Attic Breeze
Solar Powered Ventilation

Customer Service Hours	
Mon-Fri 8:30AM - 5:30PM CST	
voice	254-865-9999
email	support@atticbreeze.net
web	www.atticbreeze.net

Wall Mount Solar Gable Fan Installation Guide

Attic Breeze® wall mount GM model series fans are a great alternative for customers who want the benefits of solar powered ventilation without the need for making a roof penetration, offering a complete ventilation solution for your residential or commercial application.

Application

The Wall Mount Solar Gable Fan Installation Guide applies to the following *Attic Breeze*® models:

<p align="center">AB-206   AB-256   AB-256C   AB-406</p>

Parts & Equipment

The following parts and equipment are included for your installation:

(1) *Attic Breeze*® wall mount solar gable fan

(1) 20W or 25W monocrystalline solar panel per model requirements

(1) 15' power cable (18 AWG) or optional extended 40' power cable (14 AWG)

(1) Standard Mounting Bracket or optional Universal Mounting Bracket

For The Grande™ Series 40W Products Only...

(1) Additional 20W monocrystalline solar panel for remote solar array with power cable splitter

(1) 15' power cable (18 AWG) set or optional extended 40' power cable (14 AWG) set

(1) Standard Mounting Bracket set or optional Universal Mounting Bracket set

What's Needed

- Cordless Drill
- Self-Tapping Screws (flat head 10-16 x 1")
- Caulking Gun
- Roofing Grade Weatherproof Sealant

- Lumber (2x4) or Prefabricated Mounting Box
- Woodscrews or Appropriate Fasteners
- Reciprocating Saw
- Tape Measure

Getting Started

Please read this instruction guide completely before beginning your installation. To ensure optimum performance from your *Attic Breeze*® solar gable fan, attic intake ventilation must be evaluated prior to installation. The minimum recommended net free area air intake for your product model is shown in Figure 1. For assistance in determining if your application meets intake ventilation requirements, please visit our website or contact *Attic Breeze*® customer support for more information.

NOTE: Lack of proper attic air intake ventilation will result in poor airflow performance from your solar gable fan. Make sure that your application either meets or exceeds recommended intake ventilation to ensure optimum fan 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

Figure 1 - Intake Ventilation Requirements

Building the Mounting Box

Begin by building a mounting box at the location where you wish to install the wall mounted fan. 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" x 18" 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.
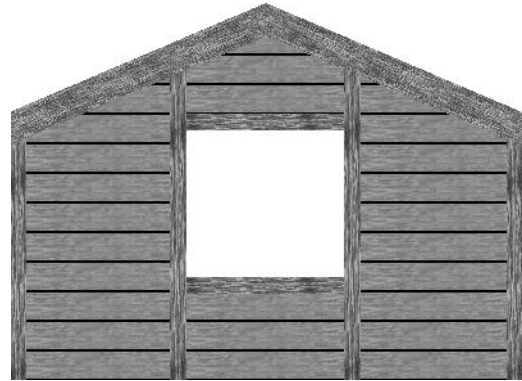
Figure 2 - Building the Mounting Box

NOTE: DO NOT CUT THROUGH ANY STRUCTRUAL 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, consult a local contractor in your area for assistance with proper design and construction of mounting box.

Installing the Fan Unit

Next, install the *Attic Breeze*® wall mount solar gable 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.
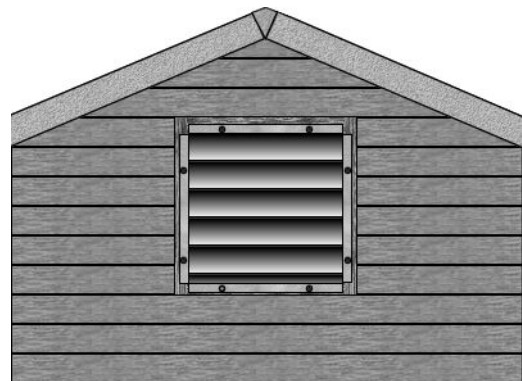
Routing the Power Cable

Locate the power cable include with your *Attic Breeze*® product. Make sure the power cable is long enough to reach the location where the remote solar panel will be installed. Plug the cable into the power cable connector located on the fan unit.

Figure 3 - Mounting the Fan Unit

NOTE: If installing *The Grande*™ Series 40W product, 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.

Route the power cable to the location where your remote solar panel will be installed. There are various methods for bringing the power cable out of the attic. These include either bringing the cable through an existing passive vent, penetrating a gable wall and running the power cable along the roof eve, or simply routing the power cable directly through the roof.

NOTE: When making a wall or roof penetration, be sure to weatherproof around the power cable penetration using a roofing grade sealant.

Solar Panel Mounting

Install the solar panel mounting brackets per the instructions included with your specific bracket kit and plug in the power cord to the connector on back of the solar panel.

NOTE: When installing the *Attic Breeze*® low-profile Standard Mounting Bracket, make sure to connect the solar panel and power cable BEFORE mounting the solar panel to the roof.

www.atticbreeze.net