INSTALLATION MANUAL

VentCool™ 1.8

WHOLE HOUSE FAN

ITEMS INCLUDED (GENERATION 1 & 2):

- Fan assembly with electrical control box
- Chain (25 ft.)
- Duct tape (30 ft.)
- 7 ft. of acoustic flex duct (16" diameter)
- Backdraft Damper; Backdraft Damper Transition Cone; and, ¼" Phillips head screws (12)
- White cube core grille & White phillips head screws (8)
- Wood screws (8)
- Self-tapping sheet metal screws (4)
- S-Hooks (4)
- Control Package, including: Control box; Wall Controller Switch with Mounting Bracket; and Red CAT-5 cable (50 ft.)

SUPPLIES NOT INCLUDED & REQUIRED TOOLS:

- Phillips head screw driver
- Scissors or Knife
- Pliers
- Drywall Cutter
- Cordless screwdriver with Phillips head and miscellaneous drill bits
- High quality latex caulk
- Lumber matching dimensions of the attic joists (e.g. 2"x6", 2"x8", etc.) and cut to fit according to the INSTALLATION: FRAMING section.
- At least 4 additional wood screws
- A ladder

This device MUST be installed by a qualified agency in accordance with the manufacturer's installation instructions. The definition of a qualified agency is: any individual, firm, corporation or company which either in person or through a representative is engaged in, and is responsible for, the installation and operation of HVAC appliances, who is experienced in such work, familiar with all the precautions required, and has complied with all the requirements of the authority having jurisdiction.

Please retain these instructions after installation.

Installed By: _____ Phone: _____ Installation Date: _____

ventCool

FIELDCONTROLS

Thank you for purchasing a VentCool™ ducted Whole House Fan by Field Controls. This fan has been designed to provide many years of natural, quiet, and energy-efficient cooling.

Please take a few minutes to read over this manual and its accompanying documents to make sure you are prepared to install the Whole House Fan system. In particular:

- The homeowner/resident should read the WHERE TO LOCATE section so that the fan will be correctly located to maximize its effectiveness and efficiency.
- The VENTILATION REQUIREMENTS section is also particularly important, as it describes the minimum attic ventilation neccessary to operate the fan.
- The INSTALLATION: BACKDRAFT DAMPER section contains important information regarding the constraints within which this fan's backdraft damper must be installed.

Before installing this fan, inspect it and all of its parts for any damage it may have sustained during shipping. **DO NOT INSTALL DAMAGED EQUIPMENT.** If you suspect this fan has been damaged during shipping, contact Field Controls technical support by phone at 1.800.742.8368, or email at fieldtec@fieldcontrols.com.

Whole House Fans are designed to be installed within a home's attic, which makes them and their sub-components extremely difficult to access once installed. **TEST THIS FAN OUTSIDE OF THE ATTIC BEFORE INSTALLING IT PERMANENTLY.**

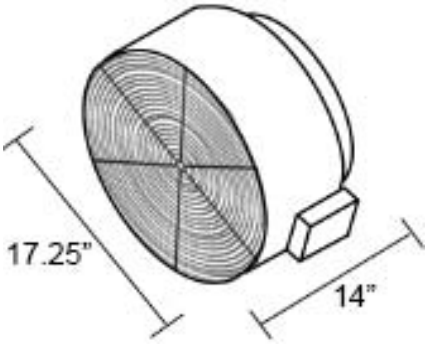
SAFETY CONSIDERATIONS

Some of the principles of this product's safe installation and operation are not immediately obvious. Read the following safety information before continuing further:

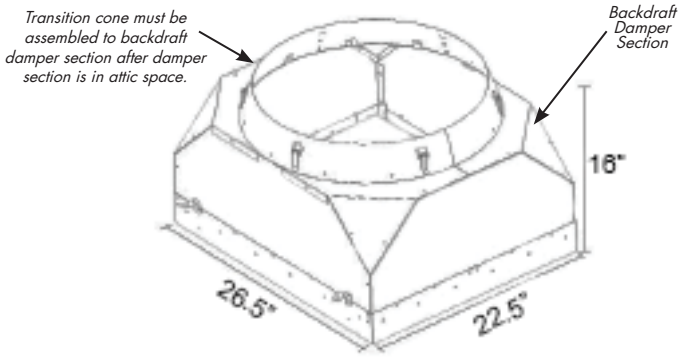
- **Never** operate this fan without a window or door opened.
- This fan is meant for general ventilation. **It has NOT been designed to ventilate particle laden and/or explosive mixtures of air and must NOT be used for such.**
- This fan is NOT for use in kitchens
- **Before installing or servicing this fan, switch power off** at the home's electrical panel to reduce the risk of damaging circuit boards, fire, electrical shock, or injury.
- Install this fan in accordance with this manual and all local codes and standards.

UNIT PARTS AND DIMENSIONS

FANASSEMBLY

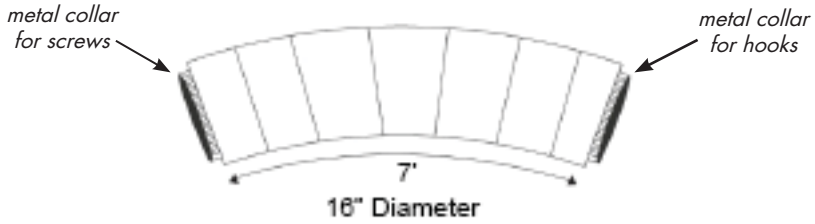


BACKDRAFTDAMPERASSEMBLY



** Backdraft Damper shown with Transition Cone attached*

FLEX DUCT



BACKDRAFT DAMPER INFORMATION

The gravity backdraft damper provided with the VentCool 1.8 unit does not provide an airtight seal or insulated barrier between the living space and attic. It is the homeowner's responsibility to ensure the unit is sealed and/or insulated during the winter.

ELECTRICAL REQUIREMENTS

The VentCool 1.8 model **requires a 120 volt, 9 amp uninterrupted electricity supply. We strongly recommend providing a dedicated circuit for this fan.**

This unit is provided with a single speed controller and a minimum 10 ft power cord measured from the electrical control box to power cord plug end. Consider these lengths when choosing a location for this fan to be mounted. Depending on the location of existing outlets in the attic, the installation of additional outlet may be required. Consult an electrician if necessary.

All wiring and connections must be made according to this manual and acceptable wiring standards. All local codes must be followed.

VENTILATION REQUIREMENTS

It is **critical** that the attic be sufficiently ventilated for this fan to operate properly. Without adequate ventilation, hot air exhausted from the home cannot easily escape from the attic, which creates back-pressure that will substantially reduce the fan's performance. Operating this fan in an attic with less net free ventilation area than recommended will decrease its airflow and energy efficiency.

