- Wire nut (x4)
- Keps Nut (x2)
- Pan Head Screw (x2)

Tools needed:

- Wire cutters
- Wire strippers
- Phillips #1 screw driver
- Phillips #2 screw driver
- Power drill
- 5/32" drill bit
- 5/16" drill bit
- 11/32" nut driver
- Permanent marker

Components needed (not included):

- 24V Thermostat
- 18-5 Thermostat wire

After verifying that you have received all of the correct components for your specific system, please keep the 24V Conversion Kit in its original box until you are ready for installation. This will allow you to move the product safely without damaging it. When you are ready to remove the product from the box, refer to the installation instructions.

TIP: Save your box and all packaging materials. They provide the only safe means of transporting/shipping the unit.

STEP 2: BEFORE YOU START



Shut off power to the evaporator and condensing unit.



Disconnect both the evaporator unit (air handler) and the condensing unit from their power source(s).



WARNING: Failure to disconnect the power may cause electrical shock, which can result in injury or death.



Note: If the unit is hard wired to a dedicated power source, shut off the designated breaker.

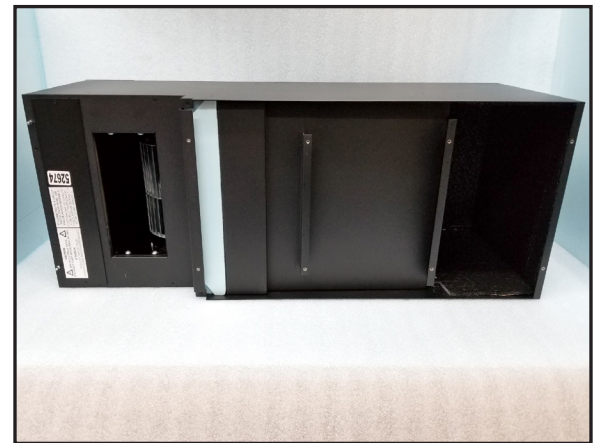
24V THERMOSTAT CONVERSION KIT INSTALLATION INSTRUCTIONS

- 3** Using a #2 Phillips screw driver remove the 8 screws that secure the grille in place.

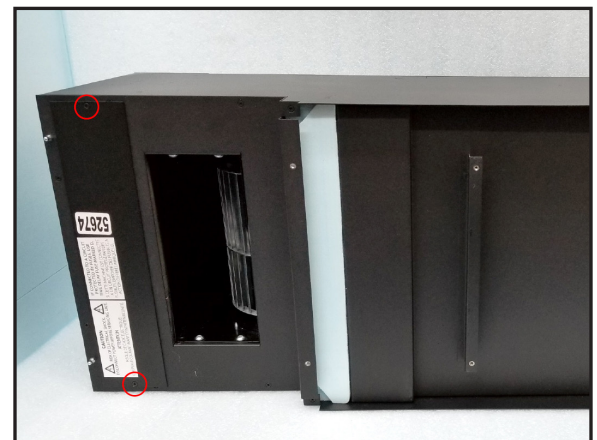
Note: Use caution as grille will not be supported once screws are removed.



- 4** Remove grille from unit and set aside.



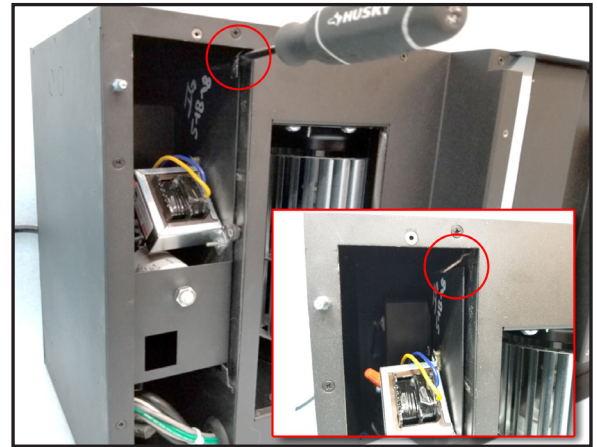
- 5** Remove (2) screws that secure electrical compartment cover plate.



