Attic Breeze®
America's Leader in Solar Powered Ventilation

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Retrofit-Style Solar Fan Installation Guide

Thank you for purchasing your new solar powered fan from *Attic Breeze*. Our retrofit-style solar fans have been carefully designed to provide easy installation with minimal tools or experience required. Before beginning, please completely review this guide and the tools required for installation.

Application

This guide applies to attic gable wall installations only behind an existing passive vent. Please consult your *Attic Breeze* dealer for more information regarding alternate installation methods.

Parts & Equipment

The following parts and equipment are included for your installation:

(1) *Attic Breeze* solar powered fan with retrofit-style gable mount flashing

(1) remote mount monocrystalline solar panel (additional solar panel with 40W models only)

(1) solar panel mounting bracket kit

(1) 15 foot power cable

(1) power cable splitter (40W models only)

What's Needed

- cordless drill with nut driver attachments
- self-tapping screws and woodscrews
- roofing-grade weatherproof sealant
- lumber (2x4)
- tape measure
- reciprocating saw

Getting Started

To ensure optimum performance from your *Attic Breeze* solar attic fan, attic air intake ventilation must be evaluated prior to installation. The minimum recommended net free area of intake ventilation for your product model is shown in Figure 1. Your installation should either meet or exceed these recommendations for optimum fan performance. For assistance in determining proper intake ventilation requirements, please consult your local *Attic Breeze* dealer or visit our website for more information.

NOTE: Lack of proper attic air intake ventilation will result in poor fan performance. Additionally, the gable vent where your fan will be installed must be have the same venting area or larger than the fan itself for optimum performance.

Attic Breeze Fan Model	Minimum Required Intake Ventilation
20 watt	4.5 sqft net free area
25 watt	5.2 sqft net free area
40 watt	6.0 sqft net free area
60 watt	6.8 sqft net free area

Figure 1 - Air Intake Ventilation Requirements

Choose a location on your roof to install the solar panel that will offer optimum sun exposure throughout the day. For best results, pick an area that is oriented in a southern direction and is not shaded or otherwise blocked from the sun for extended periods. If an installation location on the southern side of your roof is not available, please consult your *Attic Breeze* dealer for additional solar panel mounting options.

Your solar attic fan should not be installed any closer than within 10 feet to an existing passive vent, ridge vent, or additional fan unit. If installed in combination with a ridge vent, it may be necessary to block off a portion of the vent close to the fan to achieve optimum attic ventilation performance.

Finally, consider sealing your attic space to prevent air exchange with the inside of your home. Eliminating air leaks increases both your attic insulation efficiency and the performance of your *Attic Breeze* solar fan.

Building the Mounting Box

Begin by building a mounting box around your existing gable or passive vent inside the attic. Measure the length between the studs adjoining the vent and cut the 2x4 boards to complete the box as shown in Figure 2. Secure the boards in place using woodscrews.

NOTE: Mounting box should be no larger than 21"x21". If gable or passive vent extends beyond this area, block off excess venting area to prevent backflow of exhaust air.

When completed, the mounting box should provide an air channel for the gable fan to properly exhaust through.
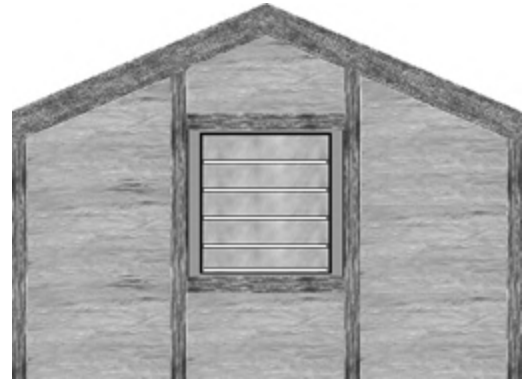

Figure 2 - Building the Mounting Box

Installing the Fan Unit

Next, install the *Attic Breeze* retrofit-style solar fan flush to the mounting box (see Figure 3). The fan housing (cylinder) should be positioned facing toward the attic space. Secure the fan unit to the mounting box with self tapping screws.

Routing the Power Cable

Locate the power cable include with your *Attic Breeze* solar attic fan. Make sure the power cable is long enough to reach the location where the remote solar panel will be installed.

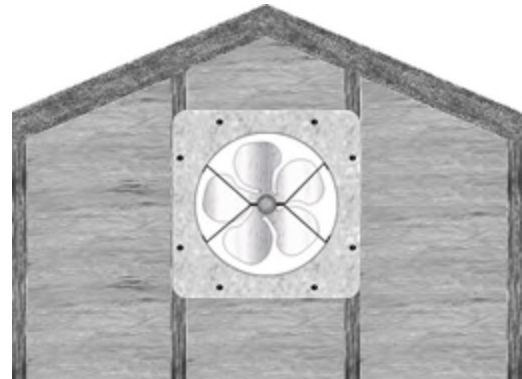**NOTE:** If additional power cable length is needed for your installation, *Attic Breeze* offers a 40 foot extended power cable as an available option.

Figure 3 - Mounting the Fan Unit

Next, plug the power cable into the power cable connector located on the fan unit. If installing a Breeze Mate® control system, first plug the Breeze Mate® cable into the fan's control cable connector, and then plug the power cable into the Breeze Mate® controller per the instructions included with that product.

NOTE: If installing a 40W solar attic fan, plug the power cable splitter into the power cable connector located on the fan unit and then connect the two power cables to the splitter. For Breeze Mate® installations, the power cable splitter must be plugged into the Breeze Mate® controller.

Route the power cable through the attic, starting from the fan unit to the location where your remote solar panel will be installed. Secure the power cable in place. The power cable may be routed out of the attic by bringing the cable through an existing passive vent, penetrating a gable wall and running the cable along the roof eve, or simply routing the power cable directly through the roof. When making any wall or roof penetration, caulk around the penetration using a roof-grade weatherproof sealant.

Solar Panel Mounting

Install the solar panel mounting brackets per the instructions included with your specific *Attic Breeze* bracket kit. Plug in the power cord to the connector on back of the remote solar panel. Securely mount the solar panel as required to your roof or structure.

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