



IMPORTANT! Before Installing...

Please take the time to read through the ENTIRE instructions prior to starting any work.

Precautions

1. Ensure normal safety precautions are taken when using tools and walking on roofs.
2. Do not cut any structural members in the house.
3. Measure twice and cut once.

Tools Needed

- Caulking Gun
- Marking Pencil
- Measuring Tape
- Reciprocating Saw
- Safety Goggles
- Screwdriver
- Stud Finder
- String
- Utility Knife
- Ladder

Installation Pointers

When determining location of the unit, try to place the solar attic fan on the south side of the roof, also consider potential problems such as objects shading the unit during certain times of the day. The unit should also be centered on the roof and the center of the unit should be about 2 feet down from the roof ridge.

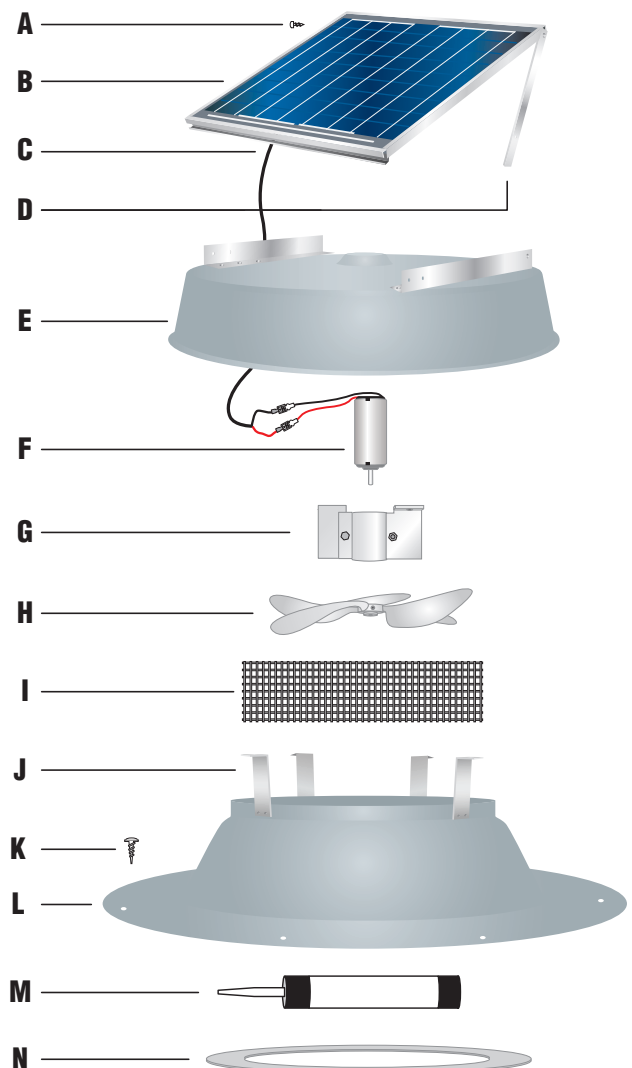
Parts List

Note: Exploded view for illustrative purposes. Unit comes pre-assembled.

- A.** (2) Self-Tapping Screws
- B.** Custom Solar Panel
- C.** Wire Lead
- D.** Adjustable Solar Panel Bracket
- E.** Aluminum Shroud
- F.** Custom 36V DC Motor
- G.** Motor Isolation Bracket
- H.** Air Driven Precision Pitch 5 Blade Fan
- I.** 3.25" x 48" Stainless Steel Wire Mesh
- J.** (4) .09" Aluminum Shroud Support Bracket
- K.** (6) #10 x 1.5" Stainless Steel Phillips Head Screws
- L.** Aluminum Flashing
- M.** Caulk

ADDITIONAL PART FOR HIGH VELOCITY HURRICANE ZONES ONLY:

- N.** Aluminum Storm Collar

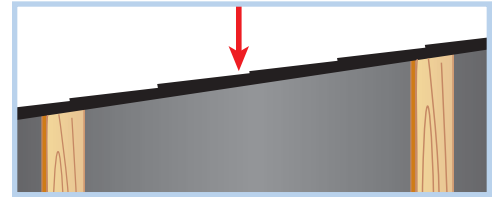


IMPORTANT:

Roof rafters are generally 16" or 24" on center. On 16" on center construction, the installer can either cut a 14" hole between the rafters or cut a 19" hole with the roof rafter running through the cut hole. On 24" on center construction, cut a 19" hole between the roof rafters. Follow the steps for the opening size needed for your specific application.

STEP 1

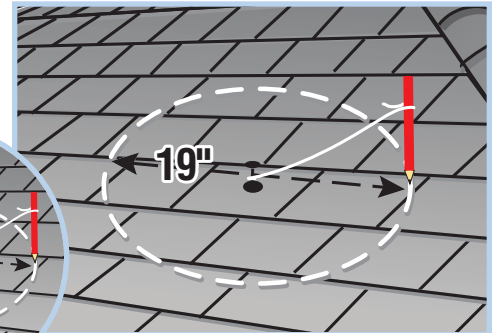
Choose location for solar attic fan, south exposure is best. If a southern exposure is not feasible for your installation, the fan can be installed on any other exposure and the solar panel adjusted to capture maximum sunlight.



