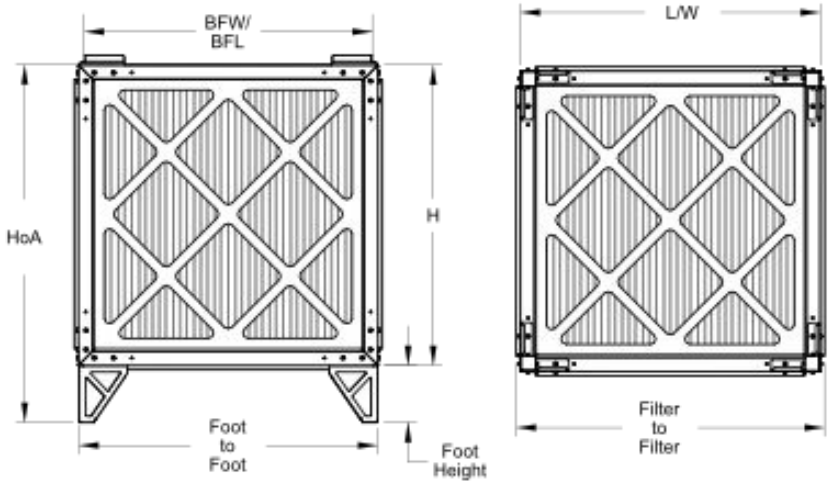
CRFB
Filter Cube

HVACquick's CRFB Series

Get superior air filtration without the hassle of installation with our CRFB. We build each unit from reclaimed materials, transforming potential waste into a sustainable and affordable defense against wildfire smoke, airborne contagions, and allergens.

Features:

- The Filter Cube is designed for efficient and affordable air filtration
- Includes five 1" MERV 13 filters.
- Elastic filter straps allow for zero-hassle filter replacement
- Accommodates 20" box fan
- Durable aluminum frame allows for simple and easy maintenance.
- Quick and simple assembly

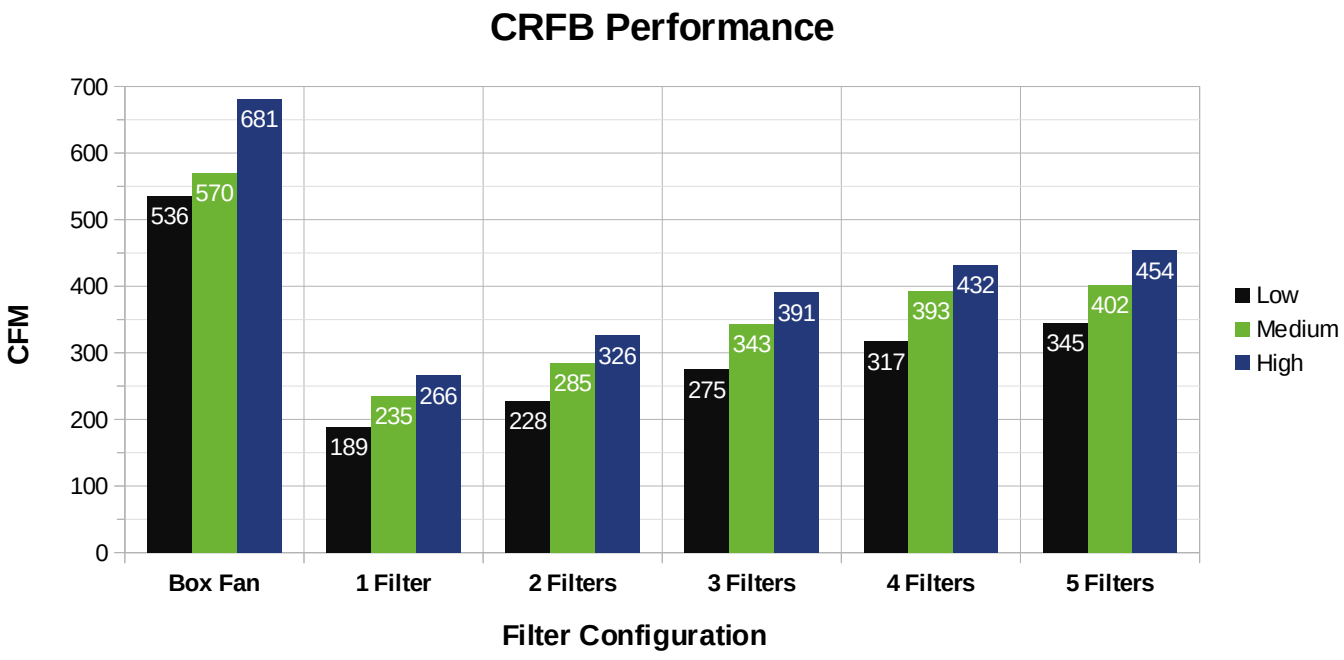


CRFB Dimensions (Inches)								
L	W	H	HoA	Foot Height	Foot to Foot	Filter to Filter	Box Fan Width (BFW)	Box Fan Length (BFL)
21.80	21.80	21.80	25.93	4.13	21.72	22.40	20.5	20.5

