



Solar Innovations

tubular skylights & solar attic fans

We at Solar Innovations take pride in being able to offer our customers the best products on the market. That is why we install and distribute Natural Light brand tubular skylights and solar attic fans. From the one-of-a-kind molecularly-bonded reflective material in the tubular skylights to the adjustable solar panel on the fans, both products are manufactured using only high quality components and offer an outstanding warranty of 25 years.

2012

Product Information Booklet

Tubular Skylights

General Overview.

Tubular skylights allow you to bring free sunlight into any dark space. They are great for kitchens, bathrooms, hallways, closets, offices, etc. With tubular skylights, you will have a full visible spectrum of light, reducing eye strain caused by artificial lighting, while blocking harmful UV rays and reducing your electric bills. Natural Light Tubular Skylights do not contribute to heat loss or gain, unlike standard framed-in skylights. Installed on any roof surface in under two hours, you will quickly realize the cost benefits of a tubular skylight over other lighting alternatives. The difference is night and day!

How it works.

Sunlight enters the dome, is reflected through the light pipe, then dispersed into the room by way of a diffuser on the ceiling.

Available Sizes & Styles.

The tubular skylights are available for residential installations and for commercial applications.

1) *Sizes:*

- **10"**—The 10" tubular skylight model illuminates up to 150 sq. ft. and is equivalent to 300 watts.
- **13"**—The 13" tubular skylight model illuminates up to 300 sq. ft., which is equivalent to 500 watts.
- **18"**—The 18" tubular skylight model illuminates up to 500 sq. ft. and is equivalent to 1000 watts. These are designed for homes and commercial buildings built at 24 inch on center construction.
- **21"**—The 21" tubular skylight model illuminates up to 700 sq. ft. and is equivalent to 1450 watts. These are for commercial applications only and are available either with a standard trim ring for sheet rock ceilings or with a warehouse trim ring for suspended drop ceiling installations that fit standard office ceiling grid systems.



standard trim ring



drop ceiling

2) *Styles:*

- **Flashing**
 - ↳ **Pitched**—available in the 10", 13", & 18" models, NOT 21"
comes in unpainted aluminum or powder-coated black



- ↳ **Flat**—available in the 10", 13", 18", & 21" models
comes in unpainted aluminum or powder-coated black (10", 13", 18" only)



- ↳ **Curb Mount**—available in the 21" model only
comes in unpainted aluminum

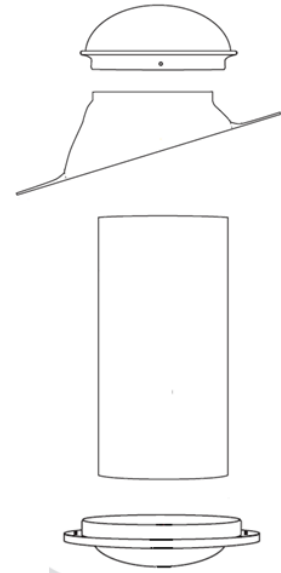


- Diffusers
 - ↳ Prismatic
 - round convex—available in 10”, 13”, 18”, & 21”
 - round flat—available in 10”, 13”, 18”, & 21”
 - square flat—available in 21” only
 - ↳ Soft White
 - round convex—available in 10”, 13”, 18”, & 21”
 - round flat—available in 10”, 13”, 18”, & 21”
 - ↳ SkyBrite
 - round flat—available in 10” & 13” only



Components.

- 1) *Acrylic Dome*--superior strength, hi-impact resistant, weather resistant, able to withstand large temperature swings, leak-proof, prevents condensation, blocks harmful UV rays, low profile, will not discolor
- 2) *Seamless Aluminum Flashing*--commercial pure aluminum, grade 1100 series, seamless to prevent leaks, minimal roof disturbance
- 3) *Reflective Light Pipe*--micro-silver surface specifically designed for 98% reflectivity of pure white light even in early morning and late afternoon, not laminated, will not crack, peel, or flake off, will not discolor
- 4) *Trim Ring & Diffuser*--white aluminum ring for sturdiness and easy blending with ceiling; several diffuser styles available, designed for light dispersion without spotlight effect or lighting glares, easy to clean, dust and moisture free seal, harmful UV rays are filtered out



Key Features

- Unique condensation release system prevents moisture build-up
- Low-profile unit blends seamlessly into roof line
- Built-in UV protection prevents fading on clothing, furniture and rugs
- Bug and dust proof sealing system
- Water tight, will not leak and is maintenance free
- Fits any roof pitch and adapts to any type of roof system
- Quick and easy installation - very few steps to complete
- No structural changes, wiring or painting required
- 25-year product warranty—best in the industry
- ENERGY STAR® qualified
- Qualifies for a 10% Federal Tax Credit
- ICC-ES Listed
- Florida Building Code Approved
- Hurricane Tested and Approved

Tax Credit Information.