STEP 2

DETERMINE SIZE OF HOLE NEEDED FOR YOUR INSTALLATION:

On 24" on center construction, center the fan between the rafters and cut a 19" hole. On 16" on center construction, the installer can either cut a 14" hole between the rafters or cut a 19" hole with the roof rafter running through the hole (see illustration below in step 4).

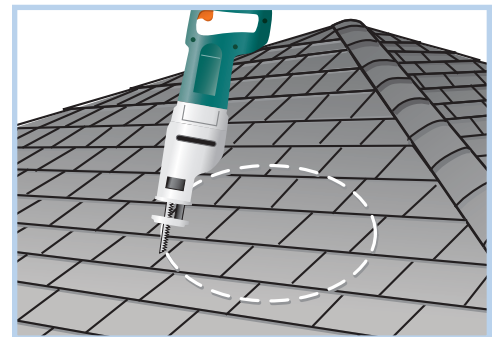
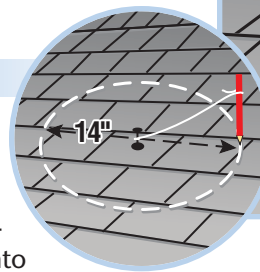


STEP 3

Hammer a nail at the center of the location chosen between rafters for the solar attic fan. The center of the unit should be about 2 feet down from the ridge.

19" HOLE: Attach a string to the nail. Measure 9.5" of string and attach a marking pen to the string, see diagram. Scribe a 19" circle onto the roof shingles.

14" HOLE: Attach a string to the nail. Measure 7" of string and attach a marking pen to the string, see diagram. Scribe a 14" circle onto the roof shingles.



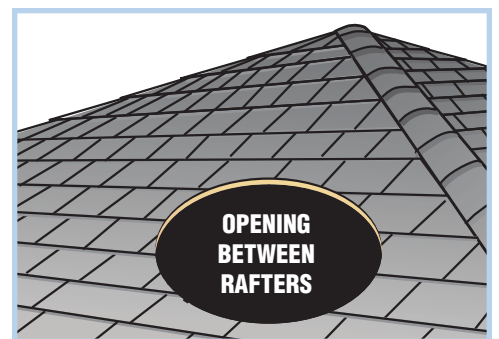
STEP 4

With a reciprocating saw, cut the diameter of the hole. **NEVER CUT THROUGH ANY ROOF RAFTERS. LEAVE ALL FRAMING MEMBERS IN PLACE.**

IMPORTANT: The solar attic fan must be installed between the roof rafters **OR** over a roof rafter. **DO NOT CUT THROUGH ANY FRAMING MEMBER.** Only remove roof sheathing.



RECOMMENDED:
HOLE CUT
BETWEEN RAFTERS



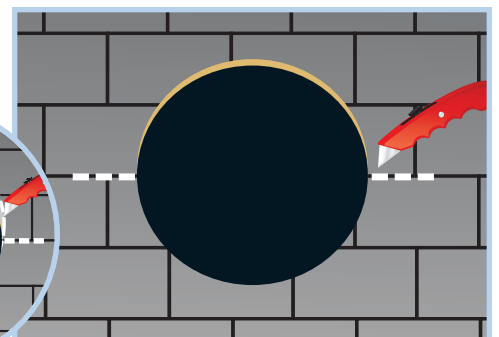
OPTION:
16" ON CENTER
WITH 19" HOLE

STEP 5

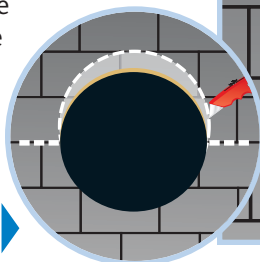
19" HOLE: With a razor knife, cut a four inch slit through the shingles and tar paper at the three and nine o'clock position of the flashing. This allows for the foot print of the flashing to be inserted under the shingles.

14" HOLE: Additional shingles may also need to be removed on the high side towards the ridge to allow the flashing to slide over the hole (see inset).

19" HOLE

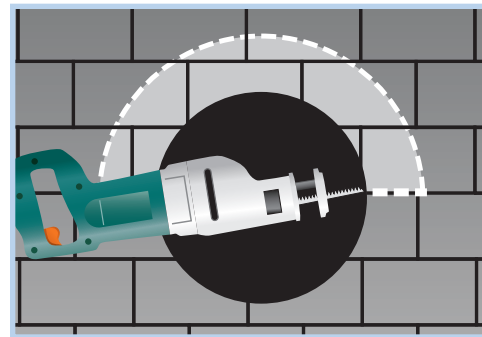


14" HOLE



STEP 6

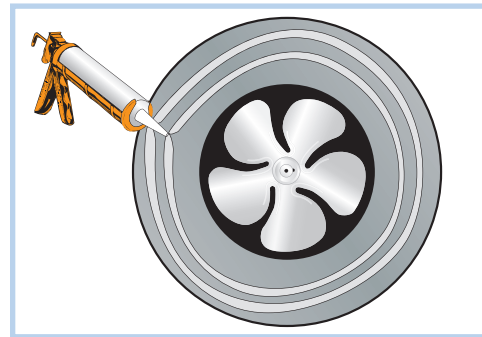
Insert the reciprocating saw blade sideways at the 3:00 o'clock position and commence cutting the roofing nails up and around to the 9:00 o'clock position. This process removes the nails that will prevent the flashing footprint from sliding up underneath the shingles.



