

SUPPLEMENTAL SHEET

Model: Ventcool 1.8, 3.4 & 4.9
(1st and 2nd Generation Control Configurations)

The Ventcool Whole House Fan Systems have an alternative component configurations that could relate to VC 1.8, 3.4 and 4.9 models. This document is written to help technical service support these products.

The Installation Manuals effected are:

- Ventcool 1.8 Document #: 78010007000 (all revisions)
- Ventcool 3.4 & 4.9 Document #: 78010009000 (all revisions)

The WHF systems are made up of four main components: fan assembly, damper assembly, flex duct and electrical controls.

The electrical controls consist of a wall controller (ie: wall switch), electrical control box with PCB (with 3 or 5 Input RJ45 connectors), a 50 foot RJ45 cable, and a plastic wall bracket. On some models, the main electrical control box is mounted to the fan assembly (as shown in FIGURE 1). On some models, refer to FIGURE 2, the main electrical control box is a remote mount configuration shipped together in a cardboard board box that also includes an 8-12 foot long RJ45 cable (normally green in color) and the fan assembly has small connector box with single RJ45 connector with 120 VAC power cord (refer to FIGURE 3).

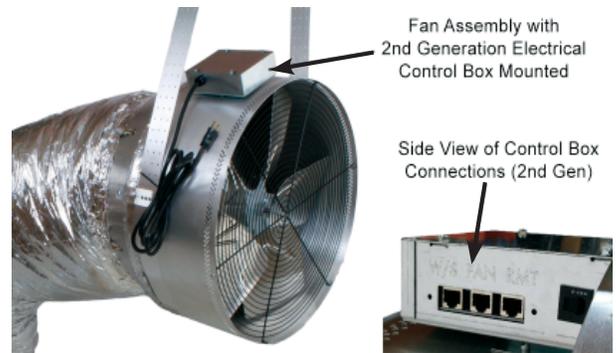


FIGURE 1 - Fan Assembly Mounted Electrical Control Box

Any Ventcool product that has a remote mount electrical control box similar to FIGURE 2 AND has a fan assembly similar to FIGURE 3 will require TWO (2) 120 VAC outlet connections. One for each 120 VAC power cords to plug into.



FIGURE 2 - Remote Mount Electrical Control Box

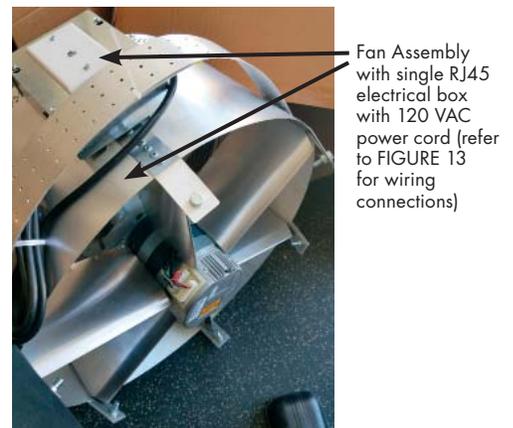


FIGURE 3 - Fan Assembly for Remote Mount Electrical Control Box



The flex duct connections can differ between:

1. Fan to duct has clip connection and duct to damper has clip connection (refer to FIGURE 4)
2. Fan to duct has screw connection and duct to damper has clip connection (refer to FIGURE 5)
3. Fan to duct has screw connection and duct to damper has screw connection (refer to FIGURE 6)

The clip connection is a clip and hook design. The clip is mounted on a band of sheet metal connected to appropriate end of the flex ductwork. The hook portion of the clip connection or fastener is connected to the appropriate end of the fan inlet cone or damper section outlet collar. The screw connection is made up of sheet metal pipe mounted to end of flex duct that slips overtop of either the fan inlet cone or damper outlet collar and is connected using self-drilling and self-tapping sheet metal screws.



FIGURE 4 - Fan to duct has clip connection and duct to damper has clip connection



FIGURE 5 - Fan to duct has screw connection and duct to damper has clip connection



FIGURE 6 - Fan to duct has screw connection and duct to damper has screw connection

The fan inlet cone and damper collar are shipped inside the flex duct box (refer to FIGURE 7). The fan inlet cone bolts to fan assembly housing (refer to FIGURE 8).



FIGURE 7 - Fan Inlet Cone (and sometimes Damper Collar) are shipped inside of Flex Duct Box

There are two different wall switches (or controllers) provided with the Ventcool product line. Refer to FIGURES 9 and 10 for the different wall switches. The simple wall switch has dip switches on the backside that require specific settings for the various Ventcool models to operation properly (these settings are provided in each of the appropriate manuals).