Airlab Testing

	MainStays 20” 3-Speed Box Fan Performance (CFM)		
Filter Count	**Low**	**Medium**	**High**
0 Filters*	536	570	681
1 Filter	189	235	266
2 Filters	228	285	326
3 Filters	275	343	391
4 Filters	317	393	432
5 Filters	345	402	454

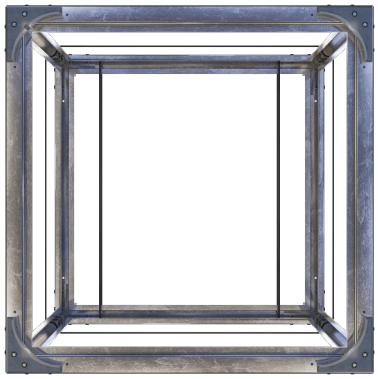
*Box fan running with no filters. Used to show how applying the filters affects the box fan’s performance.

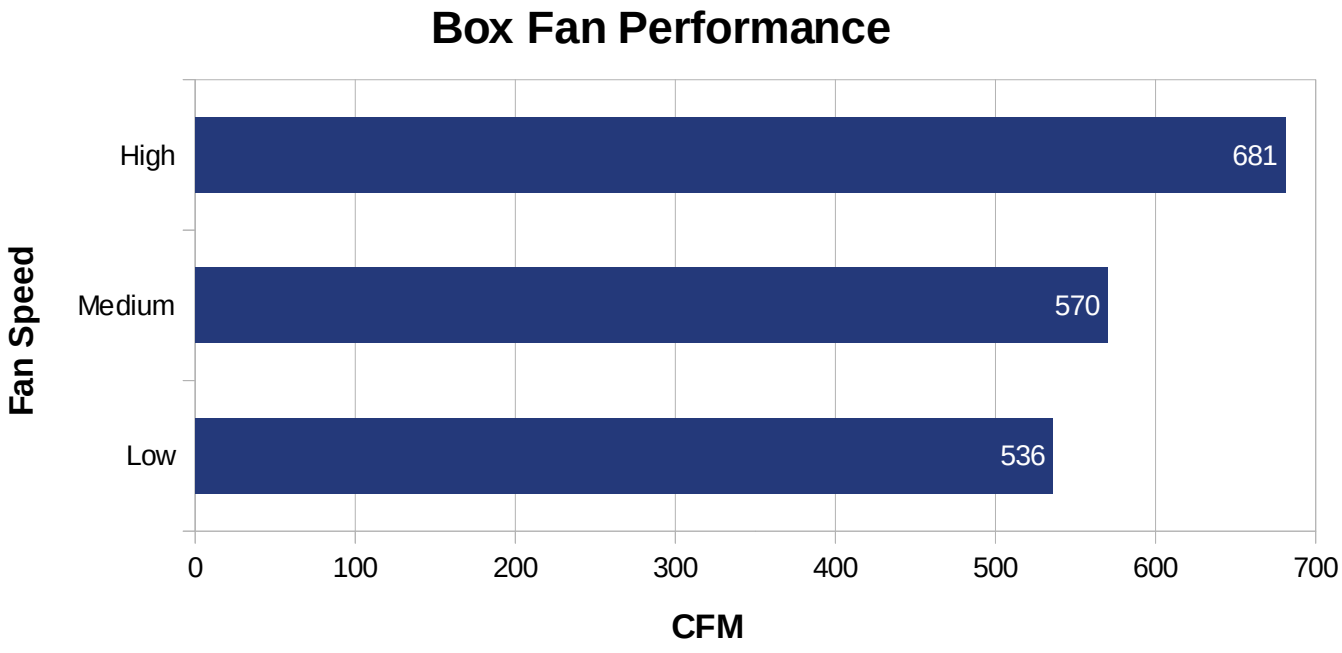


Electrical Cost			
	Low	Medium	High
Power Usage*	41.98 W ± 0.366 W	48.73 W ± 0.367 W	54.38 W ± 0.649 W
Weekly Operating Cost**	$1.16	$1.35	$1.50
	$/CFM per week		
Box Fan	$0.00216	$0.00236	$0.00221
1 Filter	$0.00614	$0.00573	$0.00565
2 Filters	$0.00509	$0.00472	$0.00461
3 Filters	$0.00422	$0.00392	$0.00384
4 Filters	$0.00366	$0.00343	$0.00348
5 Filters	$0.00336	$0.00335	$0.00331

