Attic Breeze®
America's Leader in Solar Powered Ventilation

ENGLISH

INSTALLATION GUIDE

UltraBreeze™ Curb-Mount Solar Attic Fans

CMA (attached panel) and CMD (detached panel)



MODEL	ATTACHED PANEL	DETACHED PANEL
PRO 25W	AB-2543A	AB-2543D
HP 35W	AB-3543A	AB-3543D
MAX 45W	AB-4543A	AB-4543D
ELITE 65W	—	AB-6543D

Part numbers end in a color code, for example AB-3543A-BLK.

In the box

- Self-tapping screws with rubber washers
- Roofing sealant (weatherproof)
- Control switch (red bag)
- CMD only: solar panel, bracket kit, power cable

You will need

- Cordless drill with nut driver
- Reciprocating saw
- Tape measure and marker
- Roof curb and flashing
- 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 tile, metal, and other high-profile roofs that need a roof curb. For shingle roofs, use the self-flashing 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.

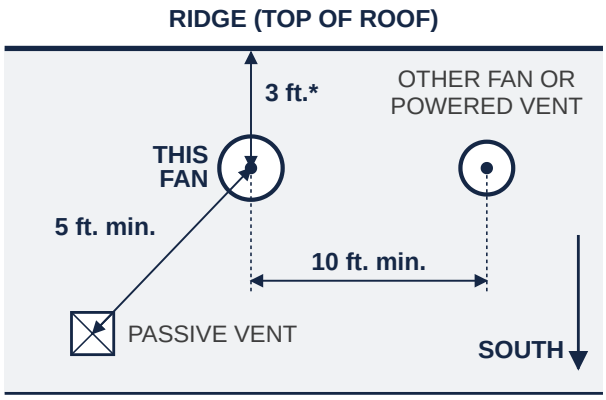
> **CODE COMES FIRST.** Local building codes take priority over this guide. Follow local code and the roofing manufacturer's rules. A bad install can void the warranty.

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.



* 5 ft. below a ridge vent
All distances center to center

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**.

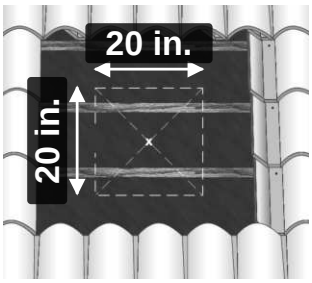
> **Passive vent area, fan off:** 175 sq. in. (1.22 sq. ft.) per fan (calculated). This is the open vent area the fan gives even when it is not running.

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

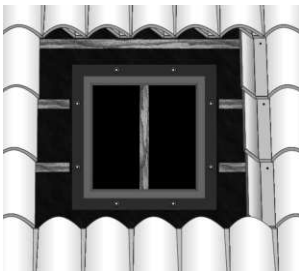
1. Remove the tiles or other roofing where the curb will go.
2. Find the rafters. **24 in. apart:** center between two rafters. **16 in. apart:** center on a rafter.
3. Mark a **20 x 20 in. square** around the center. Cut it out with the reciprocating saw.



2 Install the roof curb

Using the Attic Breeze AB-004 Roof Curb Kit? Install it with its own guide, then go to the next step.

Building your own curb? Make it **23-1/2 x 23-1/2 in.** outside and **6 in.** tall, strong enough to hold at least 33 lb. Then:



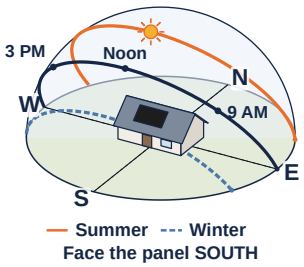
1. Remove battens as needed so the curb sits flat on the deck.
2. Set the curb over the hole, square with the tiles. Fasten it to the framing or deck.
3. Put the tiles back up to the curb and secure them. Flash the curb (follow the curb maker's flashing steps).

In the Florida HVHZ or the Texas TDI windstorm area, fasten the curb as the approval documents show. Local code may require other anchors.

3 Detached panel (CMD) only: mount the panel first

CMA (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.

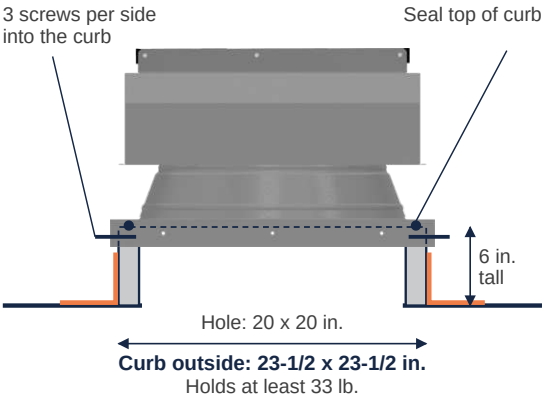


4 Connect the cables

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. CMD only: plug the panel cable into the 2-prong plug.

5 Set the fan on the curb

1. Run a bead of sealant around the **top of the curb**.
2. Set the fan over the curb with the sticker **"INSTALL THIS SIDE TOWARDS GROUND"** pointing down the roof. On an east- or west-facing roof, you may turn the fan up to 90° so the raised panel faces south.



6 Screw it down and seal it

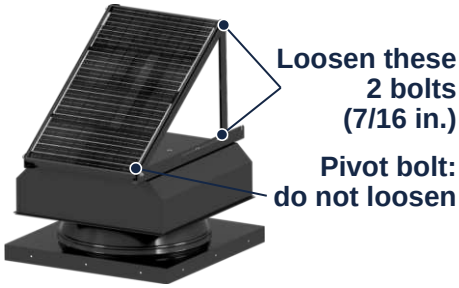
Drive **3 self-tapping screws on each side** through the fan base into the curb. Add sealant where needed to keep water out.

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.

CMD (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.