

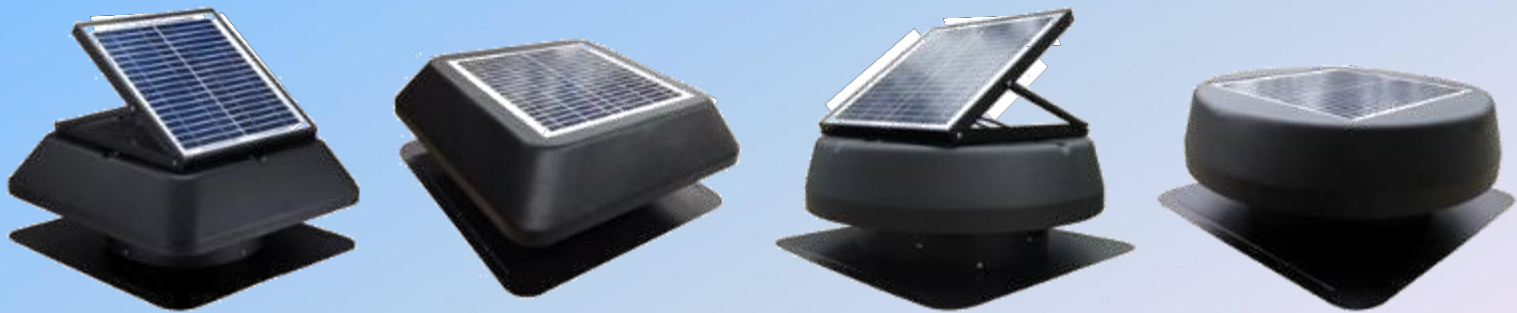
Solar Powered Roof Exhaust Fan

Enjoy the gracious solar energy to let your roof space breath freely at any time!!

- ▣ Strengthen air circulation
- ▣ Extend roofing lifespan
- ▣ Remove heat, moisture & dust
- ▣ Deduct harmful mildews
- ▣ Prevent ice-dam
- ▣ Reduce the heat load on air-conditioning ducting to help you save money



Once Pay, Benefit Long. Installed Easy, Operating Clean & Free...



The fan starts rotating instantly when the sun shines!

Function Descriptions:



▣ Improving air circulation

Taking advantage of the free & clean solar energy, this roof exhaust fan will pump out the interior heat & moisture to balance your house temperature, so as to provide a refreshing ventilation and more environmental-friendly surrounding, and to **lower down your general power consumption cost.**

▣ Extending roofing lifespan

Being exposed long to the strong sun, your roofing underlayment may go weak and even lose efficiency under the very high temperature. This roof ventilator can help reduce such heat to prolong their lifespan and to help you save certain maintenance or replacement fee.



Function Descriptions:

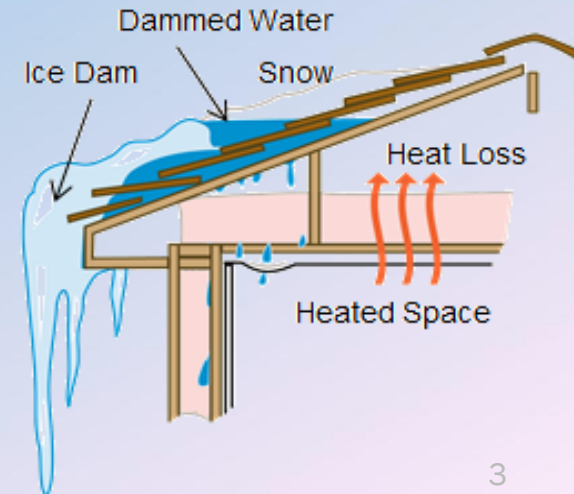


▣ Reducing moisture & harmful mildews

When collided with chilly attic-roof in winter, the interior warm & humid air will condense into water droplets, such saturated humidity might cause dangerous electrical short circuit or create mildews to harm your plasterboards. An adequate & more active indoor ventilation provided by this exhaust fan can help remove these moisture contents & harmful elements for you.