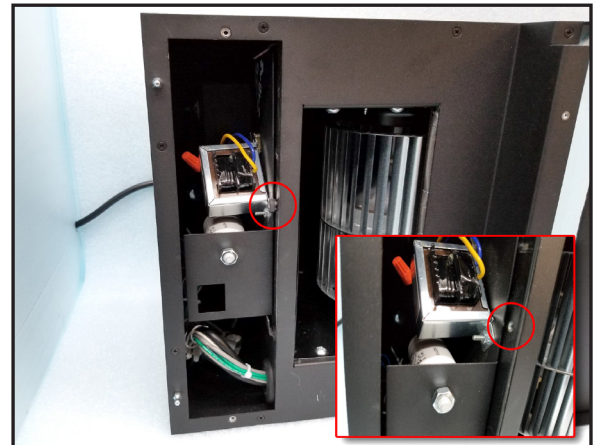
- 6** Remove electrical compartment cover plate.



- 7** With a flat head screw driver or needle nose pliers bend the electrical panel alignment tab outward as shown.



- 8** Remove thumb screw securing electrical panel in place.



- 9** Slide electrical panel down to access the components.

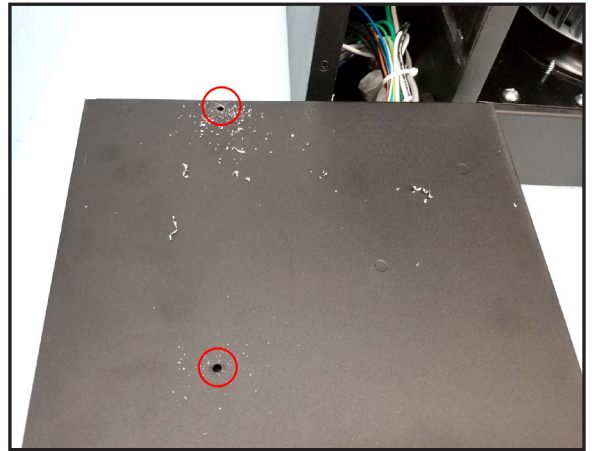
Note: Make sure that controller comes out all the way.



- 10** Flip the electrical panel over and locate (2) 5/32" rivets.



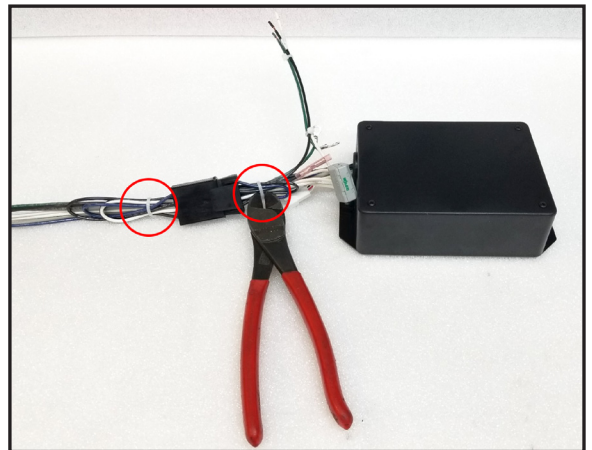
- 11** Use a power drill with a 5/32" drill bit to drill out both rivets which secure the enclosure to the panel.



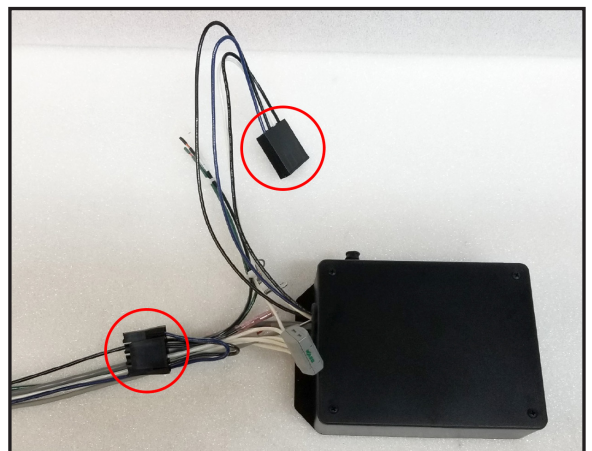
- 12** Flip electrical panel back over.