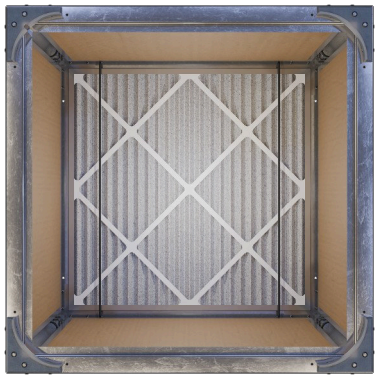
***** Filter configuration found to have little to no effect on the wattage

** Price based on running 24 hours a day for 7 days at 16.44 cents per kWh, the US average cost of electricity as of May 2025.





1 Filter Configuration



Performance			
	Low	**Medium**	**High**
CFM	189	235	266
Power Usage	42.5 W	49.4 W	55.6 W
Weekly Operating Cost*	$1.17	$1.36	$1.54

* Price based on running 24 hours a day for 7 days at 16.44 cents per kWh, the US average cost of electricity as of May 2025.

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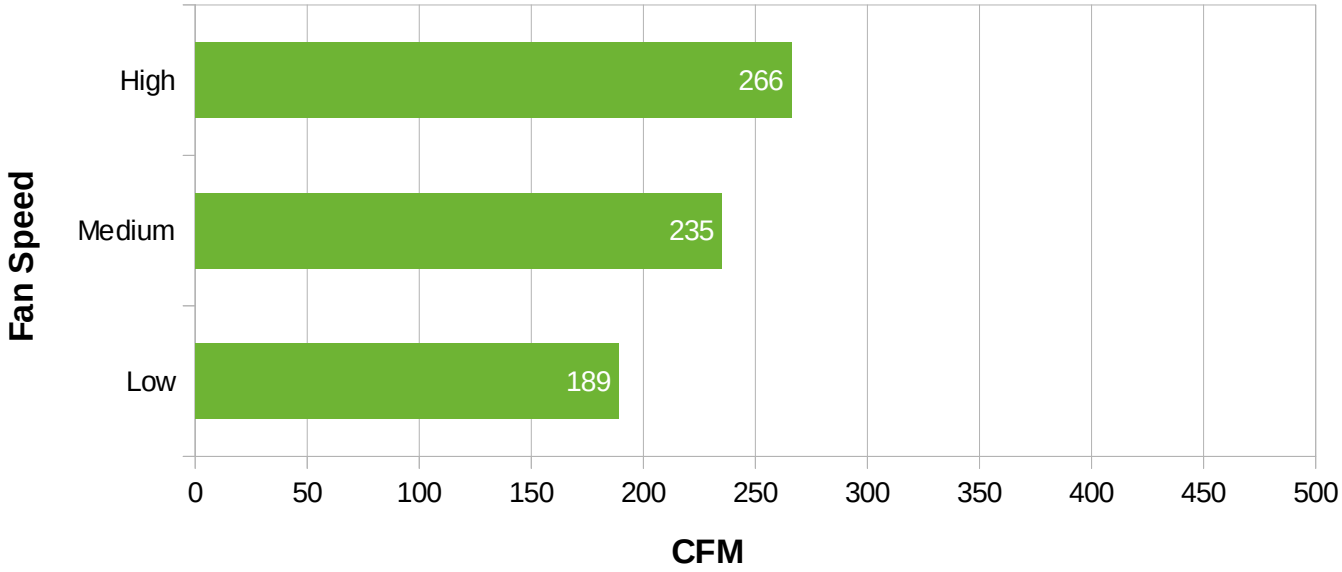
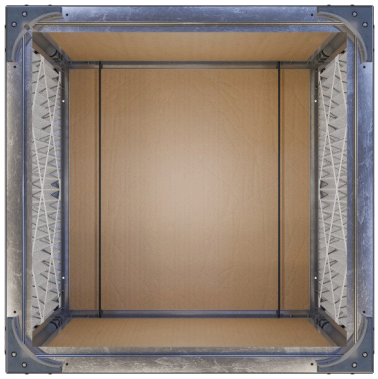


2 Filter Configuration



Performance			
	Low	**Medium**	**High**
CFM	228	285	326
Power Usage	41.8	48.8	54.4
Weekly Operating Cost*	$1.15	$1.35	$1.50

* Price based on running 24 hours a day for 7 days at 16.44 cents per kWh, the US average cost of electricity as of May 2025.