▣ Preventing ice-dam

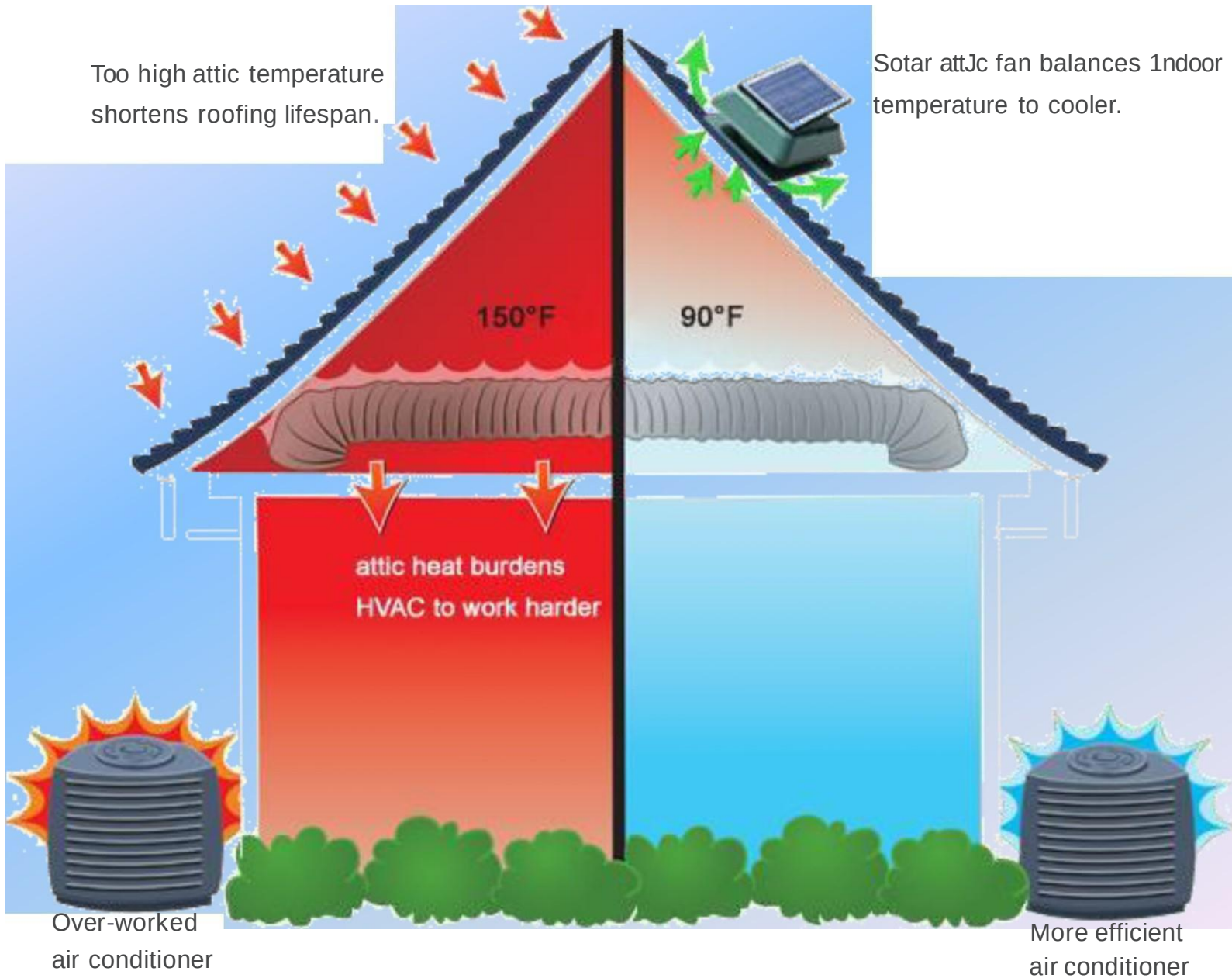
In snowy winter, interior warm air could melt those snows at roof to generate droplets falling down to the eaves. These droplets will then refreeze into ice damming on your roof and arousing dangers, this solar ventilator can help preventing such unsafe factors through keeping the indoor environment dry.



Summer Seasons:

Too high attic temperature shortens roofing lifespan.

Solar attic fan balances indoor temperature to cooler.