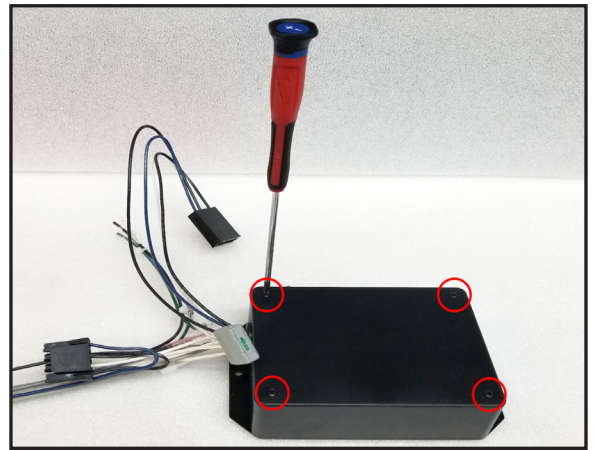
- 13** Cut zip ties securing wires.



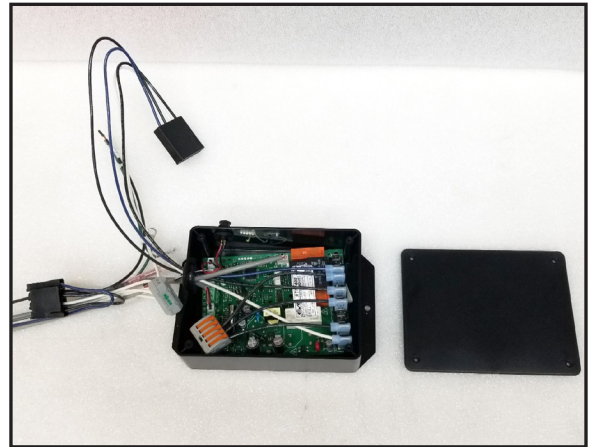
- 14** Unplug Molex connectors and separate the wires.



- 15** Remove the 4 screws from the enclosure lid.



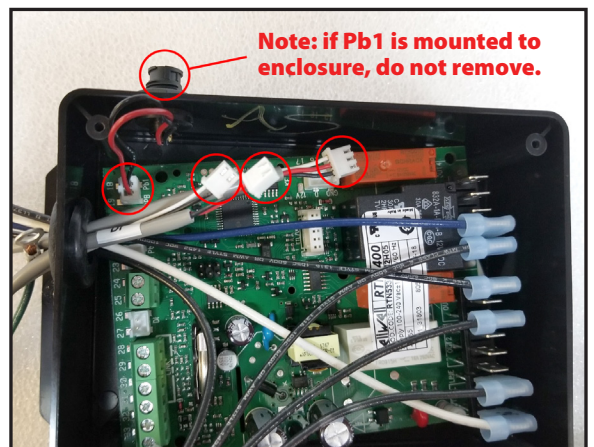
- 16** Remove the lid from the enclosure.



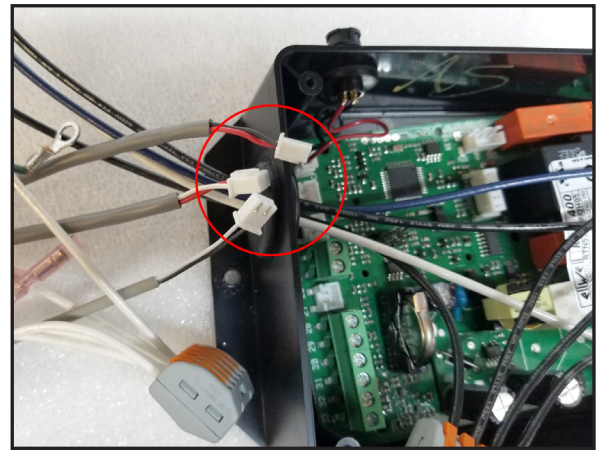
- 17** Locate Pb1, Pb2, DI and Display wires.



