

# Quiet Giant QC-4500

## *Installation Instructions*

You must first determine in what area you would like to install your QC-4500. The ideal location is in a central hallway in an area where you have the most headroom in the attic.

After you select a likely location from down below, it's time to go into the attic to mark the exact location from above, using a cutout template. You should make your template from heavy paper or cardboard that you cut into the shape of a rectangle 14 inches by 22 inches.

You will need to take the template, an awl or small screwdriver, and a light to see your way. Remember, only the framing members will support your weight, the ceiling material will not!

Before going up, get your bearings. Get a feel for where your chosen location is in relation to the attic access, lights, vents, smoke detectors, etc.. This will help you find the correct location faster. It is also helpful to have someone help you from below. They can help by tapping, or talking to you as you get to the location.

When you find a location, move the insulation away to get a clear view. Make sure the template fits between the framing, and there are no other obstructions in your chosen location. If there is a reason you cannot use the exact spot, find a location in the area that does work. Place the template on the spot and mark it by making a hole through the center of the template and through the drywall or plaster with your awl, or screwdriver so that you can see the hole from below.

Once the location is marked, move the insulation away and return below to the house. It's now time to cut the hole through the ceiling from below.

Place the cutout template at the location making sure you have 2 inches of clearance all the way around it. The grill that will be installed later is larger than the template. While holding the template in place on the ceiling, mark around it with a pencil. Using a keyhole saw, or similar device, cut out the hole. The finished hole should be 14" X 22" with a tolerance of plus 1/4", minus 0"

Once the ceiling hole is cut, it's time to get the system in the attic. The two motor head assemblies and ducts and the ceiling box should be put up in the attic through either the ceiling cutout hole or the attic access hole and placed near the ceiling cutout hole.

First, place the ceiling box from above into the ceiling hole, and then hang the motor heads from the rafters. Your goal is to hang the motor head as far from the ceiling box as possible, while making sure the duct is as straight as possible with the least number of bends.

Using the metal strapping attached to the motor head assembly, and the gray deck screws provided, hang the motor head from the rafters. Make sure the motor head is fairly level side to side. Again, make sure the ducting will reach the ceiling box.

Attach the other end of each duct to the ceiling box and fasten it in place using three black 7/16" screws equally spaced around each duct through the duct collar and the ceiling box outlet.

### **Very important!**

Remove the shipping tape and shipping blocks from the back draft dampers. Make sure the dampers will open and close easily and without obstruction. Also, make sure the fan blade spins freely. This is very important to system operation.

Once the motor heads are hung, it's time to go below and install the ceiling box and ceiling grill. Look through the hole and make sure there are no kinks or twists in the ducting. Pull the ceiling box down through the hole in the ceiling tight against the top of the ceiling, and while holding it in place, install a 1-3/8" drywall screw through the drywall into the flange of the ceiling box on each side to temporarily hold the box in place.

Remove ceiling grill and screws from it's packaging. Center the grill over the ceiling box. Install the grill with the white screws provided by screwing through the flange of the ceiling box. It may be easier to install the screws by first drilling a 1/8" pilot hole through the ceiling box flange using the grill as a template. Some ceiling surfaces are uneven and may cause a small gap to be present. This can easily be caulked later if excessive.

Return to the attic and, using the nylon straps and the pan head screws provided, support each duct by encircling the duct with the nylon strap and then screw the ends of the strap to the framing. The goal is to take any sags and dips out of the duct by supporting it near the center. Make sure the motor head is still level and the dampers still close naturally. This will stabilize the entire assembly. Replace any insulation that was removed.

The installation is now complete except for the electrical work necessary to make them operate. It is recommended that a qualified electrician complete the electrical work.

#### Tools that may be needed

Drywall / keyhole saw

Ladder

Drop cloths

Power drill / driver

1/8" drill bit

Tape measure

Awl or small screwdriver

Razor knife

Flashlight or shop light

Pencil

The electrical wiring for the Quiet Giant requires a 110 volt three prong outlet within 6 feet of each motor head in the attic. Each outlet should be wired to and controlled by a two-gang box installed in the hallway wall. The timer and dual switch will mount in the two-gang box with one of the switches controlling one fan motor, and the other switch controlling the other fan motor. The total connected load will not exceed 5 amps

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