We recommend **a minimum** of 1 square foot of "net free" ventilation area per 500 cfm at a fan's highest speed. **Therefore, the VentCool 1.8 Whole House Fan requires at least 3.5 square feet of net free ventilation area for proper operation.**

Net free ventilation area can be provided by any combination of gable, eyebrow, roof cap, soffit, or ridge vents, or any other method of ventilating the attic space. The openings of most vents are partially obstructed by grilles, louvers, and/or screens. A vent's "net free" ventilation area is the surface area of its opening minus the surface area of any grilles, louvers, or screening covering it. Different types of vents have different ratios of net free area to total area.

While in our experience most properly constructed homes have adequately ventilated attics, not all do. Because sufficient ventilation is so critical to this fan's performance, it is important that the home's existing ventilation be verified before it is installed.

Manufacturers typically publish their vents' net free ventilation areas and/or ratios in their products' specification documents. If this information is unavailable, a ratio of 50% net free area to total area is usually a good rule of thumb. A notable exception to this rule of thumb are ridge vents. The industry standard net free ventilation area for ridge vents is 13% of the vent's length in feet.

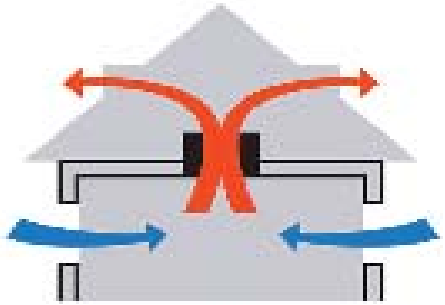
Since most attics have multiple vents, often of different types, it is necessary to count each vent, noting its type and size. Apply the appropriate ratio to the dimensions of each vent to find its net free area, and sum these values to find the attic's total ventilation. An example of how these calculations are made is given in the table below:

Vent Type	Dimensions	Total Area	Net Free Area Ratio ("NFA")	Net Free Ventilation Area (=Total Area x NFA)
Louver	24" x 24"	24" x 24" / 144 = 4 ft.^{2}	50%	4 ft.^{2} x .50 = 2 ft.^{2}
Ridge	10 feet	n/a	13%	10 feet x .13 = 1.33 ft.^{2}
Round Soffit	10" diameter	3.14 x 5" x 5" / 144 = .55 ft.^{2}	50%	.55 ft.^{2} x .50 = 0.28 ft.^{2}
			Total Net Free Ventilation Area:	3.61 ft.^{2}

Please consult a roofing professional if the attic's net free ventilation area remains uncertain.

WHERE TO LOCATE THIS FAN

The best location for this fan is dictated by its theory of operation: As a home heats up during the day, a large amount of heat is retained in its structure and contents. These materials give up their heat slowly and, in doing so, continue to heat the home's interior even though the outdoor temperature may, in fact, be very comfortable in the evening and at night. Thus, homeowners are forced to either endure the hot conditions inside of their homes or turn on their air conditioners and bear the expense thereof.



When operated properly, this whole house fan can resolve this dilemma by forcing the hot air inside a home out and drawing cool air from outside in. The illustration to the right depicts how this fan exhausts hot air into the attic and draws cool air into the house from outdoors through open windows and/or doors.

By running this fan through the night, homeowners can extract the maximum possible amount of heat from their home's structure and contents. This essentially "pre-cools" the home ahead of the rise in temperature the next day, which reduces or can even eliminate the need for air conditioning. This VentCool Whole House Fan has been designed specifically for quiet and efficient operation. As such, we strongly recommend homeowners run this fan through the night to reduce their energy expense.

With the above theory of operation in mind, adhere to the following guidelines when choosing a location for this fan:

- Locate this fan in a central location, away from windows that will be opened during its operation. Installing this fan centrally promotes an even replacement of air throughout the home, and the longer the path of air travels from an open window to the fan, the greater the cooling effect.
- The damper provided with this fan can only be installed in a horizontal orientation, thereby requiring the unit to be installed in the ceiling.
- Locate this fan at the highest point possible. This exploits natural convection and helps the fan exhaust the hottest indoor air from the home.
- Typically, the ideal location for this fan in a two-story home is in the open area at the top of the stairs.
- Avoid locating this fan in a narrow space or over hard flooring as sound reflecting off of hard surfaces can amplify its percieved noise.
- Even though this fan is extremely quiet, we specifically recommend against installing it in a bedroom as humans' perception of noise is far greater when the surrounding environment is quiet (such as within a bedroom at night).
- Within the attic, locating the fan near an electrical outlet or power supply can minimize the need for additional electrical work.

INSTALLATION: FRAMING

The first step in installing this fan is to build a simple "box" between the framing in the ceiling and to create an opening into the attic. This fan's backdraft damper has been designed to fit within a 22½" x 26½" ceiling opening. Most modern homes have been constructed with either 24" or 16" on-center (O.C.) spaced joists or studs. This step varies slightly depending on whether the home's framing is either 24" or 16" O.C.

For 24" O.C. Framing:

Using appropriately sized lumber (e.g. 2"x4", 2"x"6, etc.), install two 22½" long cross pieces between the existing framing, creating a box with interior dimensions of 22½" x 26½". Figure 1 at right shows the framing and cross pieces as they should be installed.

For 16" O.C. Framing:

Using appropriately sized lumber (e.g. 2"x4", 2"x6", etc.), install four 14½" long and one 22½" long cross pieces between the existing framing, as shown below in Figure 2A.

Next, use lumber to construct a second frame with interior dimensions of 22½" x 22½". As shown below in Figure 2B, mount this new frame on top of the frame created within the joists.

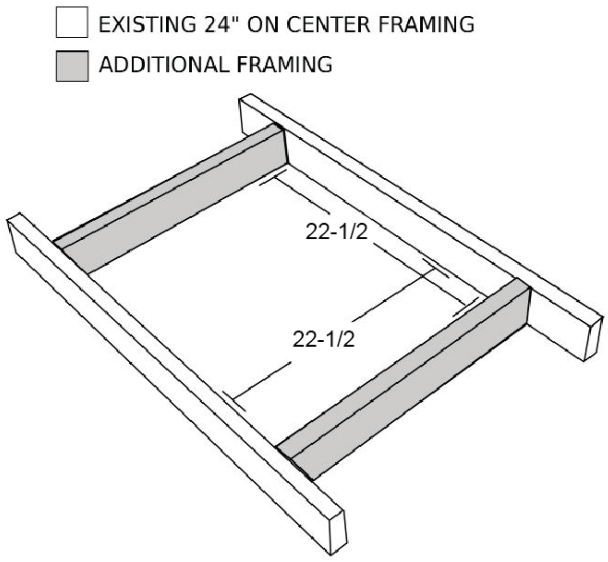


FIGURE 1

From below, cut out the drywall inside the framed box to create an opening to the attic. To know where to cut, use a stud finder to locate the studs from below or drill pilot holes from above.

In this configuration, a notch will need to be cut in the Grille in order to accomodate the center joist running accross the opening. Procedures for this step are included in the INSTALLATION: GRILLE section of this manual. The center joist across the opening will not significantly disturb the flow of air to the fan.