Application Areas:

Industrial Workshop



Agricultural Green House



Residential House

Application Areas:

Garage / Basement



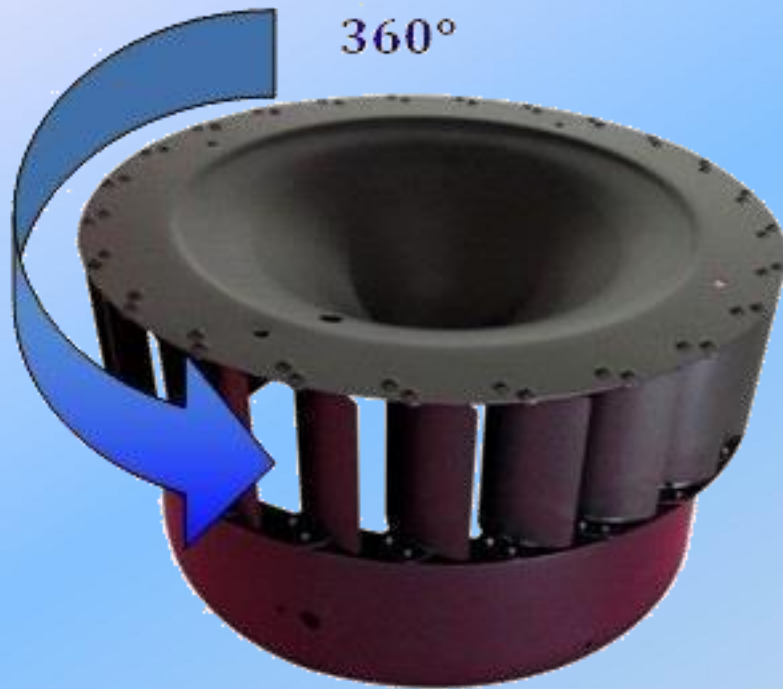
Animal Breeding House



Livestock Feeding Shed

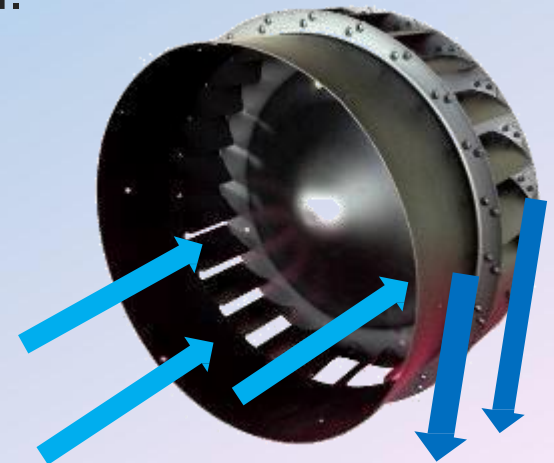


Patented Air Draft Design, for a Higher Efficiency!

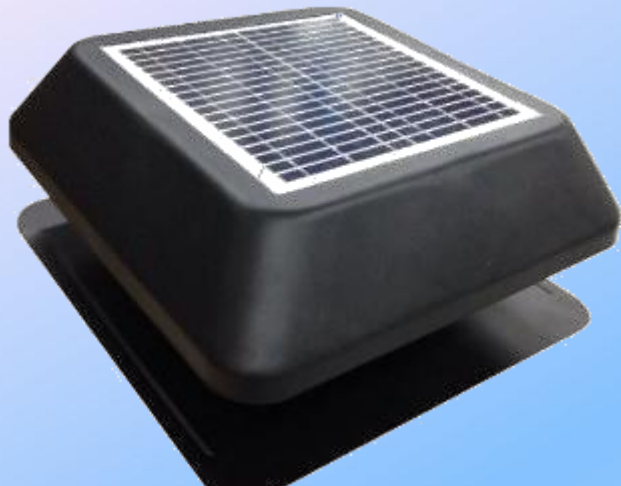


- Our patent-designed wind guide cone with 24pcs turbine wind guide blades structure is adopted in this ventilator. Following a 360-degree swirl ventilation mode and being free from outside airstream interferences, it can work efficiently in sunny days to exhaust out the indoor heat & smell and not let any exterior air going in, so as to keep the living & working environment always clean & fresh.

- In raining windy days, this air draft design can also efficiently prevent the rains or winds from flowing backward.



Product Selections:



Fixed solar panel (SQUARE cover)

You can spend less money to have the same quality of product!