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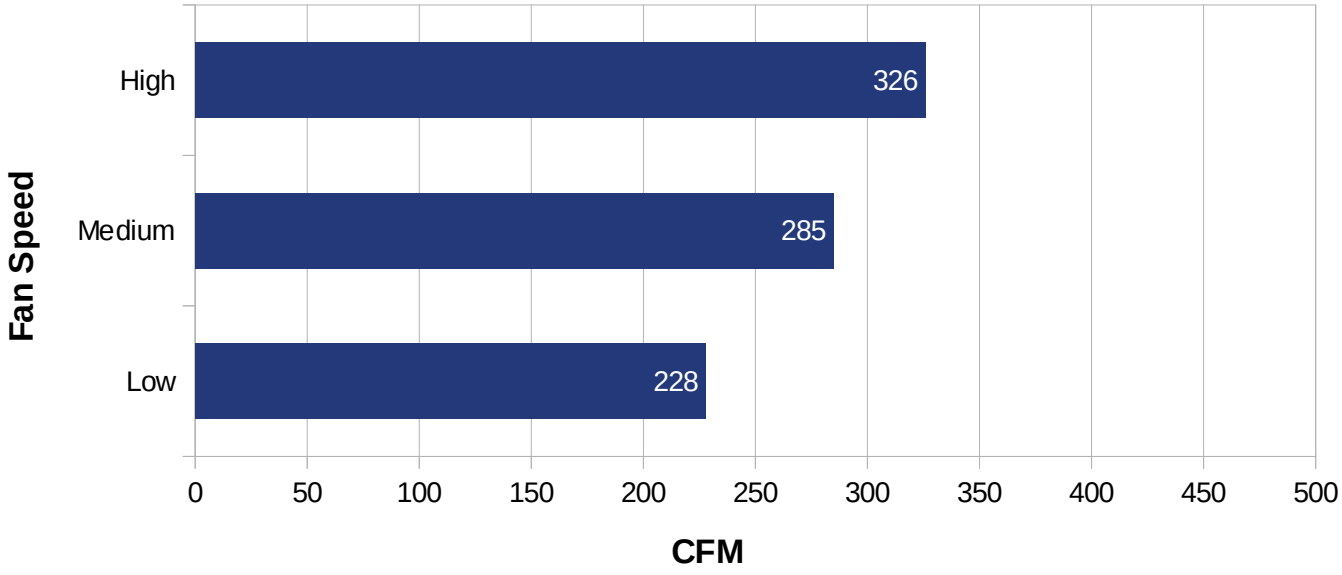
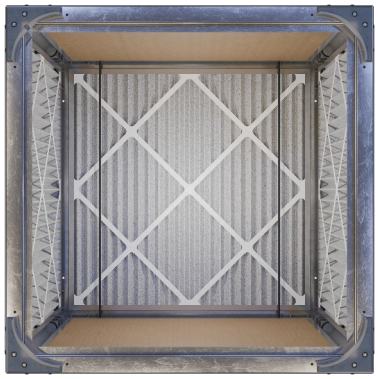


3 Filter Configuration



Performance			
	Low	**Medium**	**High**
CFM	275	343	391
Power Usage	41.8 W	48.6 W	54.3 W
Weekly Operating Cost*	$1.15	$1.34	$1.50

* Price based on running 24 hours a day for 7 days at 16.44 cents per kWh, the US average cost of electricity as of May 2025.