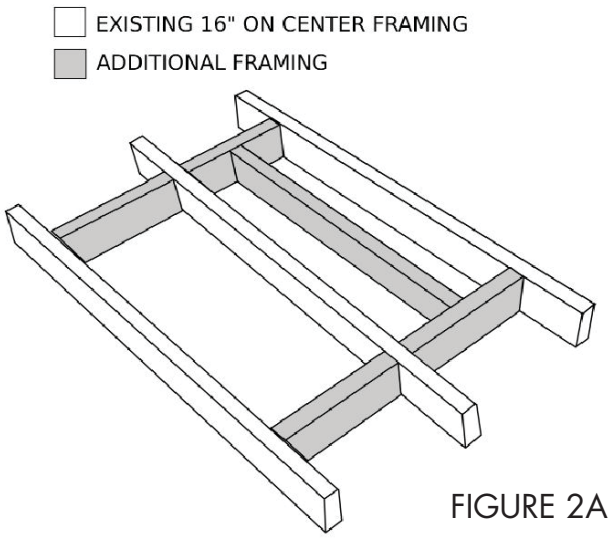


FIGURE 2A

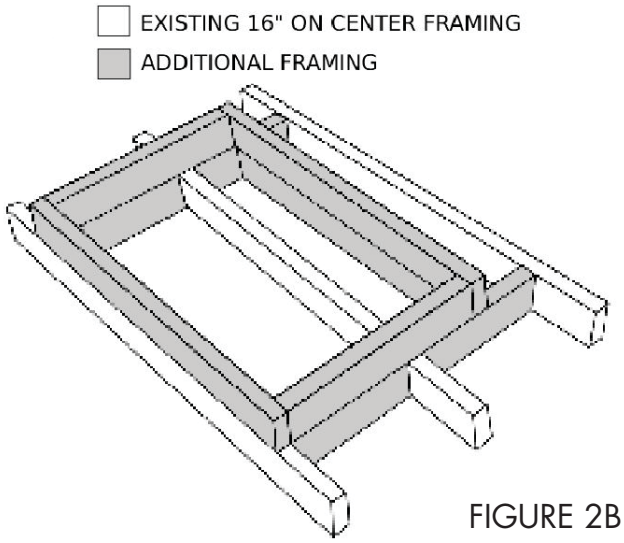


FIGURE 2B

INSTALLATION: BACKDRAFT DAMPER

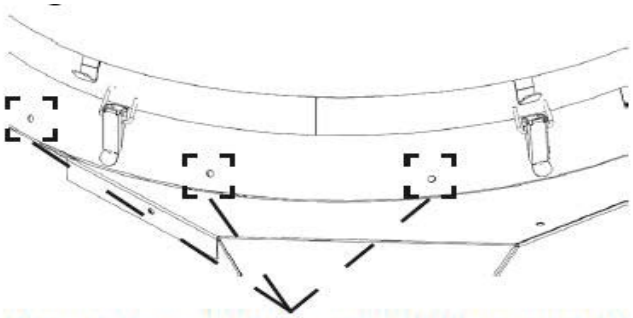
The next step in this fan's installation is to install the backdraft damper within the "box" that was built in the previous step.

However, before proceeding further, please make sure to pass the fan assembly and ductwork through the opening created in the previous step and into the attic. These items have been designed to fit through this opening. Since they may not fit through the attic's crawl hole, they **must** be in the attic before proceeding further.

Once in the attic, attach the backdraft damper transition cone to the backdraft damper itself. Using the 12 provided ¼" phillips head damper screws, secure the cone to the damper at each of the 12 brackets around the circular rim of the damper and pilot holes in the cone (shown in Figure 3 at right).

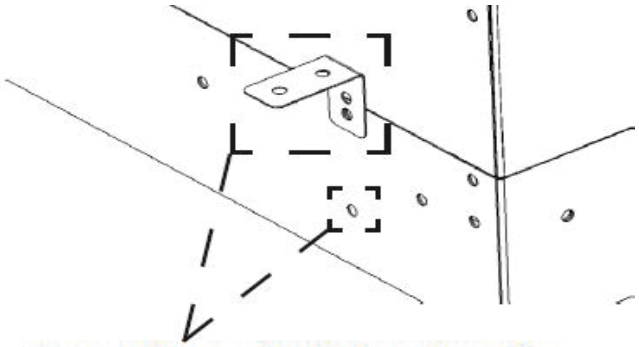
Lower the backdraft damper into the framed "box" previously constructed, resting it on the joists using the mounting brackets shown at right in Figure 4. Fasten the damper box to the joists using wood screws through the pilot holes on mounting brackets.

Then, return to the living space. Further secure the damper box to the joists with wood screws through the four pilot holes in the body of the damper box.



Attach the transition cone to the backdraft damper at each bracket and pilot hole using the provided ¼" phillips head screws.

FIGURE 3



Secure damper box to framing using wood screws at the mounting brackets and pilot holes.

FIGURE 4

Backdraft Damper Orientation Note

The ideal orientation of unit's backdraft damper is level within the framing. If necessary, however, the damper can be installed at a slight angle within the following constraints:

As shown in Figure 5 at right, the damper has two distinct axes: The "Y" axis about which its doors open; and the "X" axis perpendicular thereto.

As shown in Figures 6A and 6B, the damper can be installed with the "Y" axis at a slight angle. However, this angle must NOT exceed 45° (as shown in Figure 6C).

The "X" axis must NEVER be installed at any angle (as shown in figures 7A and 7B). Installing the backdraft damper outside of these constraints will prevent its doors from closing properly!