4 colors:



Models	SQ2017001	SQ2017002
Solar Panel	12 watt	15 watt
	354x354x4.5mm	354x354x4.5mm
Fan Blade	12 inch	14 inch
Air Flow	884 CMH (520 CFM)	1020 CMH (600 CFM)
Motor Speed	1650 RPM	1450 RPM
Host Size	530x530x220mm	530x530x220mm

* Solar Panel can be enlarged maximum into 18 watt for stronger air flow!

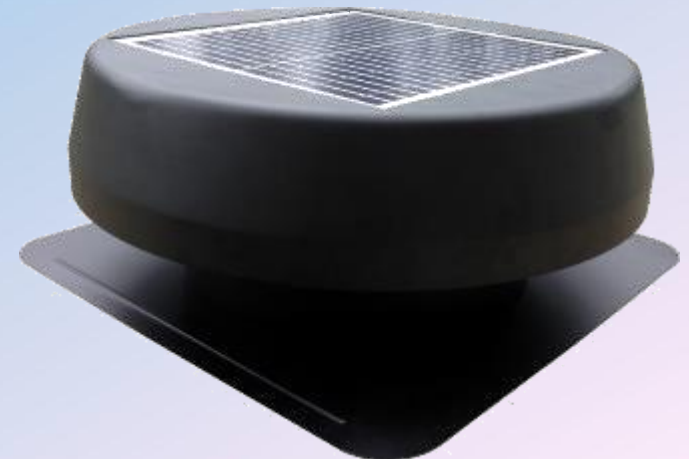
Product Selections:

Fixed solar panel (ROUND cover)

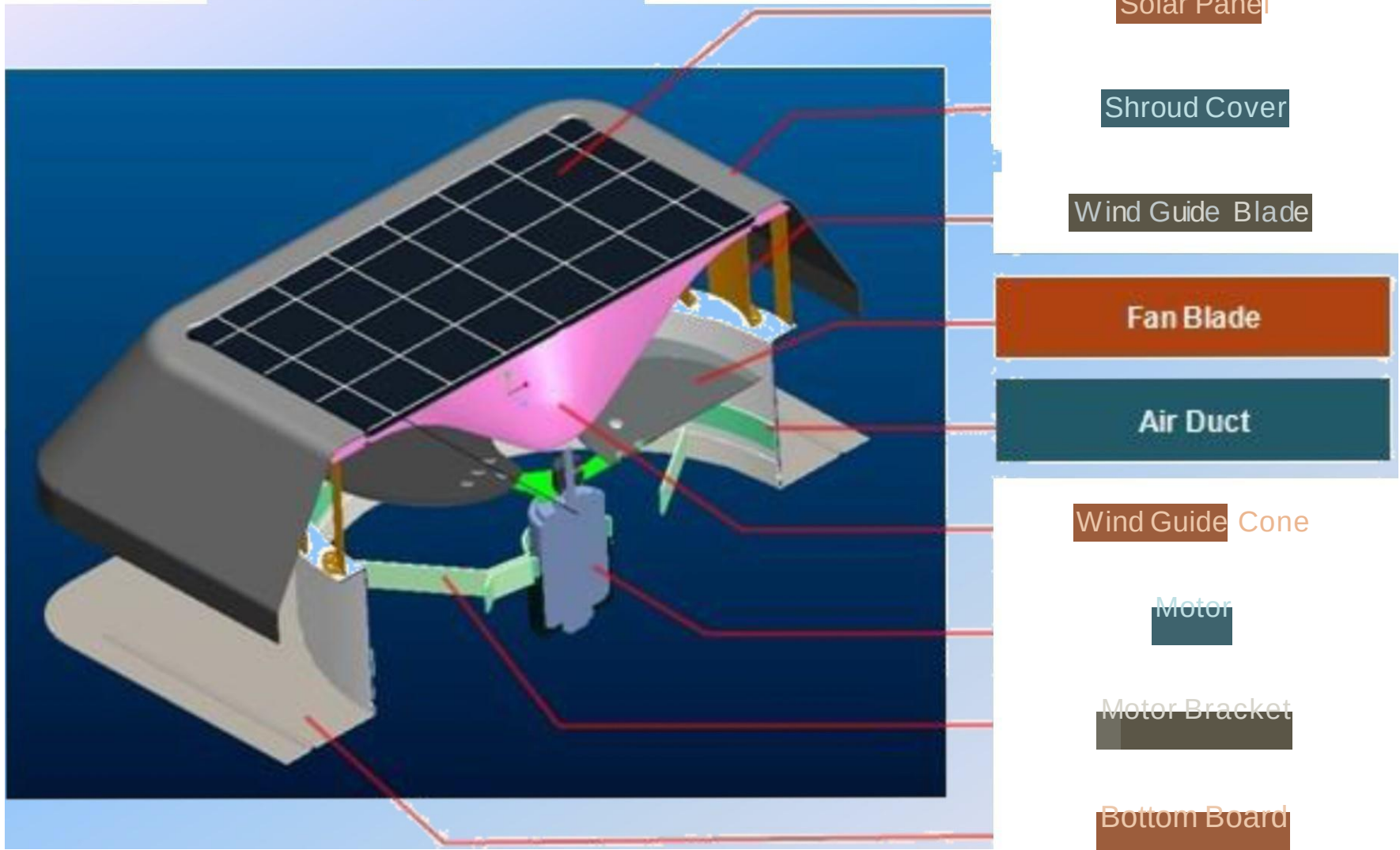
Models	RD2017003	RD2017004
Solar Panel	12 watt	15 watt
	354x354x4.5mm	354x354x4.5mm
Fan Blade	12 inch	14 inch
Air Flow	884 CMH (520 CFM)	1020 CMH (600 CFM)
Motor Speed	1650 RPM	1450 RPM
Host Size	530x530x220mm	530x530x220mm

