

iSolar FLEX Line Solar Powered Ventilation Fan Sizing Guide

Attic Area Vented (Sq. Ft.)	FLEX Line Model Number	Solar Panel Size	Fan Quantity	Fan Diameter (in./mm)	Fan CFM MAX	Total CFM MAX
		(Watts)				
0-500	20W106-FLEX	20	1	6/172	305	305
500-1000	50W108-FLEX	50	1	8/200	570	570
500-1000	50W206-FLEX	50	2	6/172	305	610
500-1000	80W110-FLEX	80	1	10/254	910	910
1000-1500	50W208-FLEX	50	2	8/200	570	1140
1500-2000	50W210-FLEX	50	2	10/254	710	1420
2000-2500	50W308-FLEX	50	3	8/200	570	1710
2000-2500	80W210-FLEX	80	2	10/254	860	1720
2500-3000	50W310-FLEX	50	3	10/254	710	2130
3000-3500	80W408-FLEX	80	4	8/200	570	2280
3500-4000	80W310-FLEX	80	3	10/254	820	2460
4000-4500	80W410-FLEX	80	4	10/254	800	3200

**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 in square feet	CFM required	+15% for dark/steep roofs
1,000 square feet	700 CFM	805 CFM
2,000 square feet	1,400 CFM	1,610 CFM
3,000 square feet	2,100 CFM	2,415 CFM
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.

