



Skuttle®

Indoor Air Quality Products

Installation Instructions

**... for Models
2002 and 2102
High-Capacity
Fan-Powered
Flow-Thru
Humidifiers**

Contractor:
Read these instructions
before installing or
servicing humidifier.



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Contractor Assistance:

Phone: 888-SKUTTLE (758-8853)

Email: techservice@skuttle.com

Web: www.goskuttle.com

Technical assistance is only available in English.

Warnings and Cautions



WARNING: This high-capacity flow-thru humidifier must be installed by a qualified heating and air conditioning contractor. Failure to comply could result in serious injury from electrical shock, or damage to humidifier or heating appliance, or void all warranties.

ADDITIONAL WARNINGS:

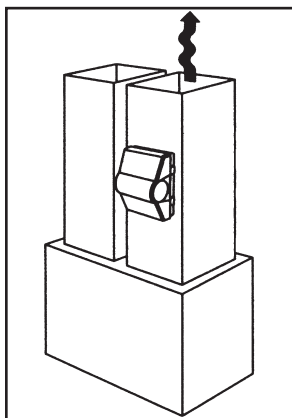
1. To avoid serious injury or electrocution, **disconnect electrical power to the furnace before starting installation.**
2. **Use care when cutting plenum openings and handling ductwork.** Sharp edges may cause serious injury.
3. **Do not cut or drill any air conditioning or electrical accessories** during humidifier installation. Electrocution is possible if you come in contact with a live electrical wire; blindness can occur if refrigerant contacts your eyes.

CAUTIONS:

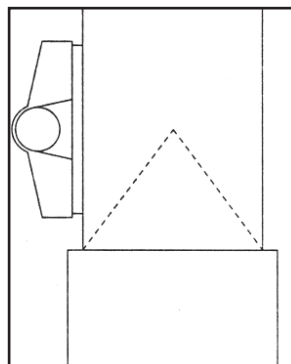
1. Do not install the unit where freezing temperatures could occur, or where temperatures could exceed 180°F (82.22°C).
2. Do not install the unit on a furnace jacket.

3. Do not install the unit on a plenum face where the blanked-off ends of the cooling coil restrict air movement through the humidifier.
4. Do not set humidity higher than recommended. Condensation damage may result.
5. Do not set humidity up to recommended levels if there is condensation on the inside windows of any living space. Condensation damage may result.
6. Do not install the unit on any plenum where static pressure exceeds 0.4 in. (1.02 cm) W.C.
7. Do not install the unit where water pressure exceeds 125 psi (861.85 kPa). Leakage may result. Follow relevant codes regarding pressure reduction.
8. Be sure that the installation, wiring and plumbing on the humidifier comply with local codes, ordinances and regulations.

Humidifier Placement



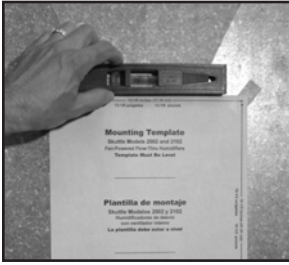
Mount the Model 2002 or Model 2102 Fan-Powered Flow-Thru Humidifier on the WARM AIR PLENUM ONLY.



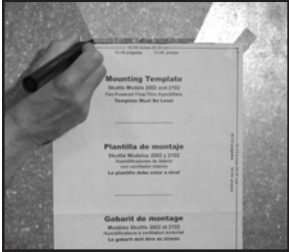
Position the humidifier as shown in relation to the AC cooling coils.

**Step-by-Step
Installation
Instructions ►►►**

Step-by-Step Installation Instructions



1. Locate the 2002/2102 mounting template in the humidifier carton. Tape the template lengthwise onto the furnace plenum, **making sure it is level.**



2. Trace around the template.* Remove the template. Accurately cut the plenum opening.

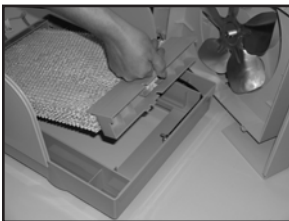
*Cutout size is 13-1/8 in. (33.34 cm) wide by 16-1/2 in. (41.91 cm) long.



3. Disconnect the humidifier control wires by grasping the nylon connector firmly and pulling straight out.



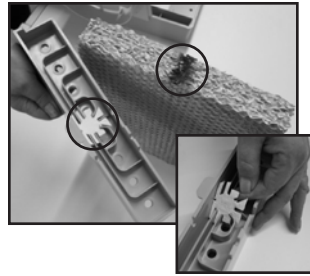
4. Remove the cover by turning the thumb screw (circled) counterclockwise (↺). Tilt and lift the cover off the frame.



5. Pull out the drip tray and evaporator pad assembly by grasping the top lip and tipping out.



6. Place the mounting frame into the plenum opening so that the frame hooks over the bottom of the opening. Screw the frame to the plenum.



7. Stand the evaporator pad upright with the index mark on top. Make sure the wick is seated securely in the drip tray.



8. Place the drip tray on top of the pad. Reinstall the evaporator pad and drip tray.

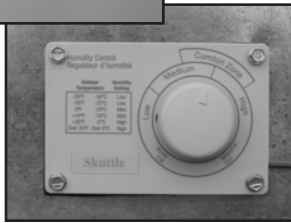


9. Reattach the cover assembly by hooking it at the top of the mounting frame. Secure the cover by turning the thumb screw at the bottom clockwise (↻).