* Solar Panel can be enlarged maximum into 18 watt.

4 optional colors:



Part Descriptions:



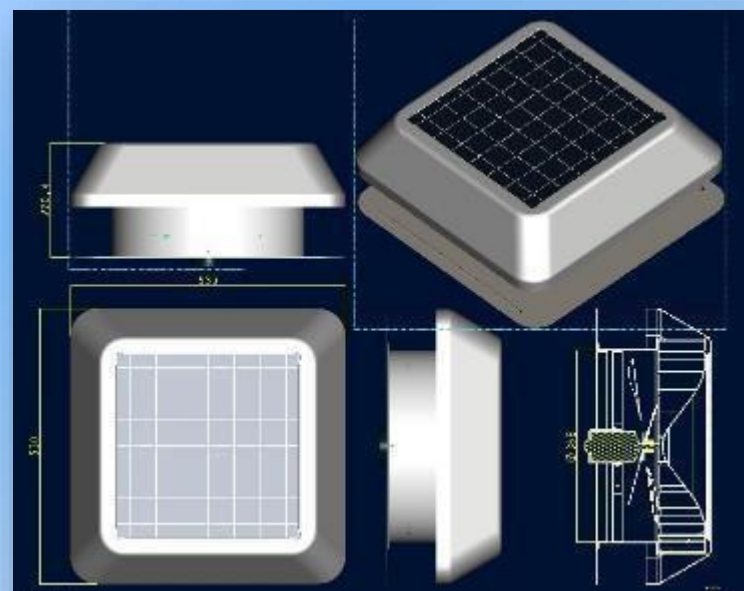
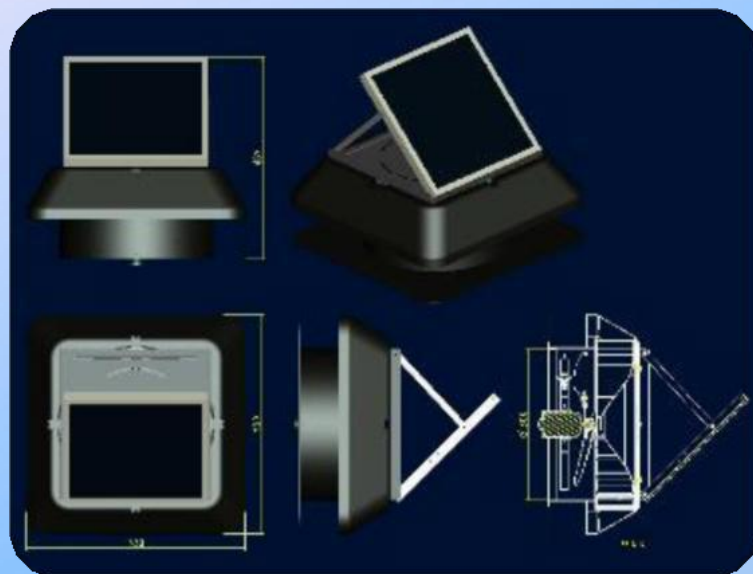
(for the solar panel fixed models)

