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The Attic Depot 30-Watt Solar Attic Fan

Product Data Sheet



Description

The 30-Watt solar attic fan by The Attic Depot is comprised of a galvanized steel powder coated housing with a 30w/24v brushless motor. When installed properly our solar fans will pull hot air and moisture from the attic using active air flow, moving 1550 cubic feet of air per minute.

Details

Wattage: 30 Watt

Voltage: 24 Volts

Type: Available in Roof and Gable Mount

Humidity Sensor: 75% on 60% off

Thermostat: 85° on 70° off

CFM: 1550

Material: Powder Coated Galvanized Steel

Use

Attic ventilation is critical to attic temperature. The closer the attic temp is to the outside ambient temperature, the more efficient the home. Solar fans work by using active air flow. Other forms of ventilation are passive, meaning they allow air in and out but are not actively moving that air. Active air flow is crucial for energy efficiency.

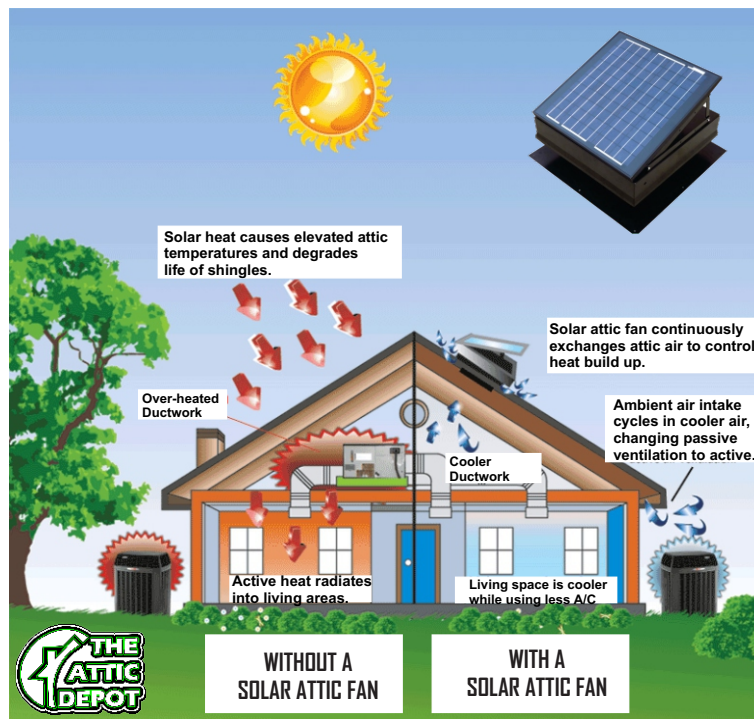
Key Properties

Active air flow cools the attic.

Our fans only run when they are needed.

Extends the life of your roof & HVAC by keeping temperatures down.

Lifetime Warranty.



Approximate Savings with Solar Attic Fan

For this purpose, we will use a 2000 square foot attic and R-30 Insulation.

The following US Dept. of Energy Equation shows the savings by installing a solar fan.

U=Heat Load A=Area CLTD=Cooling Load Temperature Difference.

Without a Solar Fan

140°F Attic and 70°F Air Conditioned Space:

$$U (0.036) \times A (2000) \times CLTD (70^{\circ}F) = BTU (5040) \text{ Total BTUs used without a solar fan} = 5040$$

With a Solar Fan

100°F Attic and 70°F Air Conditioned Space: (Solar fan should decrease temps by 40°F)

$$U (0.036) \times A (2000) \times CLTD (30^{\circ}F) = BTU (2160) \text{ Total BTUs used with a solar fan} = 2160$$

5040 BTUs used without fan - 2160 BTUs used with fan = 2880 BTUs saved
2880 BTUs saved / 12000 BTUs per refrigeration ton = 0.24 tons saved

So for a 3 ton HVAC system:

0.24 tons saved / 3 tons = 8% savings

For a \$300 month average energy bill: 8% x \$300/month = **\$24 per month saved.**

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