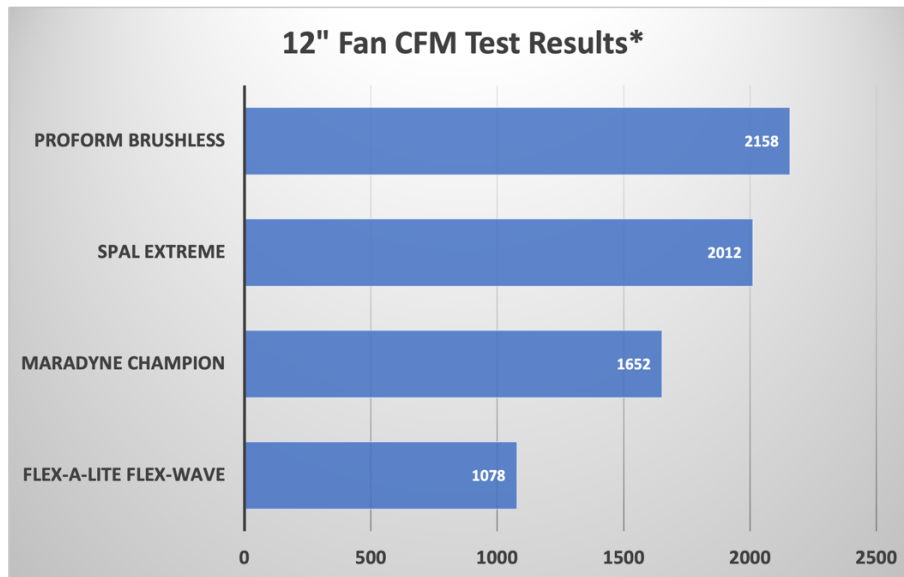


CFM Comparative Testing for Popular 12" Performance Fans, 12 Volt



Introduction: The purpose of this study was to measure and compare CFM performance of 4 popular aftermarket electric fans. All fans are 12 volt rated puller fans.

Test Equipment:

- CFM Master® Anemometer, Model 8901
- Pyramid® AC Power Supply, Model PSV-300

Technique: Each fan was tested by moving the anemometer gauge around various areas of the fan surface. The anemometer recorded the Max CFM from the function area of the fan. The functional area was inputted into the anemometer so that CFM could be calculated accurately. The functional area of the fan was calculated by subtracting the area of the fan hub from the total area of the fan blade. Area is defined as: $Area = \pi r^2$

Data Collected:

Brand	Model	Part number	Height	Weight lbs.	Blade Type	Function Fan Area Ft(2)	AMP Draw	Soft Start?	CFM
PROFORM	Brushless	67034	3"	3.9	Straight	0.686	15	Yes	2158
SPAL	Extreme	30103202	4.5"	7.25	S-Blade	0.686	13	No	2012
Maradyne	Champion Series	M122K	3.25"	4.8	S-Blade	0.681	10.25	No	1652
Flex-a-Lite	Flex-Wave	232	3.5"	4.35	Straight	0.611	14	No	1078

Video Documentation:

Proform: <https://youtu.be/MxdK2buQnio>

SPAL: https://youtu.be/o3_v48MDFwM

Maradyne: https://youtu.be/RZda_HO6TvY

Flex-a-Lite: <https://youtu.be/LIUQv0HwciY>

Results: see CFM Test Results Chart

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