

INSTALLATION GUIDE

UltraBreeze™ Self-Flashing Solar Attic Fans

SFA (attached panel) and SFD (detached panel)



MODEL	ATTACHED PANEL	DETACHED PANEL
PRO 25W	AB-2523A	AB-2523D
HP 35W	AB-3523A	AB-3523D
MAX 45W	AB-4523A	AB-4523D
ELITE 65W	—	AB-6523D

Part numbers end in a color code, for example AB-3523A-BLK.

In the box

-  Self-tapping screws with rubber washers
-  Roofing sealant (weatherproof)
-  20 in. hole template
-  Control switch (red bag)
-  SFD only: solar panel, bracket kit, power cable

You will need

-  Cordless drill with nut driver
-  Reciprocating saw
-  Roofing knife
-  Tape measure and marker
-  7/16 in. wrench
-  Ladder and fall protection

Work safe

-  No roof work when it is wet or windy.
-  Wear safety glasses and gloves with power tools.
-  Use fall protection. Tie off yourself and your tools on steep roofs.
-  Wear slip-resistant shoes.



READ EVERY STEP BEFORE YOU START. Have all tools and materials on the roof before you cut.



FLORIDA APPROVALS: SFA/CMA: FL47212 · Miami-Dade NOA 25-0625.11 · HVHZ approved · ±125 psf. SFD/CMD: FL13339 · outside HVHZ only · ±115 psf. Install as the approval documents show (atticbreeze.com/resources).

01 Before You Start

For composition shingle and other low-profile roofs. For tile or metal roofs, use the UltraBreeze™ curb-mount fan.



WARNING: Keep the solar panel covered until the install is done. In sunlight the fan can start at any time and cause injury or damage.



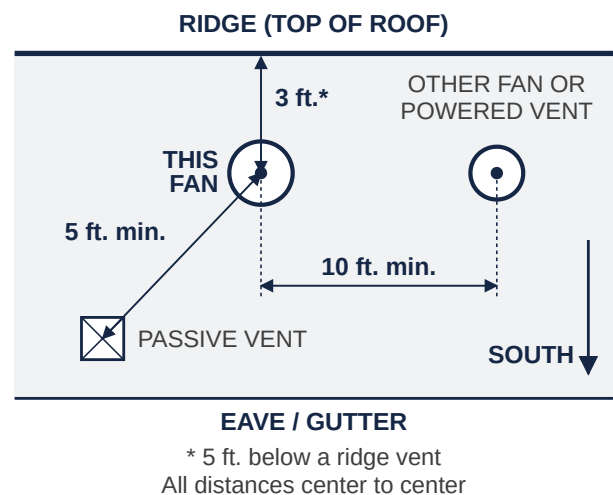
CODE COMES FIRST. Local building codes take priority over this guide. Follow local code and the roofing manufacturer's rules. A bad install can void the warranty.

02 Pick the Spot

3 ft. from the top of the ridge to the center of the fan, or locate the fan as close to the ridge as you can while still flashing it correctly.

5 ft. below a ridge vent, and at least 5 ft. from any other passive vent — box vents, turbines, gable vents.

10 ft. side to side from other fans and powered vents. They should sit at the same height on the roof as this fan.



All distances are measured center to center.

Best spot: **south** side, full sun, near the middle of the attic.

03 Check the Intake Air

The fan pulls hot air out. The same air must come in low, through soffit or other **intake vents**. The attic needs at least this much intake (net free area):

MODEL	ATTIC UP TO	INTAKE NEEDED (MIN.)
PRO 25W	2,000 sq. ft.	6.0 sq. ft. (864 sq. in.)
HP 35W	2,500 sq. ft.	7.0 sq. ft. (1,008 sq. in.)
MAX 45W	3,000 sq. ft.	7.5 sq. ft. (1,080 sq. in.)
ELITE 65W	4,000 sq. ft.	8.5 sq. ft. (1,224 sq. in.)

Too little intake reduces airflow. For sizing help, see atticbreeze.com/ventilation-calculator.



Passive vent area, fan off: 175 sq. in. (1.22 sq. ft.) per fan (calculated). This is the open vent area the fan gives even when it is not running.

04 Install the Fan

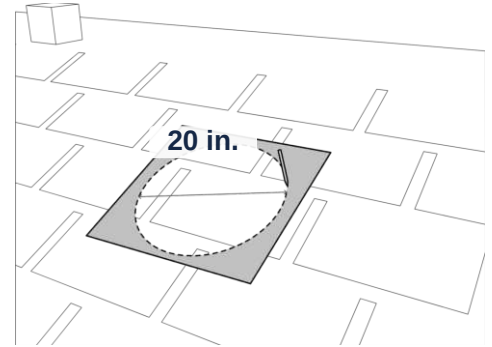


STOP: Cut the roof deck only. Never cut a rafter or other framing. If a rafter runs under the hole, leave it in place.

