

Wall Mount Solar Fan Installation Guide

Thank you for purchasing your new solar powered fan from *Attic Breeze*. Our wall mount 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. 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:

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| (1) <i>Attic Breeze</i> solar powered fan with wall mount flashing and static louvers | (1) solar panel mounting bracket kit |
| (1) remote mount monocrystalline solar panel (additional solar panel with 40W models only) | (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.

<i>Attic Breeze</i> 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 for the fan unit. The mounting box may be constructed from 2x4 boards for wood frame structures or a prefabricated sheet metal mounting box may be used for commercial applications. The mounting box must accept an 18"x18" square housing and allow the wall mount fan to extend roughly 11" to the inside of the structure from the mounting surface.

For wood frame structures, use a reciprocating saw to cut the wall vent hole roughly 1" larger on all sides than the mounting box. This will allow room for securing the fan unit to the mounting box surface. For commercial applications, the size of the wall vent hole will depend on the dimensions of the prefabricated mounting box.

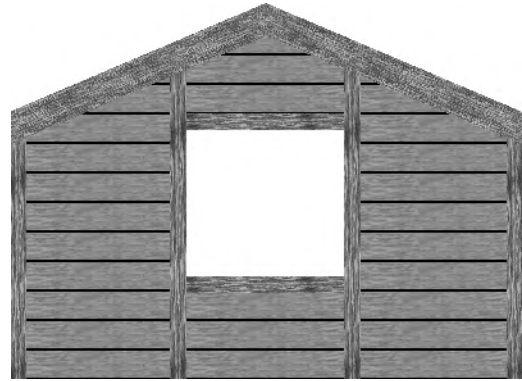


Figure 2 - Building the Mounting Box

NOTE: DO NOT CUT THROUGH ANY STRUCTURAL SUPPORT MEMBERS WHEN INSTALLING THE MOUNTING BOX. If the location where you wish to install the wall mount fan uses 16" on center support studs, a framing cripple will be required. Consult a local contractor for assistance with proper design and construction of your mounting box if needed.

Installing the Fan Unit

Next, install the *Attic Breeze* wall mount fan flush to the mounting box (see Figure 3). Secure the fan unit to the mounting box with self tapping screws. Flash, weatherproof, and trim around the fan installation as appropriate for the specific exterior of your structure.

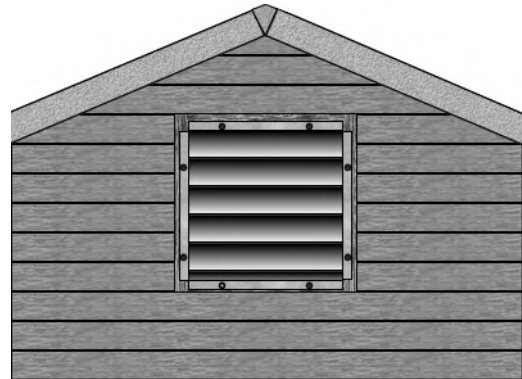


Figure 3 - Mounting the Fan Unit

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.

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 eave, 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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