Bill Of Material (for the solar panel fixed models)

Item	Part Name	12" FAN	14" FAN
		Part Description	Part Description
1	Solar panel	12W, 17.4V, 0.689A	15W, 17.4V, 0.862A
2	Shroud cover	Material: Galvanization steel , $\varnothing 1.0$	Material: Galvanization steel , $\varnothing 1.0$
3	Wind guide cone	Material: Galvanization steel , $\varnothing 1.0$	Material: Galvanization steel , $\varnothing 1.0$
4	Wind guide blade	Material: Galvanization steel , $\varnothing 1.0$	Material: Galvanization steel , $\varnothing 1.0$
5	Air duct	Material: Galvanization steel , $\varnothing 1.0$	Material: Galvanization steel , $\varnothing 1.0$
6	Fan blade	Material: Aluminum	Material: Aluminum
7	Motor	Brush / Brushless DC Motor	Brush / Brushless DC Motor
8	Motor bracket	Material: Galvanization steel , $\varnothing 2.0$	Material: Galvanization steel , $\varnothing 2.0$
9	Bottom board	Material: Galvanization steel , $\varnothing 1.2$	Material: Galvanization steel , $\varnothing 1.2$

* Fan motor is optional for brush dc or brushless dc type!

Product Size & Weight:

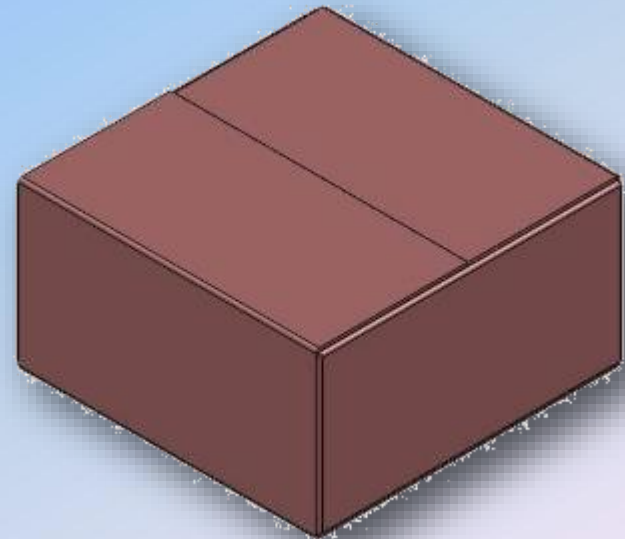
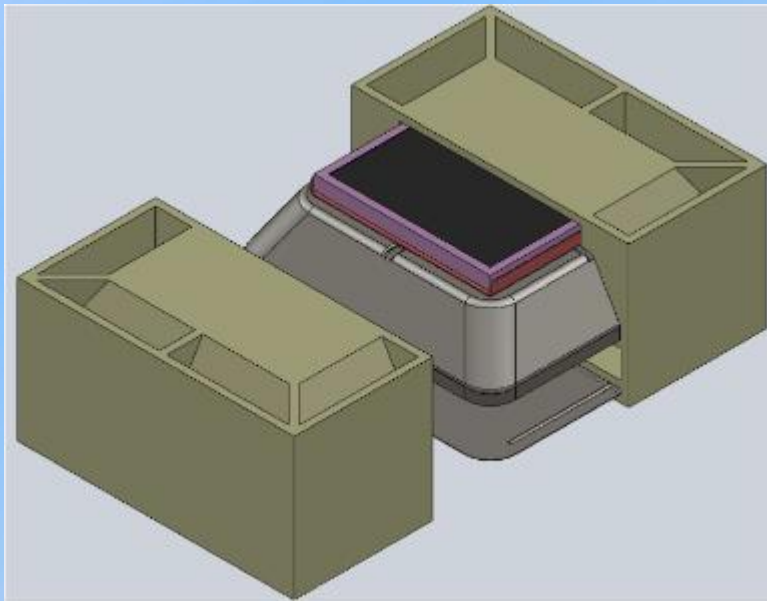


Item	Host Size			Air Duct		Gross Weight	
	Length	Width	Height	12" Fan	14" Fan	12" Fan	14" Fan
solar panel adjustable	530 mm	530 mm	250 mm	315 mm	368 mm	15.5-16.5 kg	15.7-17.2 kg
solar panel fixed	530 mm	530 mm	220 mm	315 mm	368 mm	13.9-14 kg	14.1-14.2 kg

* The above dimension is basing on solar panel lays horizontally.