Natural Light Tubular Skylights are so energy efficient that they are ENERGY STAR® qualified in all 50 states. The residential models also qualify for a 10 percent Federal Tax Credit as defined in the Tax Relief, Unemployment Insurance Reauthorization and Job Creation Act of 2010 (installation must be completed between January 1, 2011 and December 31, 2011).



Optional Accessories

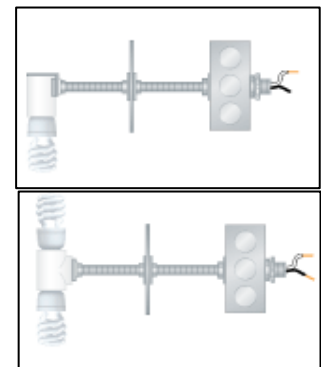
1) *Dimmer* -The Natural Light remote controlled dimmer allows you to adjust the amount of daylight entering the room through your tubular skylight. The dimmer is available for the 10", 13" and 21" tubular skylight models. It's perfect for any room that may need to be darkened during the day including bedrooms, TV or media rooms and conference rooms. The dimmer kit is fully assembled and easy to install. It is a short section of light pipe that houses a rotating disc used to block out the incoming light. The amount of light entering the room will vary on the position of the rotating disc which is operated by adjusting the ON and OFF buttons on the included remote control.



2) *Exhaust Vent Kit* - The Natural Light exhaust vent kit can be incorporated into the 10" tubular skylight to reduce warm moist air prevalent in bathrooms. It is capable of exhausting 125 cfm, enough to vent a bathroom and shower stall. The unique design disguises the intake vent in a sleek trim ring that incorporates the skylight diffuser. No more ugly vent grates! The vent is connected to a motor that is remotely located in your attic space, making it extremely quiet. Flexible exhaust tubing allows for many venting options including a dual exhaust in your shower stall.



3) *Light Kit* -There may be instances where a room is either too small or it is otherwise undesirable to have a second light fixture on the ceiling. This is when the light kit can come in handy. It adds an electric light fixture into your tubular skylight for night time use and can be installed in the previous fixture's ceiling rough out or can be added anywhere with additional electrical wiring. The light kit is available in 2 different models: single bulb and dual bulb. The light kit can hold standard, CFL (compact fluorescent) or LED light bulbs. The kit must be wired to 120 VAC supply according to local codes and must be properly grounded.



Solar Attic Fans

General Overview.

The Solar Attic Fan is a simple and environmentally-sensible solution that can protect your home and even save you money. The fan is powered by solar energy and is quiet and efficient. Its function is to improve attic air circulation resulting in a healthier, energy-efficient home. It keeps your attic cooler in the summer, helping reduce the load on your HVAC system, thus saving you on electricity. In the winter, it prevents moisture build-up and ice damming. Natural Light Solar Attic Fans are one of the best in their class with the highest standards for quality and functionality. There is a 25 year product warranty - best in the industry.



How it works.

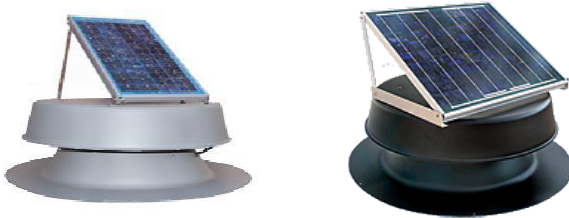
The sun shines on the solar panel, sending a current to the motor, which sets the blade into motion, pulling out the hot air and moisture in your attic out.

Available Sizes & Styles.

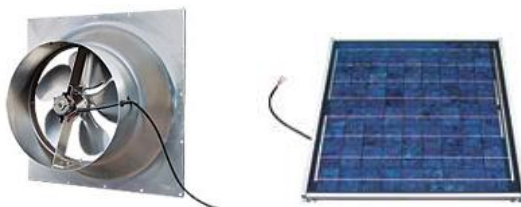
The solar attic fans are available for all roof types and roof pitches for residential homes, industrial buildings or commercial offices.

1) Styles:

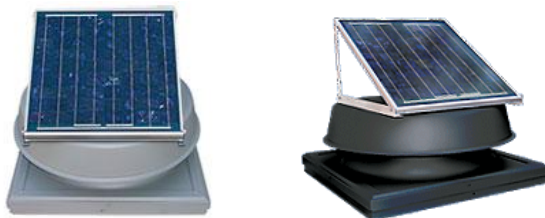
- **Roof-mount**--The roof-mounted solar attic fan, the most popular residential model, installs directly on most roof types including shingle, shake and tile roofs. Available in powder-coated gray or powder-coated black satin.



- **Gable End**--The gable-mounted model attaches to your homes' existing gable opening and is powered by a remote solar panel installed on the roof.



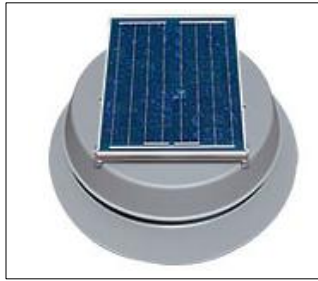
- **Curb Mount**--The curb mounted solar attic fan, generally used for commercial applications, attaches to a pre-built curb. Available in powder-coated gray or powder-coated black satin.



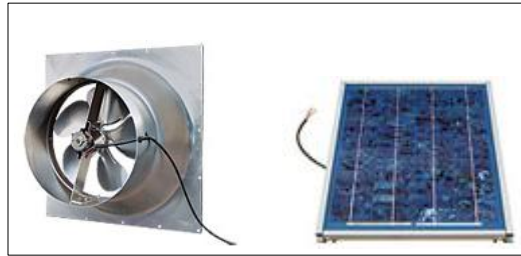
3) *Sizes/Wattages/Power:*

The roof-mount and gable-end fans are available in 4 solar panel sizes:

- 10 watt-- vents up to 850 cfms (1200 sf). [not available in curb-mount style]

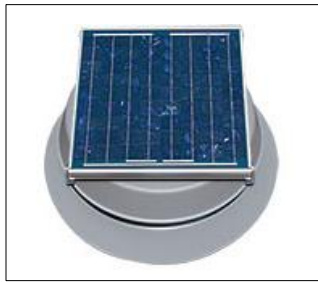


roof mount

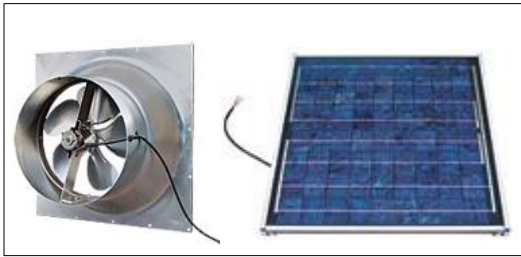


gable end

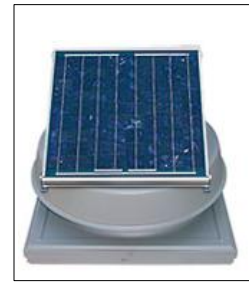
- 20 watt-- vents up to 1275 cfms (2000 sf).



roof mount



gable end

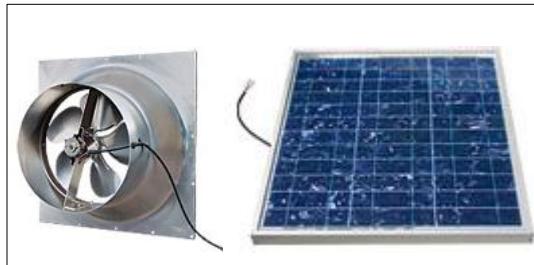


curb mount

- 30 watt-- vents up to 1550 cfms (2500 sf).



roof mount



gable end



curb mount

- 50 watt-- vents up to 1900 cfms (3100 sf).



roof mount



gable end



curb mount

NOTE: All other components are the same size on all models. The solar panels on the 50 watt units are installed remotely.

Components.

- 1) *Photovoltaic Solar Panel* -hi-impact, weather resistant, adjustable mounting bracket, optimum performance on all roof slopes
- 2) *Heavy-Duty Housing*- commercial pure aluminum, seamless to prevent leaks, powder-coated for durability, sleek unit blends into roof line
- 3) *Direct Current Motor*- precision balanced, 25 year warranty, smooth, quiet operation, secured to isolation bracket
- 4) *5-Wing Fan Blade*-non-corrosive aluminum, precision balanced, high cfm output,
- 5) *Protective Animal Screen*-stainless steel wire mesh, keeps out debris, bugs, birds and small critters
- 6) *Heavy-Duty Flashing*-commercial pure aluminum, seamless to prevent leaks, powder-coated for durability, designed to maximizes air flow

Key Features

- Solar powered - operates for free during the day
- Adjustable solar panel bracket to achieve optimal solar exposure
- Low-profile unit blends seamlessly into roof line
- Water tight, heavy-duty aluminum flashing/housing
- Fits any roof pitch and adapts to most roofing systems
- Stainless steel screen keeps out debris, bugs, bird and rodents
- Quick and easy installation - very few steps to complete
- No structural changes, wiring or painting required
- Powerful, yet quiet motor
- 5 wing fan blade
- 25-year product warranty—best in the industry
- Made in the USA

Tax Credit Information.

Natural Light Solar Attic Fans are so energy efficient that they qualify for Federal (and NC State) Solar Tax Credits as defined in the Emergency Stabilization Act as a residential photovoltaic system.

Optional Accessories

1) *Thermal Snap Switch*--a small device that attaches to the attic fan motor. It is designed to turn on the Natural Light Solar Attic Fan when the temperature in the attic reaches approximately 80°F. then turn off the motor when the temperature in the attic reaches 70°F.



2) *Fire Safety Cut Off Switch*--designed to help stop the spread of house attic fires during daytime fan operation by shutting down the fan. It has a fusible link that will melt at 228 degrees Fahrenheit, limiting the introduction of fresh air that would otherwise help feed a fire.



3) *Garage Vent*--adds an exhaust system to a roof-mount or curb-mount solar attic fan to efficiently pull hot air out of your garage.



(optional damper)