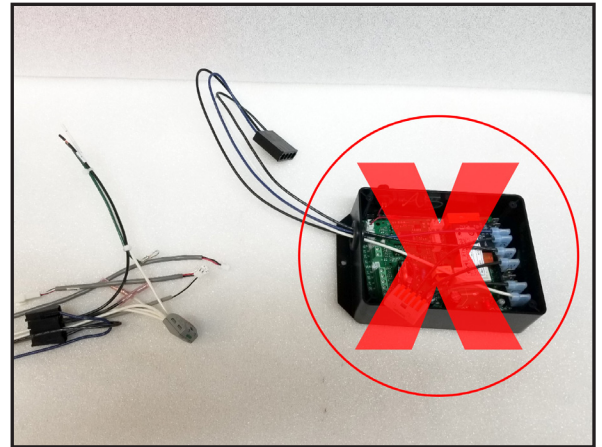
- 18** Disconnect Pb2, DI, Display, and Pb1 wires from the circuit board.



- 19** Remove the disconnected wires from the enclosure.

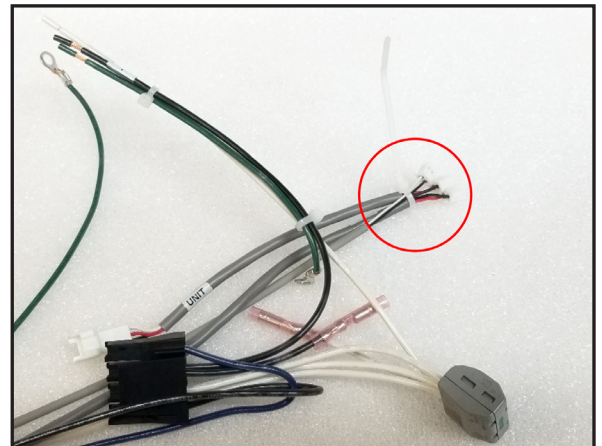


- 20** Separate controller assembly from the unit. Controller assembly is no longer needed.



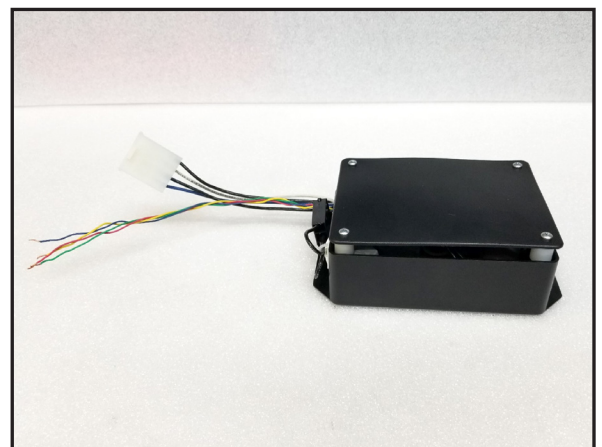
- 21** Isolate previously removed wires and secure with the provided zip ties.

Note: these wires will no longer be used, however, they need to stay with unit.

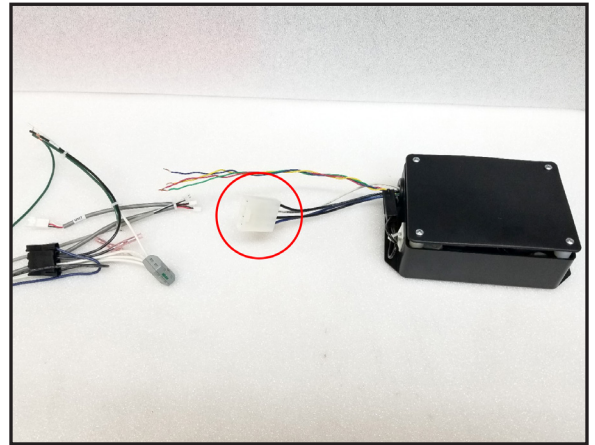


- 22** Locate the 24V Conversion Kit.