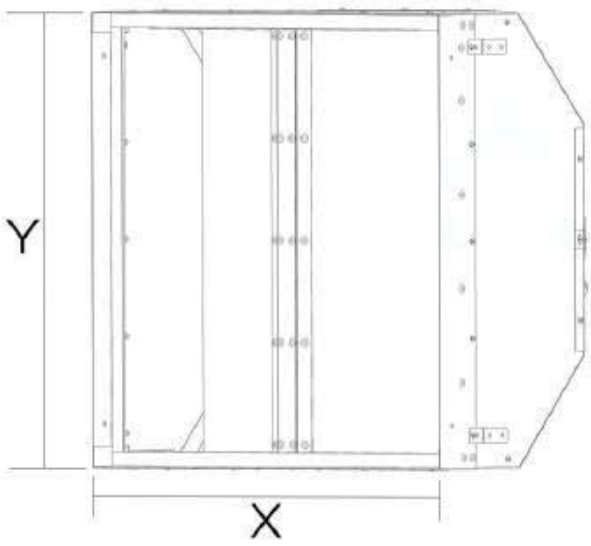


FIGURE 5:
Bottom Side of Backdraft Damper Assembly

FIGURE 6A

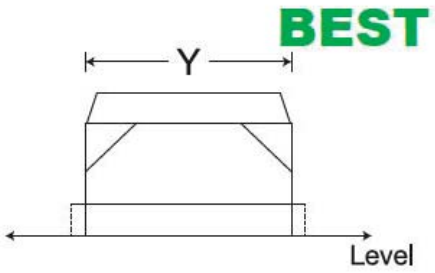


FIGURE 6B

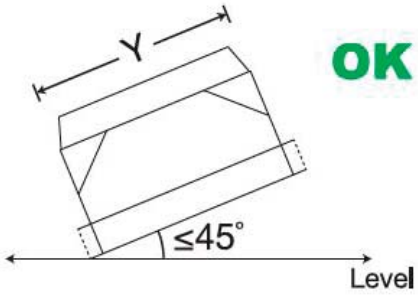


FIGURE 6C

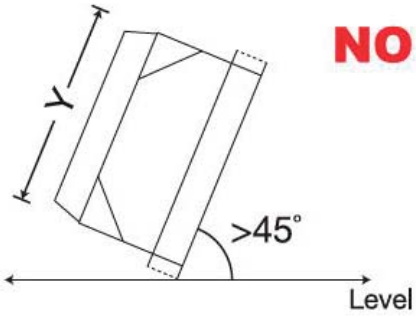


FIGURE 7A

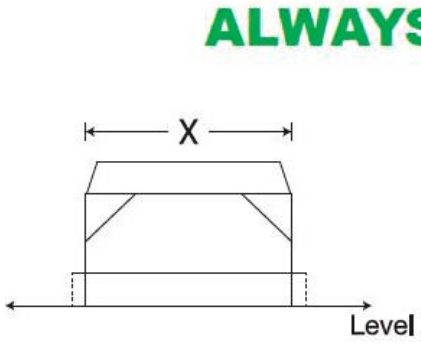
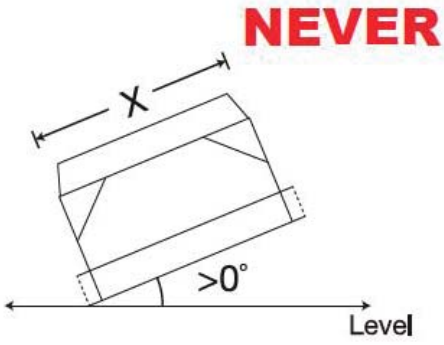


FIGURE 7B



INSTALLATION: FAN & DUCT

The next step in this fan's installation is to hang the fan assembly from the attic's rafters, and to attach it to the backdraft damper using the provided ductwork. Figure 8 below shows the fan assembly, ductwork, and backdraft damper as they should appear when fully installed.

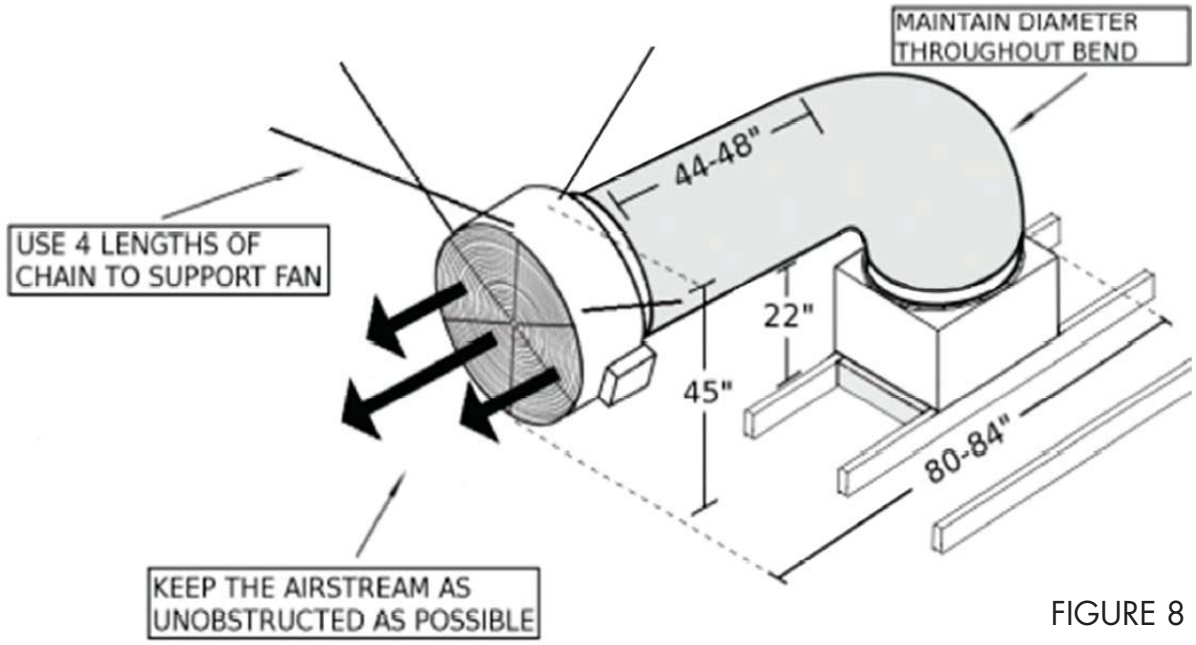


FIGURE 8

Attach 4 lengths of the provided chain to the the attic's rafters at four locations using wood screws (**NOT provided**) screwed through a chain link. Measure and cut the chain to specific lengths desired for installation.

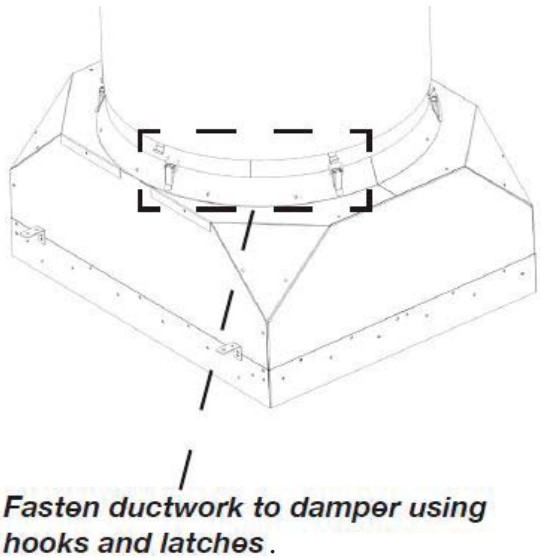
Attach the 4 provided S-hooks to 4 of the D-rings attached to the fan housing. Hang the fan assembly from the rafters using these S-hooks and the 4 lengths of chain just installed.

When hanging the fan assembly, adhere to the following guidlines:

- Do not hang the fan using fewer than 4 lengths of chains or eye bolts—all four attachment points are necessary to support the fan's weight and to eliminate any swaying motion.
- Ensure that the fan is as level as possible.
- Keep the area in front of the fan as unobstructed as possible: At the least, the nearest object obstructing the path of fan's exhaust airflow can be no closer than 24" to the face of the fan.