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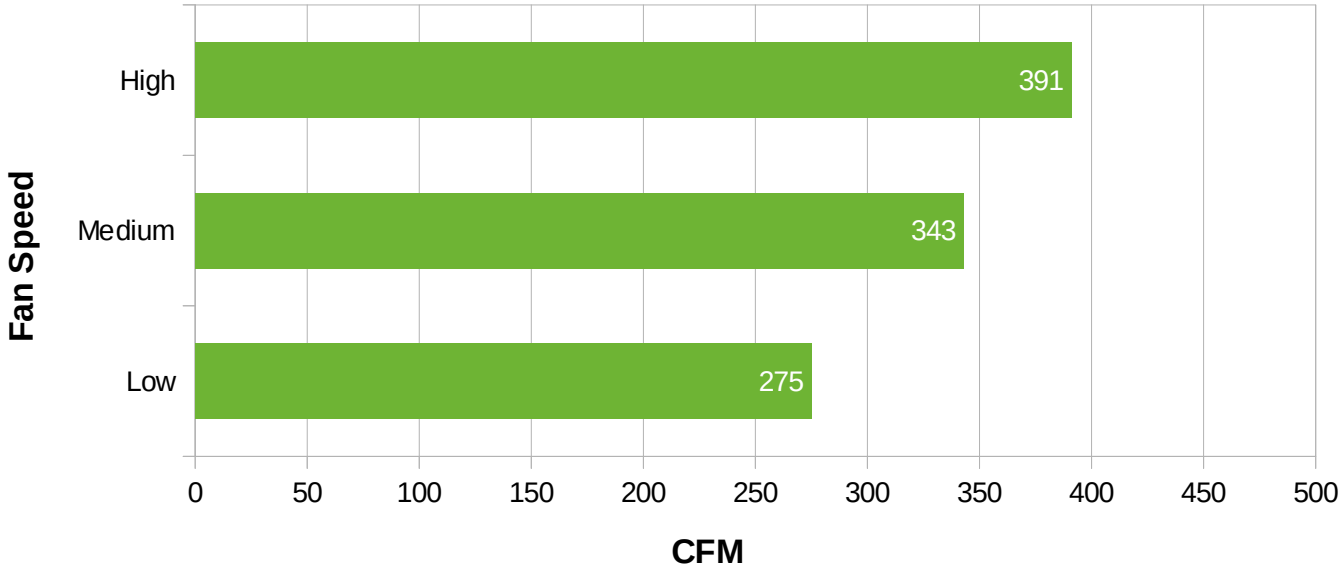
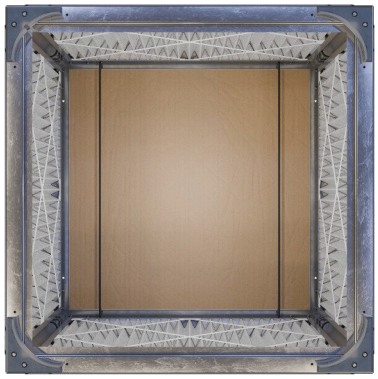