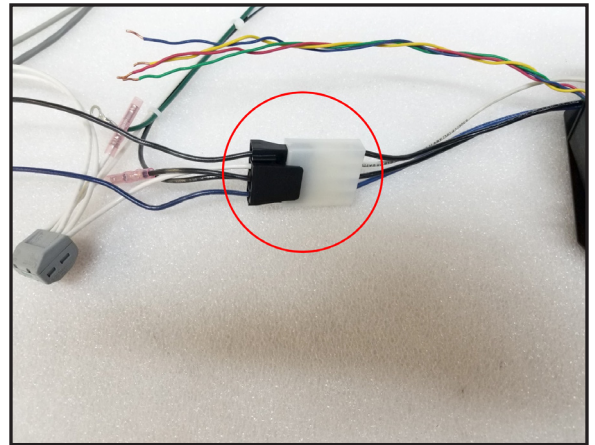
Note: Conversion Kit will be mounted in the same location where the previous controller box was mounted.



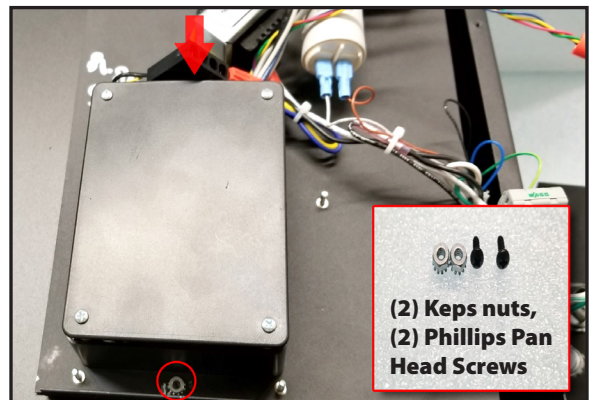
- 23** After the 24V Conversion Kit has been mounted in the designated location, locate the female Molex connector coming from conversion kit enclosure.



- 24** Connect the female Molex from the enclosure with the male Molex from the unit.

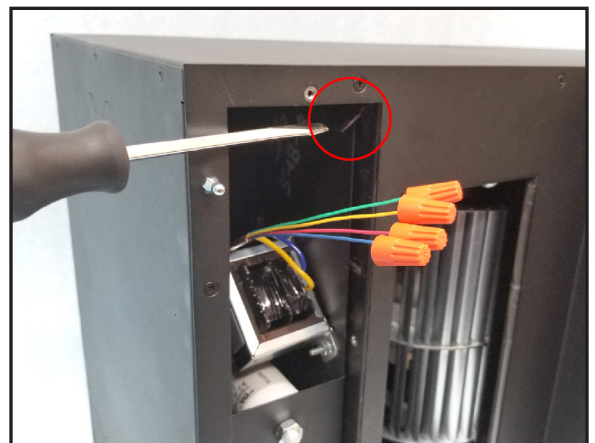


- 25** Use the provided hardware to secure the new 24V Kit enclosure to the electrical panel. Tools needed: 11/32" nut driver, #2 Phillips Screw Driver.

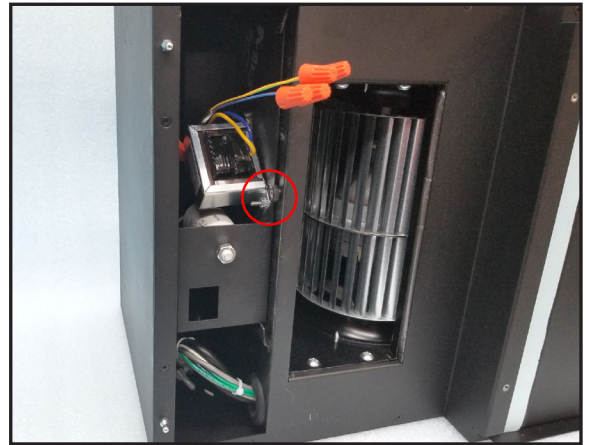


- 26** Use zip ties to secure wires in place neatly, then slide electrical panel into unit and bend electrical panel alignment tab back into original position.