Next, slide one end of the flexible ductwork over the backdraft damper's transition cone and secure it thereto using the hooks on the ductwork's collar, and the latches on the cone, as shown at right in Figure 9.

If needed, the transition collar can be rotated to better align the hooks and latches. Simply unscrew the screws securing the cone to the damper (highlighted in Figure 3 on the previous page), rotate the cone, and reattach it to the damper using the screws.



Fasten ductwork to damper using hooks and latches.

FIGURE 9

Gently bend the ductwork to a 90° angle and slide the free end onto the fan cone and fasten it thereto using the self-tapping metal screws on the ductwork's collar to the fan cone (as shown at right in Figure 10)

Adhere to the following guidelines when attaching the ductwork to the backdraft damper and fan cone:

- Make sure to maintain the full diameter of the ductwork through the bend; this provides adequate airflow and helps minimize noise.
- Avoid sharp bends in the ductwork or contact with metal fixtures, pipes, or conduits.
- The section of ductwork immediately before the fan should be as straight as possible.
- The ductwork can be supported under the bend using extra chain wrapped with a protective material (e.g. carpet)

Once the fan assembly is balanced and secure, use pliers to close all of the S-hooks to ensure stability, and tape down all unused D-rings to avoid excess rattling.

Lastly, use the provided foil tape to seal the joints between the fan assembly and ductwork, the ductwork and the transition cone, and the transition cone and backdraft damper.

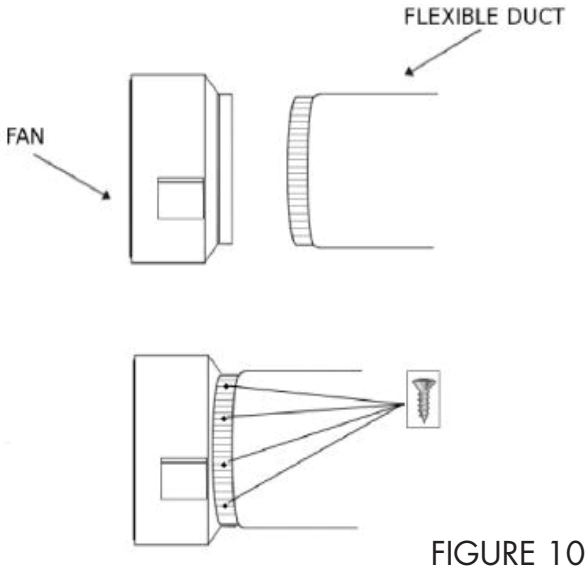


FIGURE 10

INSTALLATION: GRILLE

The next step in this fan's installation is to mount the cube core grille over the interior opening in the ceiling previously created. First, from the living area, use latex caulk to seal all wood-to-wood and wood-to-metal joints. This ensures that all air drawn into the fan will be from within the living space.

Then, attach the grille to the joists using the 8 provided white head screws. We advise pre-drilling pilot holes for these screws. If the home's framing is 16" O.C., use a dremel tool or hacksaw to cut two notches in the grille's flange to accomodate the middle stud, Figure 11 below shows this notch.

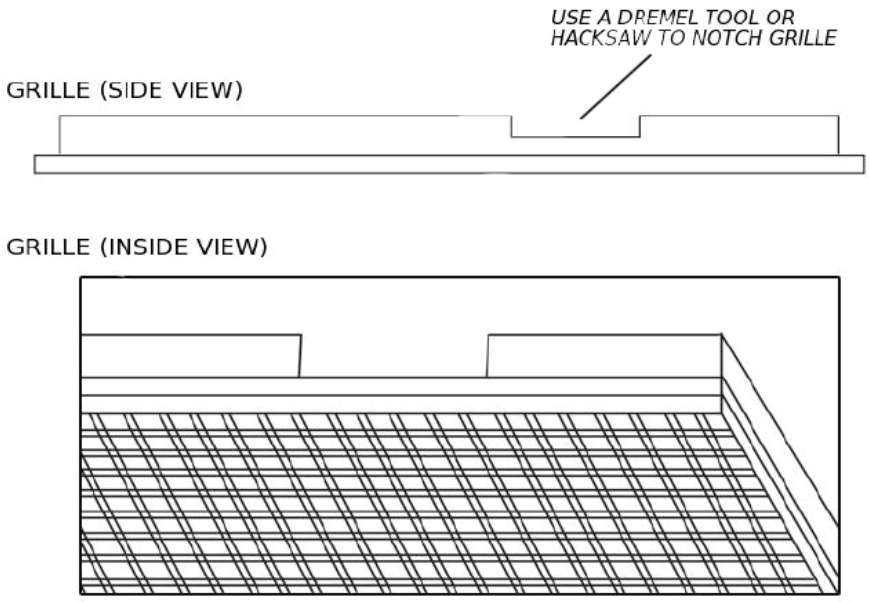


FIGURE 11

INSTALLATION: WIRING & CONTROLS

The final step in this fan's installation is to install its controls. The VentCool 1.8 unit can be equipped with two different control packages: 1st generation or 2nd generation. Either control package works the same with controlling the operation of the fan. The standard control package included with this fan contains: the control box, 1 wall switch, 1 mounting bracket for the wall switch, and 50 ft. of red CAT5 cable.

First, locate the control box. The control box is an 12.375" x 5.5" x 2.0" galvanized steel electrical box. It is connected to the fan assembly and has a series of RJ45 ports on one side. These ports are labeled with the following label (refer to Figures 12A or 12B, depending if unit is equipped with either 1st or 2nd Generation control package):

FIGURE 12A: Electrical Control Box Port Labeling - 1st Generation Control Package

FIGURE 12B: Electrical Control Box Port Labeling - 2nd Generation Control Package

The green FAN, white WEB and yellow AUX ports are not used by this fan.

WALL SWITCH INSTALLATION: (Refer to Figure 12A or 12B for Electrical Control Box Port Labeling)

Connect the red CAT5 cable to the red **W/S** port located on the electrical control box on the \fan housing. Then, run the cable through the attic and **down the wall to the desired location for the wall switch (Refer to Figure 13A or 13B for additional wall switch nomenclature). Note: This cable is low-voltage but unshielded. Building Codes require unshielded low-voltage wiring to be run through shielded conduit. Do not run cable in parallel with 110V or greater wiring.**

Connect the included wall switch **to the fan's control box regardless of whether or not it will be installed in a wall. Because an accessible wall switch is necessary for providing technical support, this switch MUST be installed. FAILURE TO INSTALL THE WALL SWITCH WILL VOID THIS FAN'S WARRANTY!**

If it is not desired to be installed in a wall, connect the switch to the control box's red W/S port and leave it stored in the attic with the cable kept spooled.