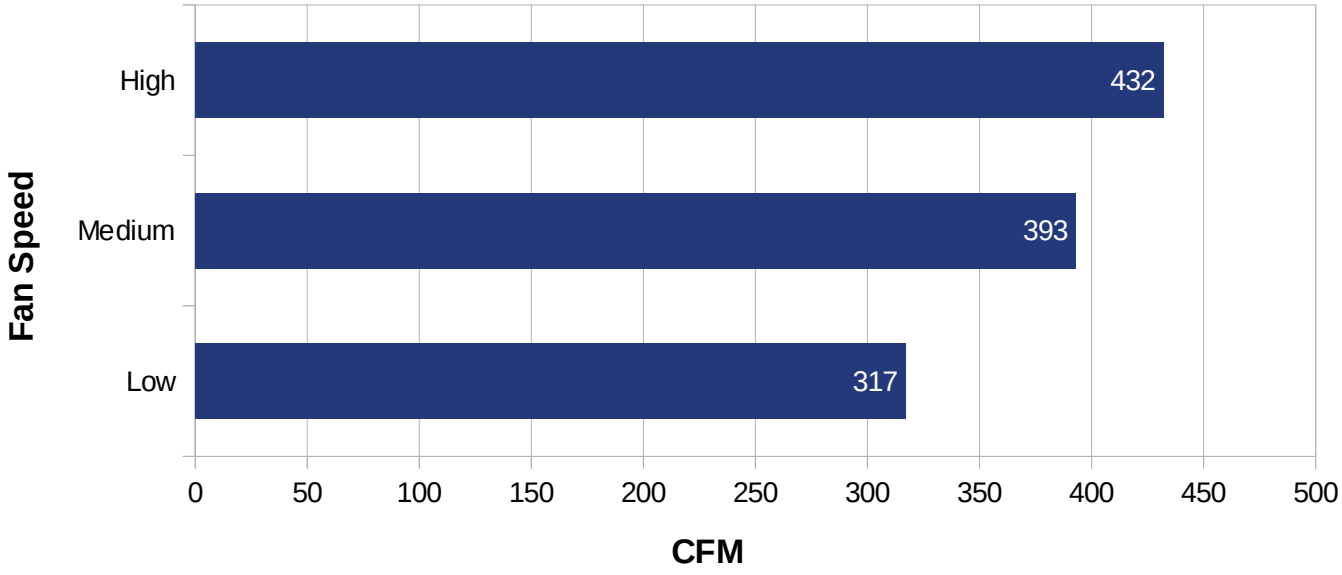
4 Filter Configuration



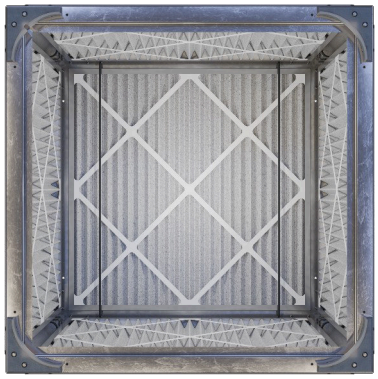
Performance			
	Low	**Medium**	**High**
CFM	189	235	266
Power Usage	42.3 W	48.6 W	54.3 W
Weekly Operating Cost*	$1.17	$1.35	$1.50

* Price based on running 24 hours a day for 7 days at 16.44 cents per kWh, the US average cost of electricity as of May 2025.

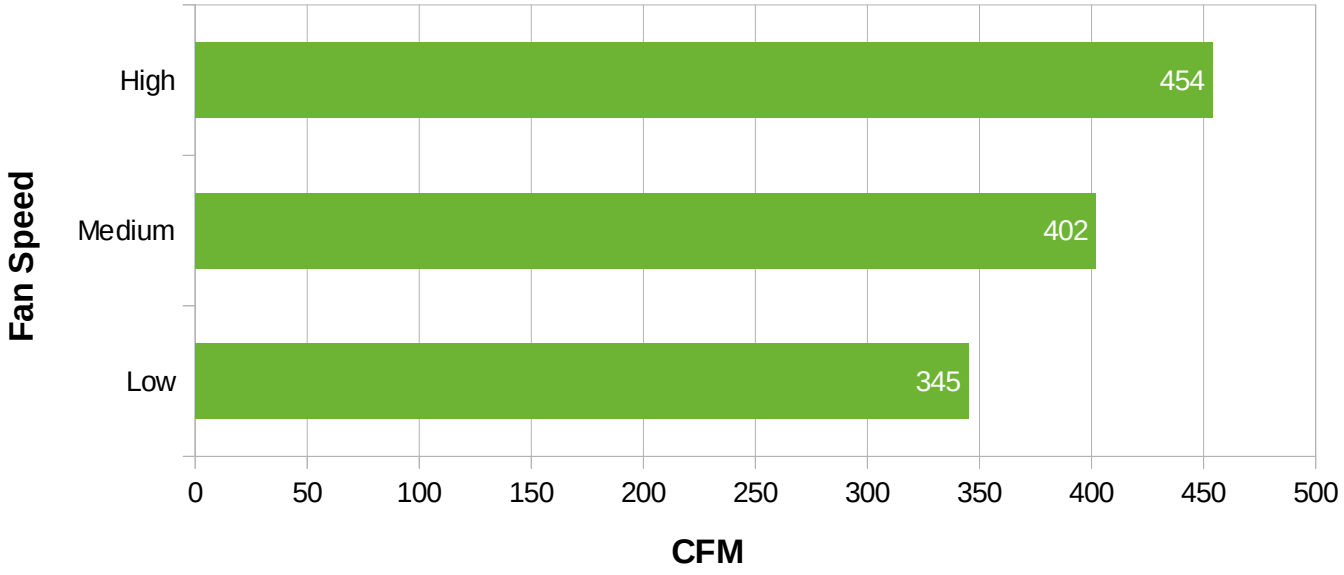
4 Filter Performance



5 Filter Configuration



Performance			
	Low	**Medium**	**High**
CFM	345	402	454
Power Usage	42 W	48.3 W	54 W
Weekly Operating Cost*	$1.16	$1.33	$1.49

* Price based on running 24 hours a day for 7 days at 16.44 cents per kWh, the US average cost of electricity as of May 2025.

5 Filter Performance