1

Mark and cut the hole

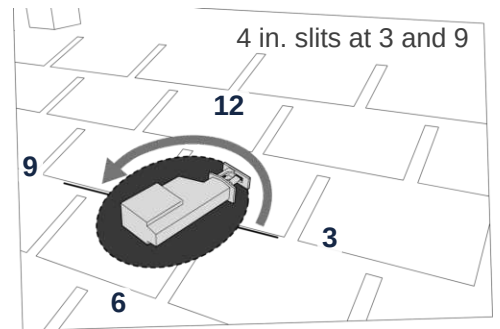
1. Find the rafters near your spot. Measure the spacing.
2. **24 in. apart:** mark the center halfway between two rafters.
3. **16 in. apart:** mark the center on top of a rafter.
4. Trace a **20 in. circle** with the template. Cut it out with the reciprocating saw.



2

Free the shingles

1. Slide the saw blade flat between the shingles and the deck.
2. Start at **3 o'clock**. Cut the nails and staples around the **top** of the hole to **9 o'clock**.
3. With the roofing knife, cut a **4 in. slit** straight out from the hole at 3 and 9 o'clock.



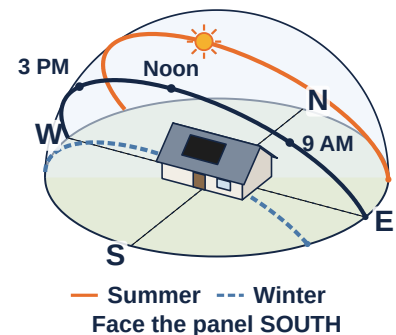
The fan flashing slides up under these loose shingles.

3

Detached panel (SFD) only: mount the panel first

SFA (attached panel)? Skip to Step 4.

1. Run the power cable through the attic from the hole to the panel spot and fasten it. If you need more length, a 25 ft. extension cable is available separately.
2. Bring it out through an existing vent, the gable wall, or the roof. **Seal every hole.**
3. Mount the panel on its bracket (see the bracket guide) and plug in the cable.



4

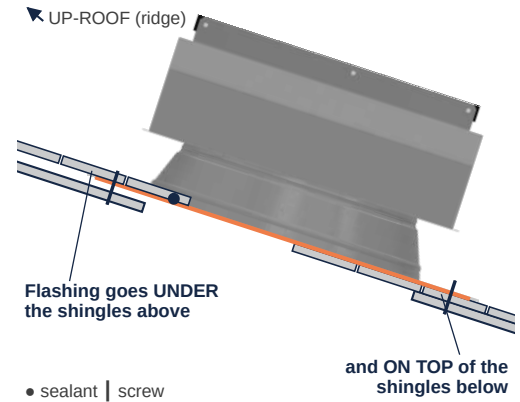
Connect the cables

1. Remove all packing and tape. Let the control cable hang down through the hole.
2. Plug the **control switch (red bag)** into the 4-prong plug. (BreezeMate™ control? Follow its instructions.)
3. SFD only: plug the panel cable into the 2-prong plug.

5

Set the fan

1. Tip the fan up and put a bead of sealant on the **underside** of the flashing.
2. Turn the fan so the sticker “**INSTALL THIS SIDE TOWARDS GROUND**” points down the roof. On an east- or west-facing roof, you may turn the fan up to 90° so the raised panel faces south.
3. Slide the flashing up under the loose shingles until the fan reaches the top of the hole.



6

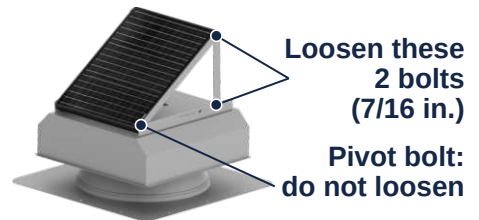
Screw it down and seal it

1. Drive a self-tapping screw through **every** pre-drilled hole in the flashing.
2. Seal where the shingles meet the flashing, over both 4 in. slits, and over every screw head you can see.

05 Adjust the Solar Panel (optional)

The panel ships flat. Leave it flat, or raise it toward the south for more sun:

1. On each side of the panel, loosen the **2 adjusting bolts** (7/16 in. wrench). Do not loosen the **pivot bolt** — it never needs adjusting.
2. Raise the panel to the angle you want, using the slots.
3. Retighten the 2 adjusting bolts on each side. **Do not over-tighten** — it can bend the bracket.



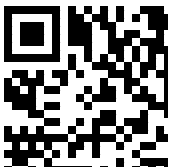
SFD (detached panel): the panel sits on its own bracket. See the bracket guide.



HIGH WIND: Windstorm approvals (Florida HVHZ, Texas TDI) cover the panel **lowered flat and secured**, so leave it flat in those areas. Elsewhere, as a precaution before a hurricane or other extreme wind event, lower the panel and tighten the bolts.

06 Finish Up

Take the cardboard cover off the solar panel. The fan runs on its own: **on** at about **75°F** in the attic, **off** below about **55°F**. No adjustment is needed.



Register the warranty within 90 days

Lifetime Limited Parts Warranty. Register at atticbreeze.com/warranty-registration or scan the code.