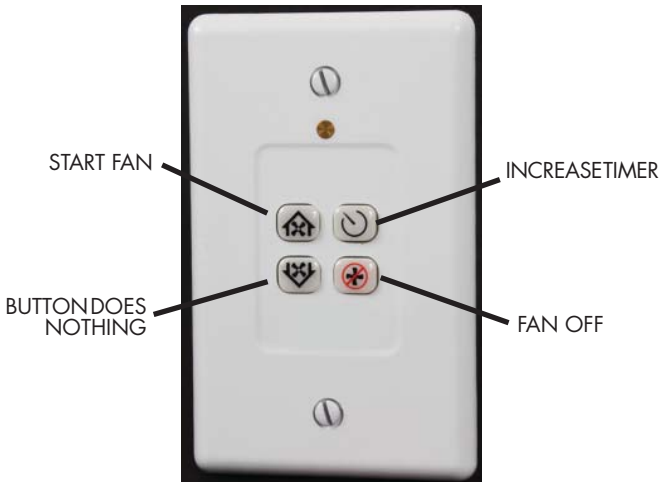


FIGURE 13A:
1st Generation Wall Switch

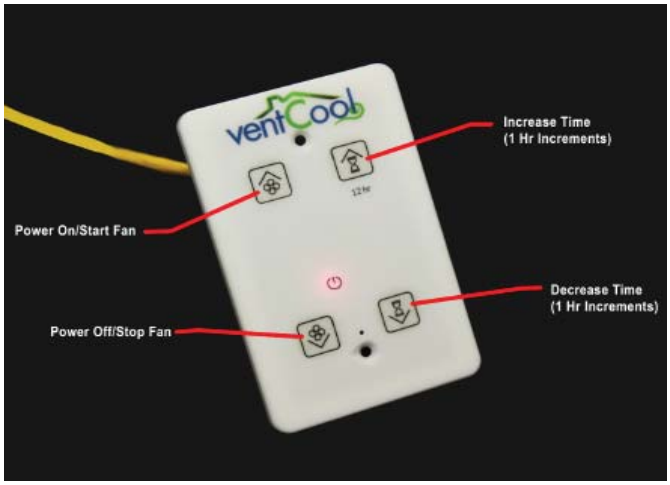


FIGURE 13B:
2nd Generation Wall Switch

Using the provided wall mounting bracket (Figure 14) as a template, trace an outline on the wall where you would like the switch to be located. Following this outline, cut a hole for the mounting bracket, place it inside, and secure it with the locking tabs by tightening the silver screws. Then, connect the free end of the red CAT5 cable to the port on the back of the wall switch. Set the switch in place and secure its face plate to the mounting bracket using the attached white screws.

The 2nd generation control (Figure 13B) is configurable for multiple VentCool product lines which means it can be configured to operation in different modes. Refer to Figure 15 when setting DIP switches for VentCool 1.8 operating parameters. **Verify the wall switch control panel DIP switches are set to switches 1 & 3 are ON and 2 & 4 are OFF.** This setting will allow the wall switch to operate as a single speed, 12 Hr timer configuration.

CAUTION: Failure to properly set wall switch configuration will cause the ventCool WHF system to not work.

FIGURE 14: Wall Mounting Bracket

START-UP & OPERATION

The following instructions for operating this fan have also been provided in the "How to Operate Your Whole House Fan" **document included with this fan.**

Before starting this fan for the first time, verify that:

1. All wiring and connections have been made according to this manual and acceptable wiring standards, and that this manual and all local codes and standards have been followed in this fan's installation.
2. No tools or construction debris have been left in, on, or around the fan.
3. The fan's power cord has been plugged into a 120-volt outlet with uninterupted power.

Each of this fan's control interfaces (hardwired wall switch or wireless remote) looks and operates the same: There are four buttons that turn the fan on or off, and set its timer. The VentCool 1.8 is a single speed fan.

FIGURE 15: Wall Switch DIP Switch Settings for 2nd Generation Control package

POWER CONNECTION

After unit and wall switch are installed, plug the attached power cord into a 120 Volt, 60 Hz, 9 amp minimum, grounded outlet with uninterrupted power. For reference, Figure 16 shows the general wiring scheme of the VentCool 1.8 system including optional accessories. Verify the resettable breaker on the electrical control box on fan assembly has not tripped.