FIGURE 8 - Fan Assembly showing mounting tabs for Fan Inlet Cone



FIGURE 9 - Original Wall Switch



FIGURE 10 - Simple Wall Switch

The electrical connections vary between 1st and 2nd Generation Controls due to:

1. If control box is mounted to fan assembly verses remote control box
2. Wall Switch Type provided
3. Printed Circuit Board installed inside the various control boxes

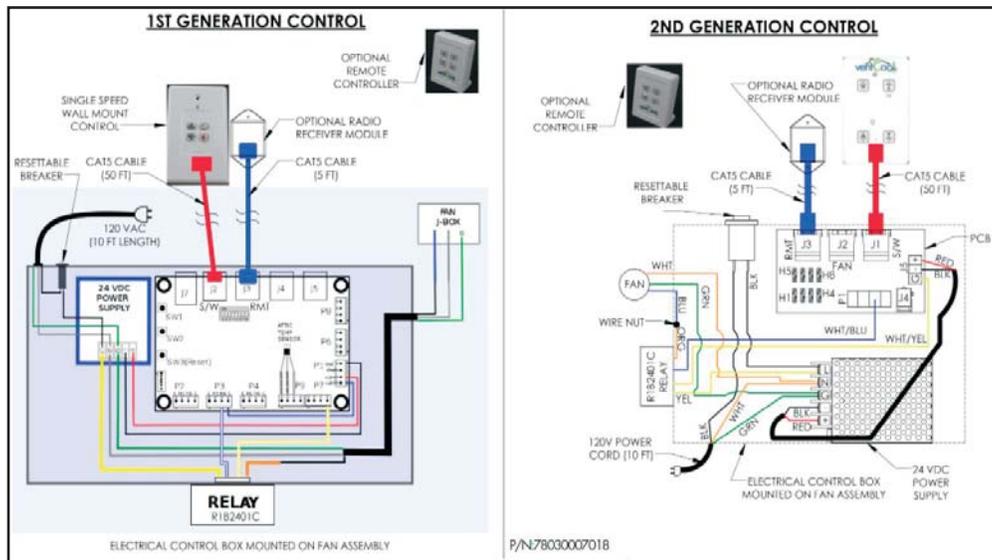


FIGURE 11 - Ventcool 1.8 Electrical Wiring (Electrical Box is Mounted to Fan Assembly)

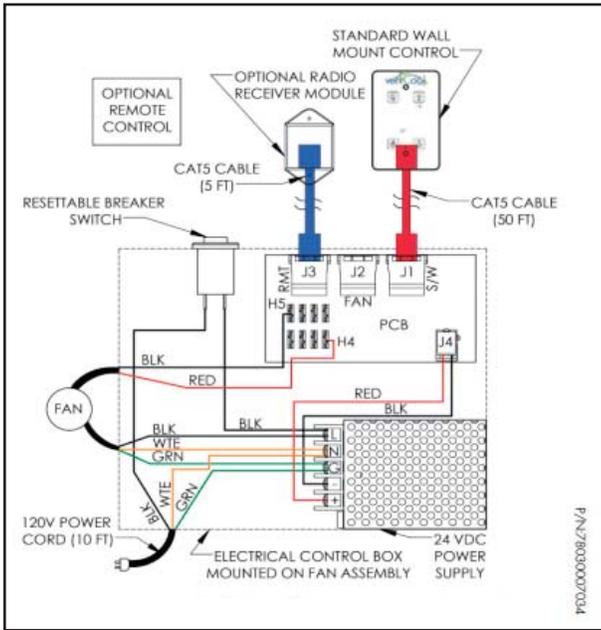


FIGURE 12 - Ventcool 3.4 and 4.9
(2nd Generation Control Electrical Box
is Mounted to Fan Assembly)

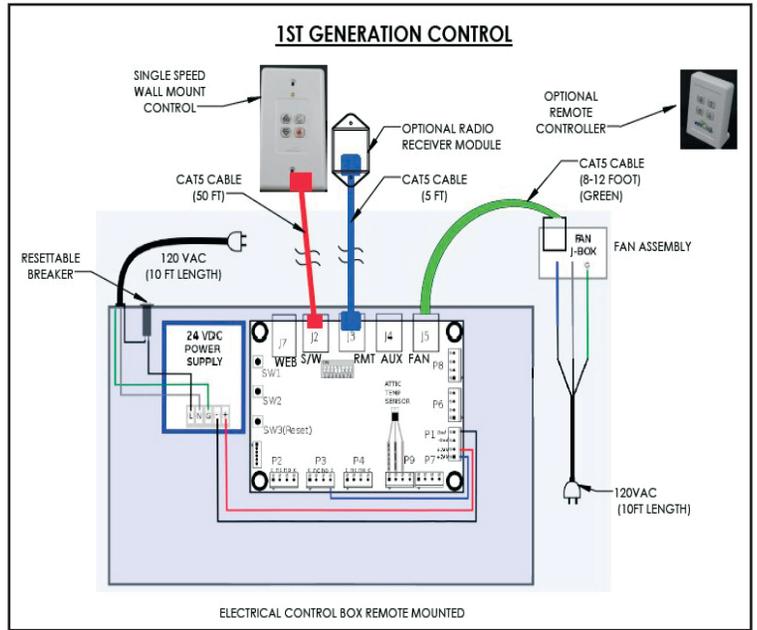


FIGURE 13 - Ventcool 3.4 and 4.9
(1st Generation Control Electrical Box is
Remote Mounted)

This supplemental sheet may be downloaded
and printed from the Field Controls website
www.fieldcontrols.com

Field Controls Technical Support
1.800.742.8368
Fieldtec@fieldcontrols.com



www.fieldcontrols.com