

iSolar FLEX Line Solar Powered Ventilation Fan Sizing Guide

Attic Area Vented (Sq. Ft.)	FLEX Line Model Number	Solar Panel Size (Watts)	Fan Quantity	Fan Diameter (in./mm)	Fan CFM MAX	Total CFM MAX
0-500	20W106-FLEX	20	1	6/172	305	305
0-500	50W206-FLEX	50	2	6/172	305	610
500-1000	50W108-FLEX	50	1	8/200	615	615
500-1000	80W110-FLEX*	80	1	10/254	910	910
1000-1500	80W306-FLEX*	80	3	6/172	305	915
1000-1500	80W208-FLEX	80	2	8/200	495	990
1000-1500	120W208-FLEX	120	2	8/200	615	1230
2000-2500	120W308-FLEX	120	3	8/200	506	1518
2000-2500	120W210-FLEX*	120	2	10/254	860	1720

*all 10" fans will not fit in a traditional 50 NFA vent cover and require a new larger vent cover.

Notes: All multi-fan options are suitable for the Attic/Crawlspace combination venting option. See accessory specification sheet for more details. When selecting a system for retrofit into existing vents, please measure existing vents for fitment before ordering.

Basis for Sq. Ft. CFM calculations. Range is based on columns below. Powered attic ventilators – PAVs

Powered attic ventilators should provide at least 10 air changes per hour. Multiplying the total square footage of the attic by 0.7 will provide the rate required. For particularly dark or steep roofs, we recommend a slightly higher rating.

Attic area	Minimum CFM required	+15% for dark/steep roofs
<1,000 square feet	700 CFM	805 CFM
1,000 - 2,000 square feet	1,400 CFM	1,610 CFM
2,000 - 3,000 square feet	2,100 CFM	2,415 CFM
3,000 - 4,000 square feet	2,800 CFM	3,220 CFM

The air being exhausted must be replaced by outside air drawn through vents under the eaves in the soffit. To calculate the total minimum soffit vent intake area in square inches, divide the CFM of the PAV by 300 and multiply the result by 144.