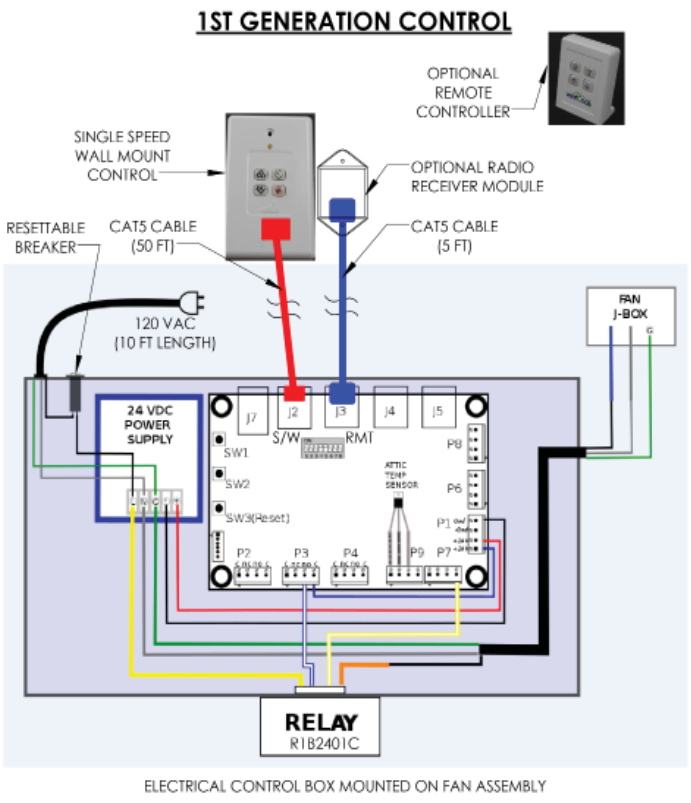


FIGURE 16A: VentCool 1.8
1st Generation Control Wiring Schematic

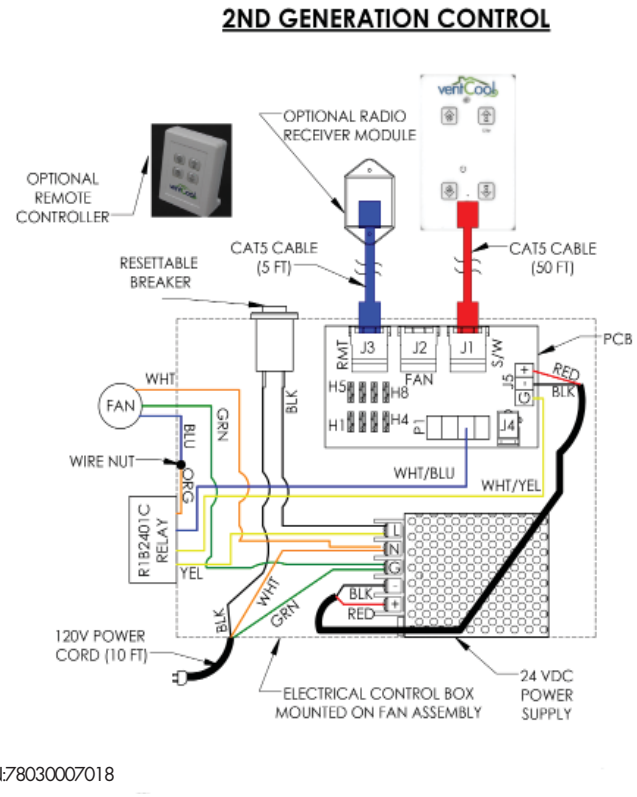


FIGURE 16B: VentCool 1.8
2nd Generation Control Wiring Schematic

To turn the fan on, press the Power On/Start Fan button. The fan will start and the damper flaps will open. Because the VentCool is a single speed fan, pressing this button repeatedly will have no effect on the fan's speed.

To set the fan's timer, press the INCREASE TIMER button. The timer will be set to 1 hour, after which the fan will automatically turn off. To increase the timer's setting, press this button again. Each time you press this button, the timer's setting will increase by 1 hour, up to 12 hours total. The timer resets each time the fan is turned off.

To turn the fan off, press the POWER OFF/FAN OFF button. The fan will turn off and the damper flaps will fall closed. When starting this fan for the first time, make sure to observe it turning on, running, and turning off from both the attic (to see the fan itself) and the living space (to see the backdraft damper).

- If the fan does not turn on, check the power to the unit, the control connections, and the circuit breaker feeding the fan mounted electrical control box.
- If the damper flaps do not open or close, visually inspect the damper for any debris obstructing their movement.
- If the steps above do not work, contact Field Controls Tech Support at 800.742.8368 or by email at fieldtec@fieldcontrols.com for further assistance.

WIRELESS REMOTE (OPTIONAL)

A wireless remote is an available accessory for this fan. It is not included as part of the VentCool line's standard control package.

To install a wireless remote with this fan, first mount the wireless remote receiver on an attic joist near the control box using wood screws and the pre-drilled mounting holes. Connect one end of the blue CAT5 cable provided with the remote control kit to the receiver's RJ45 port. Then, run the cable to the fan's control box and connect its free end to the blue RMT port.

Field Controls remote control transmitters and receivers are pre-merged at our factory. They may, however, become unmerged prior to installation. A remote control transmitter that has become unmerged from its reciever will not be able to control the fan. In this case, the transmitter and receiver will need to be remerged.

To merge a remote control transmitter and receiver, follow these steps:

1. Remove the receiver's top cover.
2. On the receiver's circuit board, locate the black button labeled LEARN. Press and release this button to begin the merge sequence; the RJ45 port's yellow transmission LED will illuminate.
3. **Immediately** press and release any button on the wireless transmitter while the transmission LED is illuminated. If the merge is successful, the transmission LED will turn off.
4. Repeat steps 2 and 3 if there are any additional remote control transmitters to merge with the receiver.
5. Replace the receiver's top cover.

IMPORTANT OPERATING TIPS

The following important tips for operating this fan have also been provided.

- **NEVER operate this fan without also opening a window or door.** Doing so can excessively depressurize the home.
- Only operate this fan when the outdoor air temperature is cooler than the indoor temperature.
- **Make sure the home's air conditioner and furnace are OFF before turning on this fan.** Running either of these together with this whole house fan wastes money because the fan will force expensively conditioned or heated air out of the home.
- We recommend running this fan through the night. The goal of using a whole house fan is to cool the entire home, not just the air inside it. Once heated, the home's structure and contents continue to radiate heat until reaching the temperature of the surrounding air. Running this fan through the night speeds up this cooling process and can then further "pre-cool" the home, reducing or eliminating the need to use air conditioning the next day.
- If the home has a basement, extra cooling can be achieved by drawing in air through the basement windows.
- This fan's cooling effect can be increased or concentrated in particular areas by adjusting the location of open windows. Visualize the path air will travel from the windows to your fan's opening. Generally, the longer the path, the more cooling.

MAINTENANCE & TROUBLESHOOTING

Make sure the appropriate circuit breakers at the home's electrical panel are turned OFF before servicing this fan.

There is no routine maintenance required for this fan other than making sure the fan assembly and backdraft damper are kept clean of any possible build up of debris.

Blocking this fan's exhaust can cause it to fail prematurely. Keep the area in front of the fan as unobstructed as possible: no object should be closer than 24" to the face of the fan.

Resettable circuit breaker is located on the fan mounted electrical box to protect circuit board from power surges. In the case of a power surge, this breaker can be reset by simply pushing the button back in.

This fan has been factory tested. If problems are encountered, please take a few moments to run through the following troubleshooting procedures before calling for assistance:

- If the fan does not turn on, check power to the unit and the wiring at both ends of the switch and the fan-mounted junction box.
- If the damper flaps do not open or close, visually inspect the damper for any debris obstructing their movement.

If the suggestions above do not work, contact Field Controls technical support at 800.742.8368 or by email at fieldtec@fieldcontrols.com for further assistance.

