

SOLAR POWERED VENTILATION

IT'S ALL ABOUT THE CFM

Cardinal Ventilation is proud to introduce our CV-2000 and CV-3000 model solar attic fans. With exceptional airflow performance, quality construction and an impressive price point – our products are certain to improve attic air circulation resulting in an abundance of benefits ranging from improved comfort to savings to a prolonged roof life and more.

Cardinal Ventilation solar attic fans feature:

- Choice of 20 watt (CV-2000) or 30 watt (CV-3000) commercial-grade multicrystalline solar panel
- Corrosion-resistant aircraft grade spun aluminum hood
- Heavy duty powder coated steel base and brackets with black, matte textured finish
- Integrated adjustable solar panel bracket
- High-efficiency variable speed DC motor
- Whisper quiet 14" balanced, aluminum fan blade
- Stainless steel hardware and wildlife guard
- Thermal switch control optional
- Standard 25 Year Warranty covering the motor, solar panel, vent housing, fan blade and all other parts included with your fan
- Made in the USA and ARRA Compliant
- Windstorm certification pending



PERFORMANCE

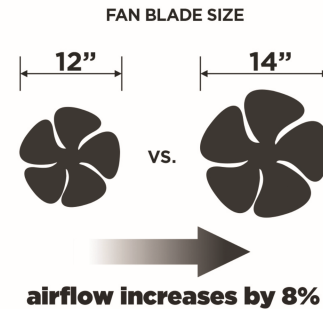
Model	CV-2000	CV-3000
maximum airflow	1350 CFM	1650 CFM
solar panel	20 watt	30 watt
adjustable panel	yes	yes
thermal switch	option	option
corrosion resistance	powder coated	powder coated
finish	black matte textured	black matte textured
fan housing	aluminum & steel	aluminum & steel
fan housing style	venturi	venturi
fan blade	14" aluminum	14" aluminum
hardware	stainless steel	stainless steel
wildlife guard	stainless steel	stainless steel
noise level	<30 db (1 sonne)	<30 db (1 sonne)
roof flashing	self-flashing	self-flashing
windstorm certified	pending approval	pending approval

ATTIC COVERAGE

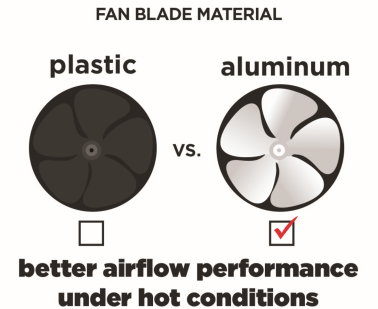
	4/12 roof pitch		6/12 roof pitch		12/12 roof pitch	
CV-2000	attic area	fans needed	attic area	fans needed	attic area	fans needed
	2100 sqft	1	1750 sqft	1	1400 sqft	1
CV-3000	attic area	fans needed	attic area	fans needed	attic area	fans needed
	2650 sqft	1	2150 sqft	1	1650 sqft	1
	4200 sqft	2	3600 sqft	2	2800 sqft	2

Comparing different solar attic fans can often be confusing and sometimes misleading. One manufacturer's 20 watt model fan may not be the same as another manufacturer's due to the difference in the size of the fan blade used, the type of fan blade material and even the shape of the vent housing coupled with the pitch of the fan blade. The CFM (airflow rating) will tell you the actual performance of the solar attic fan.

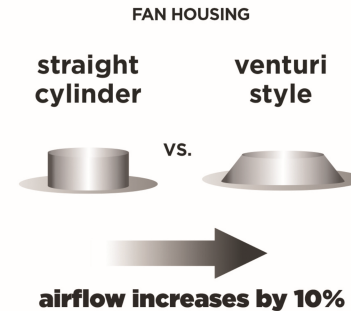
Below are some general guidelines to help discern fact from fiction:



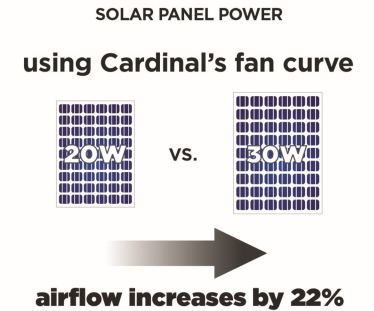
The size of the fan blade directly determines the amount of airflow that a fan can produce. Given two solar attic fans with the same fan housing style and solar panel power, the larger the fan blade, the greater the airflow performance.



Fan blades fall into 2 general categories: those made of aluminum and those that are made of plastic (polymer, polyvinyl, etc.) Under hot conditions (like an attic), plastic fan blades can deform over time and lose rigidity. This will adversely affect the performance of the solar attic fan blade thus resulting in significantly less airflow.



A venturi-style fan housing will always allow a fan to move more air than a straight cylinder fan housing due to air friction. Solar attic fans with venturi-style housings have a much larger roof hole cut-out in relation to the size of their fan blade to allow for more air intake which optimizes the performance of the solar attic fan based on airflow physics.



Assuming 2 solar attic fans have the same style of housing and same blade size, the amount of power supplied by the solar panel will change airflow performance on the fan curve for that specific product. Since these fan curves are specific to each manufacturer, the actual effect of the solar panel power in relation to the CFM is not consistent across manufacturers.