Note: leave thermostat wires from kit accessible as shown.



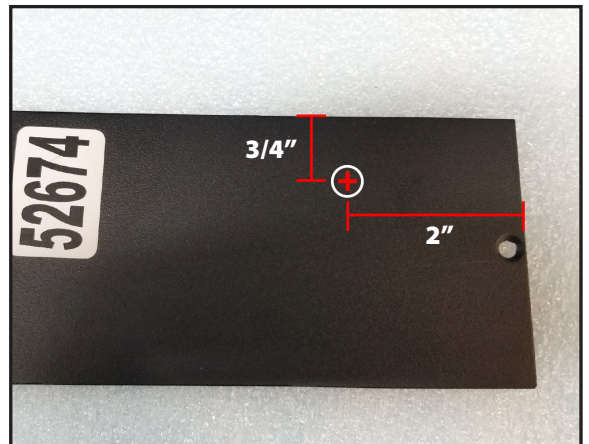
27 Reinstall thumb screw.



28 Locate the electrical compartment cover plate.



29 Measure and mark electrical compartment cover plate as shown.



30 Use a power drill with a 5/16 inch drill bit to create a hole at the previous mark.



31 Install the provided grommet into the hole.



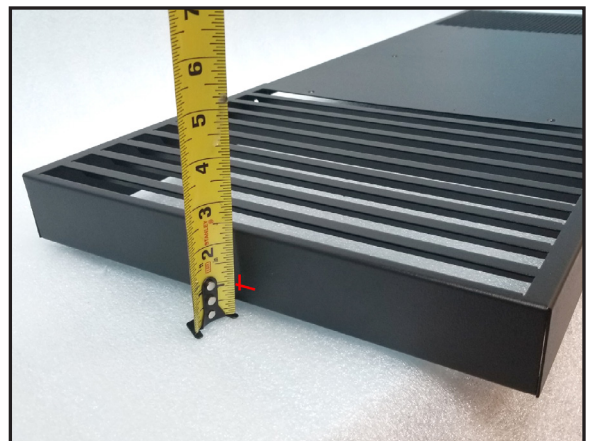
32 Locate grille.



33 Measure 7" from the edge of the grille and mark as shown.



34 Measure $\frac{3}{4}$ " from the bottom edge and mark as shown.



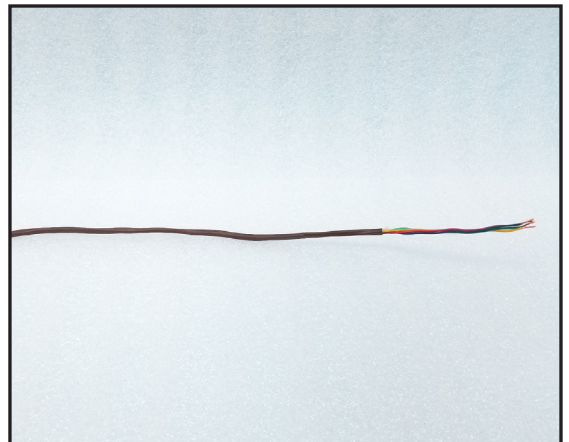
- 35** Use a power drill with a 5/16" drill bit to create a hole at the previous mark.



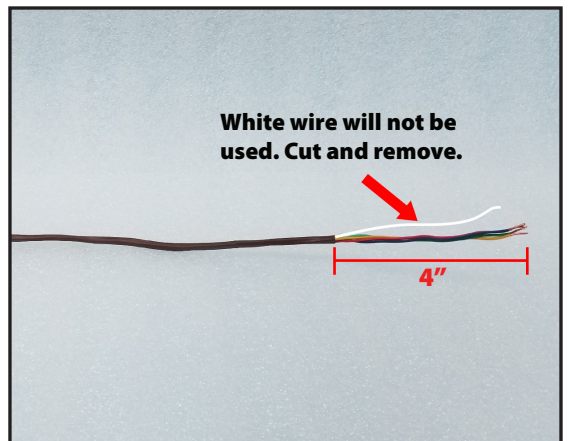
- 36** Insert the provided grommet into the hole.