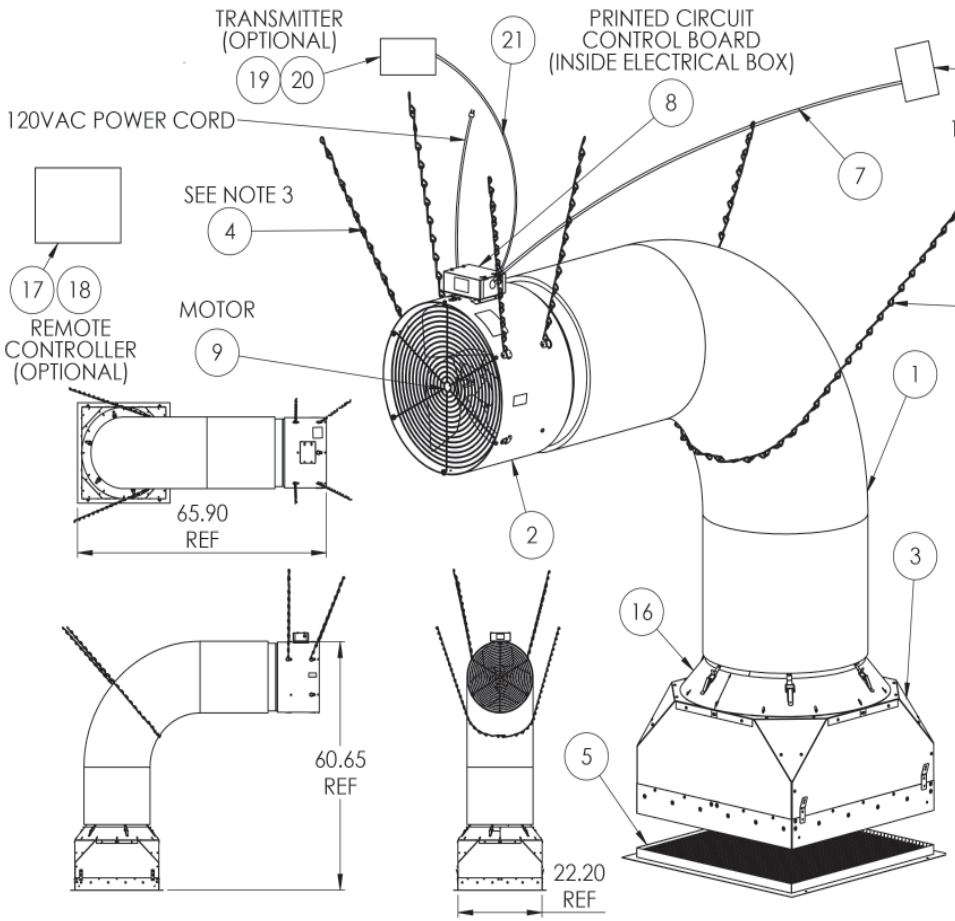
SPECIFICATIONS*

MODEL 1.8

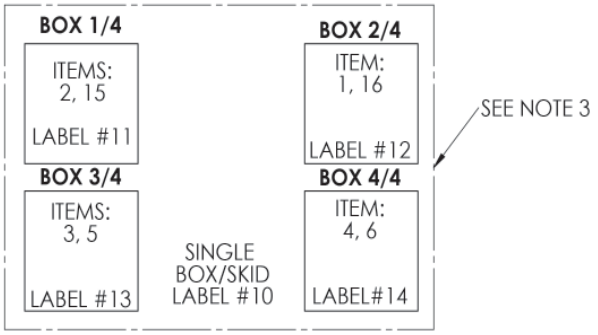
Speed Settings:	1
Tested Airflow:	1772 cubic feet per minute
Tested Electricity Consumption:	208 watts
Tested Efficiency:	8.52 cubic feet per minute per watt
Tested Noise:	52.0 dBA (tested at 45° and 1 meter from source)
Rough Opening Dimensions:	22.5" x 22.5"
Grille Outer Dimensions:	24.8" x 24.8"
Grille Build:	Cube Core, Aluminum, White Powder Coat
Backdraft Damper Dimensions:	22.5" x 22.5" x 15.5" (L x W x H)
Duct Length:	7 ft.
Duct Diameter:	14"
Electrical:	120VAC, 60 Hz
Insulation:	-none-
Installation:	Installs easily on 24" or 16" O.C. framing
Attic Venting:	3.54 sq ft
Open Window:	3.54 sq ft

*Due to our continual product improvement efforts, performance ratings and specifications are subject to change without notice.

Spare parts and serviceable components are listed in Figure 18, on the next page.



SHIPPING METHOD



SPARE PART	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
*	1	60510003218	16" X 7' INSULATED FLEX DUCTWORK, VC-1.8	1
	2	N/A	16" FAN ASSEMBLY, VC-1.8	1
	3	N/A	GRAVITY DAMPER BASE ASSY, VC-1.8	1
	4	N/A	HARDWARE KIT	A/R
*	5	60510003418	CUBE CORE GRILLE, 22.5" X 22.5", WHITE, VC-1.8	1
*	6	60510003115	VC-SSC1, SINGLE SPEED CTL (2ND GENERATION)	1
*	7	60510003850	50' ORANGE ETHERNET CABLE, VC	1
*	8	60510003518	CIRCUIT BOARD REPLACEMENT, VC-1.8 (2ND GEN)	1
*	9	60510003618	MOTOR REPLACEMENT, VC-1.8	1
	10	75010004018	LABEL, CARTON, VENTCOOL-1.8	1
	11	75010004118	LABEL, CARTON, VENTCOOL-1.8 1/4	1
	12	75010004218	LABEL, CARTON, VENTCOOL-1.8 2/4	1
	13	75010004318	LABEL, CARTON, VENTCOOL-1.8 3/4	1
	14	75010004418	LABEL, CARTON, VENTCOOL-1.8 4/4	1
	15	78010007000	VENTCOOL 1.8 MANUAL	1
	16	N/A	DAMPER CONE	1
*	17	60510003135	VC-RC, REMOTE CONTROL (1ST GEN)	1
*	18	60510003145	VC-RC-SC, REMOTE CONTROL (2ND GEN)	1
*	19	60510003136	VC-RCT, REMOTE TRANSMITTER (1ST GEN)	1
*	20	60510003146	VC-RCT-SC, REMOTE TRANSMITTER (2ND GEN)	1
*	21	60510003805	5' BLUE ETHERNET CABLE, VC	1

NOTES

1. ITEMS 7,8, &9 ARE FOR REPLACEMENT ONLY.
   ITEMS 8 AND 9 (PRINTED CIRCUIT BOARD REPLACEMENT AND MOTOR REPLACEMENT) ARE INITIALLY INCLUDED AS PART OF ITEM 2.
   ITEM 7 (ORANGE ETHERNET CABLE) IS INITIALLY INCLUDED AS PART OF ITEM 6.
2. ALL 4 BOXES TO BE SHIPPED TOGETHER IN ONE OVERCARTON, USING LABEL #10.
3. HARDWARE KIT USED TO ASSEMBLE AND INSTALL UNIT.
4. CHAIN (25 FT LENGTH) AND TAPE SHIPPED IN BOX WITH FAN ASSEMBLY.
5. REMOTE CONTROL OPTION REQUIRES: (CHECK YOUR CONTROL SYSTEM TO VERIFY WHICH REMOTE GENERATION TO PURCHASE):
   1ST GENERATION CONTROL - ITEM 17 REMOTE CONTROL (P/N: 60510003135), ITEM 19 REMOTE TRANSMITTER (P/N: 60510003136) & ITEM 21 BLUE CABLE (P/N: 60510003805).
   2ND GENERATION CONTROL - ITEM 18 REMOTE CONTROL (P/N: 60510003145), ITEM 20 REMOTE TRANSMITTER (P/N: 60510003146) & ITEM 21 BLUE CABLE (P/N: 60510003805).

VENTCOOL 1.8 60510002018

Figure 18, Spare Parts

This manual may be downloaded and printed from the Field Controls website (www.fieldcontrols.com)

WARRANTY

For warranty information about this or any Field Controls product, visit:
www.fieldcontrols.com/ventCool

Field Controls Technical Support
1.800.742.8368
fieldtec@fieldcontrols.com

Phone: 252.522.3031 • Fax: 252.522.0214
www.fieldcontrols.com

© Field Controls, LLC

P/N 78010007000 05/17 Rev B