STEP 7

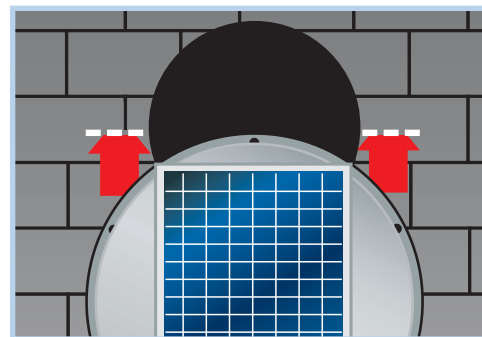
Caulk the **underside** of the flashing with the provided caulking material (M). Two concentric rings of caulking material is sufficient.

NOTE: Installation on tile roofs will require the use of a skirt.



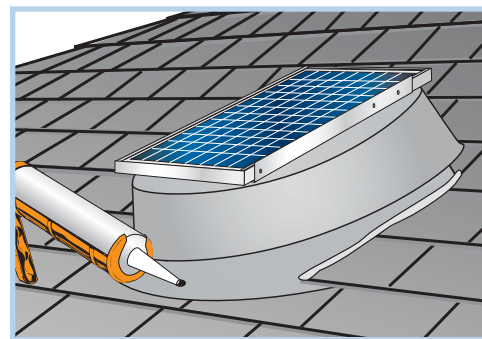
STEP 8

Taking care not to smear caulk on the exposed shingles, slide flashing under tar paper and shingles and force flashing up until the shingles come in contact with the raised portion of the flashing. The bottom side of the flashing will be on top of the shingles. Secure flashing with (6) Phillips head screws (K) at the 2:00, 4:00, 6:00, 8:00, 10:00 and 12:00 positions. The 10:00, 2:00 and 12:00 positions screws should go under the shingles. The 4:00, 6:00 and 8:00 position screws should go on top of the shingles.



STEP 9

At the 4:00, 6:00 and 8:00 positions, caulk over the screw head, since it will be exposed to the weather. Use remaining caulk to seal the areas where the 4" slits were made and around the area where the shingles meet with the raised area of the flashing.

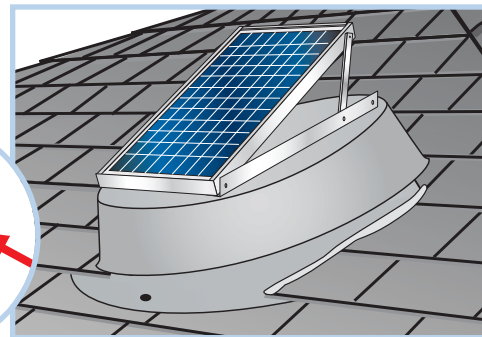
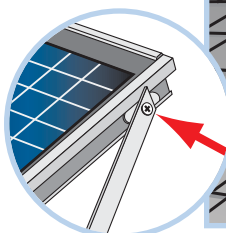


STEP 10

Adjust the solar panel to the position it will collect the most sunlight throughout the day. Using the two self-tapping screws (A) provided, screw the adjustable brackets to the side of the solar panel frame making sure the screws do not damage the panel.

IMPORTANT: Prior to an anticipated hurricane or high wind event, the solar panel must be secured with screws in the flat position.

NOTE: Some 10 watt panels may have a clip/screw assembly. To adjust panel on these units, **loosen, but do not remove**, the assembly located on each side of the solar panel bracket. Adjust the solar panel to desired position and tighten screws (see inset).





W A R R A N T Y

This Natural Light Solar Attic Fan has a 25 year warranty on the housing, the solar panel and the motor.

IMPORTANT: PLEASE COMPLETE AND MAIL THE CARD BELOW AS SOON AS YOUR SOLAR ATTIC FAN IS INSTALLED. This card will serve as proof of your purchase, should you misplace your original invoice.

The manufacturer warrants this product to be free from defects in material and manufacturer’s workmanship for a period of 25 years on the motor, the solar panel and the housing, from the date of installation. This warranty is subject to proper installation of the unit in accordance with the manufacturer’s written installation instructions. The manufacturer will not be liable for any special, incidental or consequential damages in any way related to, or arising out of, defects in, or damage to, the solar attic fan.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state concerning exclusion or limitation of incidental or consequential damages.

Please fill out the form below and mail it to:

Natural Light Energy Systems • 10821 North 23rd Avenue • Phoenix, AZ 85029

REGISTRATION

Natural Light Solar Attic Fan Installer: _____

Customer Name: _____ Date of Purchase: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Email: _____

Customer Survey

Are you satisfied with the performance? Y N

What made you choose our product?

Were you satisfied with the installation job?

Comments:
