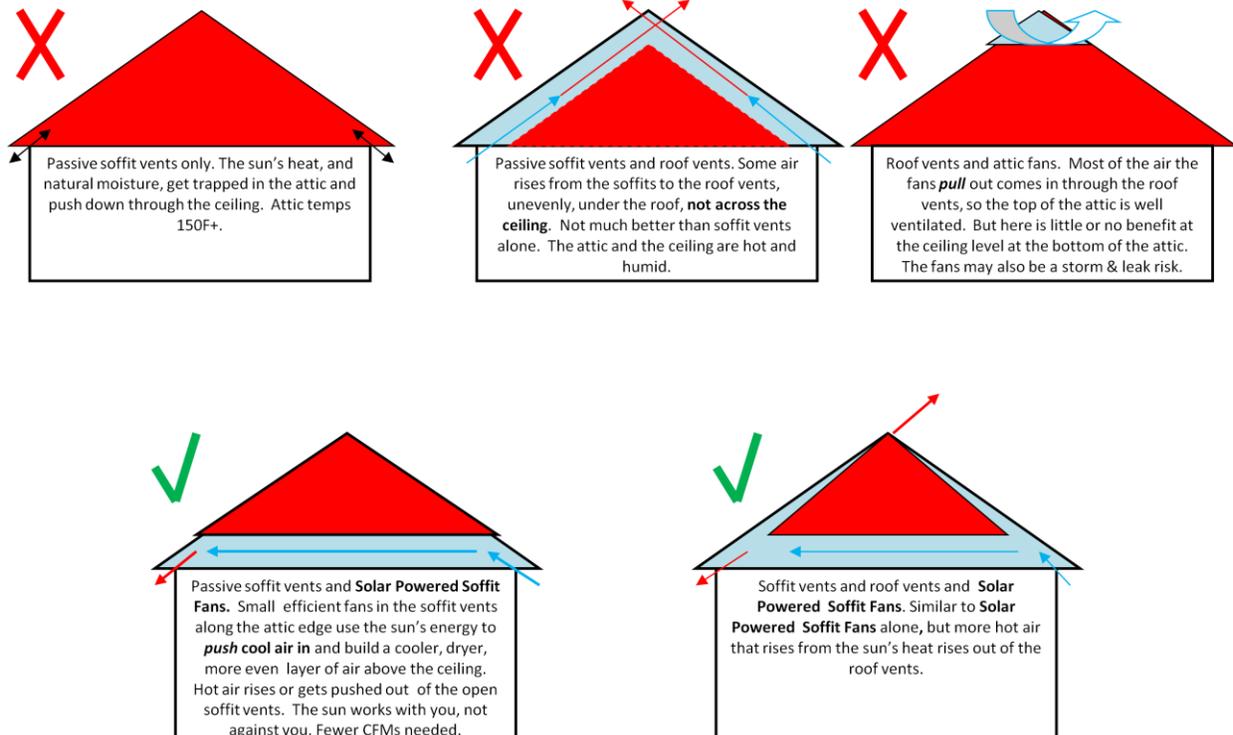


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SOLAR POWERED SOFFIT FANS LLC



House attics trap heat from the sun, hot air, and moisture. The heat and moisture pushes down into the house's living area. The AC runs constantly to try to keep up, and mildew and mold can form where the AC-cooled ceiling meets the hot, moist attic air. The living area seems "musty" and you can feel the ceiling heat.

Static attic vents, such as soffit vents and ridge vents, help a little by letting some of the hot air out of the attic, but they are often ineffective, and attic temperatures *above 140-150 degrees* are common.

Conventional attic exhaust fans and wind turbines can pull hot, moist air out of the *top* of the attic at one or two spots, but cooler, drier air doesn't reach most of the ceiling area in the *bottom and center* of the attic, where it's needed the most to help the living area. Any fresh air that enters through soffit vents around the attic edges is drawn upwards along the underside of the roof, never reaching the living area ceiling in the *bottom and center* of the attic. Unfortunately, conventional attic exhaust fans may also pull air conditioned air through gaps and cracks in the ceiling, causing moist, hot air to enter the house through windows, doors, and floors below. *If the attic seems cooler when attic exhaust fans are running, it may be because the AC is being pulled into the attic, costing \$\$\$\$!*

Solar Powered Soffit Fans take a different approach. Solar Powered Soffit Fans use the sun and the natural process of *thermal stratification*, which is the layering of rising air, from cool at the bottom to hot at the top, to cool the lower attic and living area ceiling below it. Instead of *conventional single exhaust fans* near the top of the attic, Solar Powered Soffit Fans use *multiple, spaced supply fans* to push cool, dry air from under the shaded roof overhangs, into the attic and across the top of the ceiling insulation, then toward the center of the ceiling, creating

a cool, dry layer between the ceiling and the hot attic air above it. Less heat and moisture enters the living area, and AC is not pulled up, through the ceiling, by an attic exhaust fan.

If the attic already has roof vents, gable vents, attic fans, gable fans, or wind turbines, Solar Powered Soffit Fans act as a booster that makes them more effective by increasing their exhaust air flow, in addition to Solar Powered Soffit Fans' own cooling and drying effect in the bottom and center of the attic airspace.

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