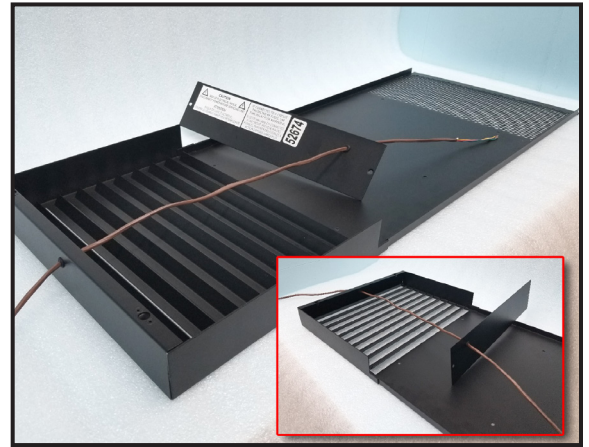
- 37** Route 18/5 thermostat wire from the thermostat location to the evaporator unit.



- 38** Strip off 4" from the thermostat wire casing. Cut and remove white thermostat wire. Strip off about 1/4" of the blue, red, green and yellow thermostat wire casing to expose the copper.



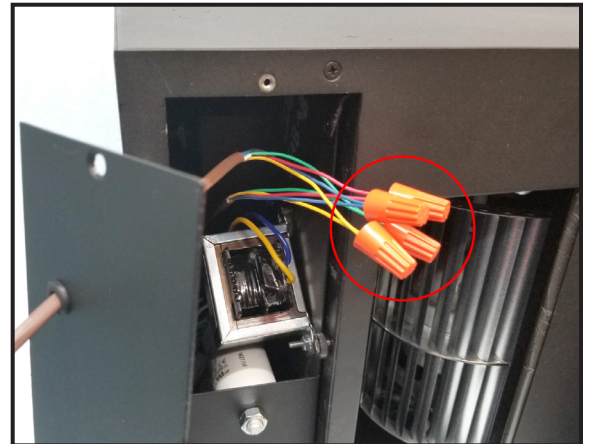
- 39** Insert thermostat wire coming from thermostat through grille and electrical compartment cover plate as shown.



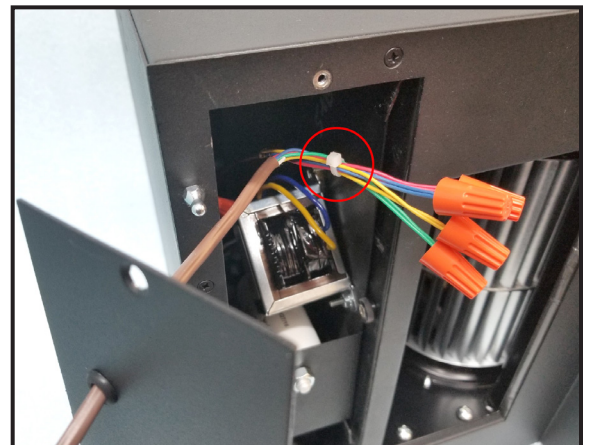
- 40** Place electrical compartment cover plate and thermostat wires close to the electrical compartment of the unit.



- 41** Connect thermostat wires with the provided wire nuts by color matching red to red, blue to blue, green to green and yellow to yellow.



- 42** Secure thermostat wires as shown using zip tie.



- 43** Ensure thermostat wires sit inside the electrical compartment and reinstall electrical compartment cover plate.



- 44** Reinstall grill. Conversion process is now complete.



The 24V Thermostat Conversion Kit has been successfully installed.

*Whisper***KOOL™**

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