Packing & Container Loading:

Packing (1PC/Carton)			Package Volume	Loading Quantity	
Length	Width	Height		20' GP	40' HQ
650 mm	650 mm	330 mm	0.14 cbm	216 pcs	516 pcs

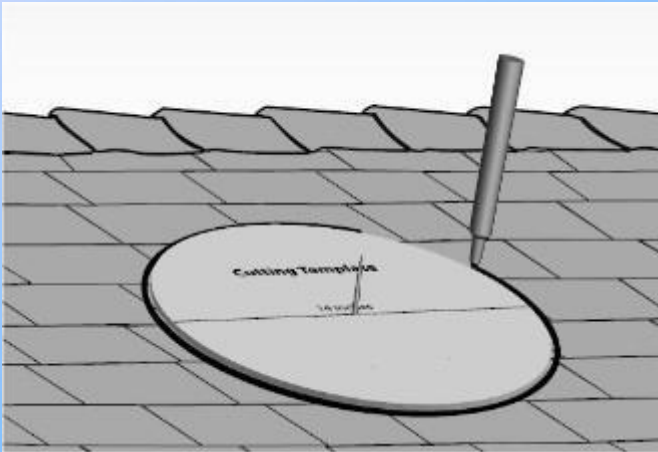


The optional 20W, 30W or 40W solar battery system is packed in an extra carton, volume in 0.022cbm, 0.028cbm & 0.029cbm correspondingly.

Installation and Mounting Guide

Step 1. Draw and Cut A Circle as the Venting Hole

Choose a place due south or southwest to the sun as mounting position for your solar fan, where the sun should not be shaded or blocked, so that your fan can capture direct and enjoy extended period of sunlight throughout the day.



Tips: The chosen position is 18 – 24 inches away from top of the roof peak and as close to the mid-point of house as possible.

Then trace along the cutting template for a circle and cut out a complete hole at 12" or 14" diameter as the venting hole for product.

Step 2. Position Your Solar Fan upon the Hole

*Don't bring the product up on roof until you finish cutting the mounting hole.

*Always secure your fan on roof to avoid injury or having the fan slide off the roof and get damaged.



Installation and Mounting Guide

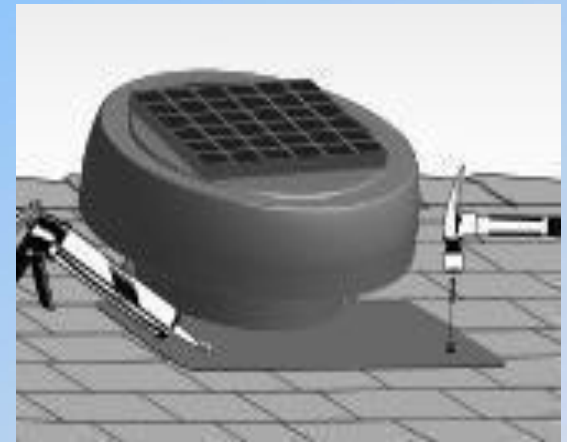
Step 3. Secure the Solar Fan

Drive through visible pre-drilled holes on bottom board with screws or nails to secure your solar fan to the roof. Then apply waterproof roofing sealant to the screw heads to prevent water percolation.

Notes:

*Any shingles that remain loose should be fixed with nails & waterproof roofing sealant as well.

*If your ventilator is to mount on industrial metal roof, please apply waterproof sealant on 2 sides of bottom board and attach with additional metal bars, then spray waterproof sealant onto the metal bars to prevent leaking.



additional metal bars

Thanks for being interested in our solar roof exhaust fans!

Please feel free to contact us for any further information:

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