IMPORTANT:

- **Step 10 refers exclusively to Model 2102**—fan-powered flow-thru with an automatic Compustat.
- **Step 11 and 12 (and its sub-steps) refer exclusively to Model 2002**—fan-powered humidifier with a manual Humidistat.
- **Steps 13-16 refer to both Models 2002 and 2102.**

10. To mount and wire Model 2102 and the Compustat ... refer to the Safety and Installation Instructions which come with the Compustat automatic humidifier control.



11. To mount Model 2002 ... position the humidistat on either an interior wall of the home or the return air plenum of the furnace. Install by following the instructions in the parts bag.

12. To wire Model 2002 and the Humidistat ... select the diagram and instruction (following) that matches your particular application.

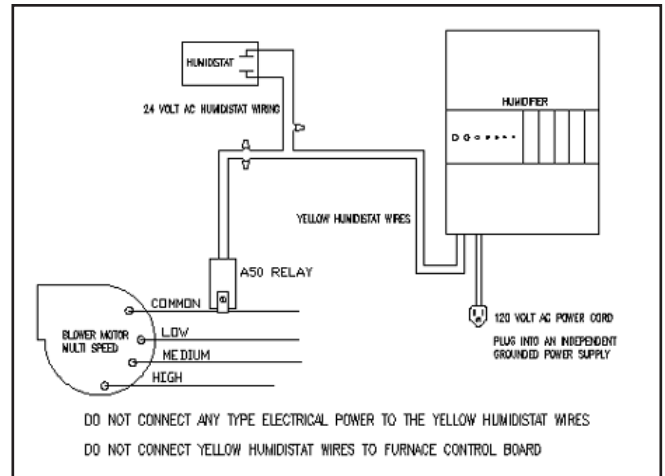
WARNINGS:

- **Shut off power before wiring.**
- **DO NOT** wire the Model 2002 humidifier to a circuit board UNLESS the board connections are 120 VAC. If, and only if, they are 120 VAC, install a receptacle and wire it to the board connections. Plug the humidifier into the receptacle.
- **DO NOT**, under any circumstances, wire the yellow solenoid wires to the circuit board or any other power source!

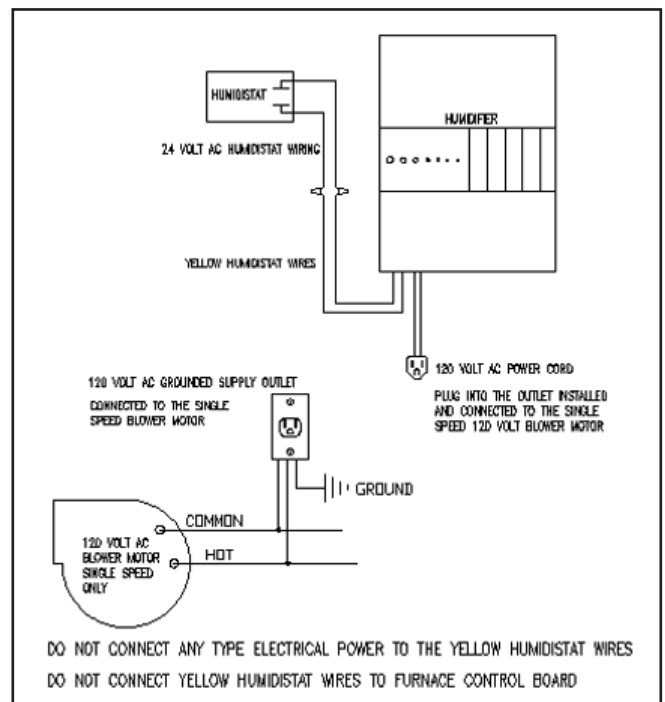
12a. Wiring Diagram A: Single-Speed Blower (above, right ↗).

For wiring the humidifier with a 120 VAC single-speed blower, locate the blower motor junction box. Wire in a receptacle for the 120 VAC humidifier plug. This will coordinate the humidifier and furnace system operations.

12b. Wiring Diagram B: Multi-Speed Blower (center, right ↗). For wiring the humidifier with a multi-speed blower, use an **A50 Current Sensing Relay** with an existing or independently wired, field-installed 120 VAC outlet. Plug the humidifier into the outlet.



Wiring Diagram A: Single-Speed Blower



Wiring Diagram B: Multi-Speed Blower

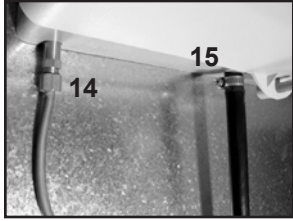


13. Tap into the water supply line using the saddle valve provided. Follow the directions on the saddle valve bag.

Step-by-Step Installation Instructions (cont'd.)

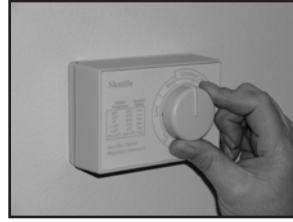
14. Connect **copper tubing** from the saddle valve to the solenoid valve. **(Do not use plastic tubing.)** Check for leaks.

The saddle valve must be fully opened or closed. Do not use the valve to regulate water flow.



15. Attach a 1/2 in. (1.27 cm) vinyl hose and clamp to carry

the flushing water from the unit to the drain. Be sure the drain hose has a constant pitch to the floor drain. **To avoid damage to the drain fitting, do not use solvent type adhesives when connecting the plastic hose to the humidifier.**



16. Test operation. Check for water leaks. Be sure the humidistat (or Compustat) is operating properly.

Model No. _____

Manufacture Date _____
(See label on unit)

Installation Date _____



Skuttle®

Indoor Air Quality Products

101 Margaret Street • Marietta, OH 45750
800-848-9786 • 740-373-9169
techservice@skuttle.com • www.goskuttle.com