

Flex Duct CFM Chart

How much air each size of flex duct carries, with the same size in sheet metal beside it.

- Friction rate 0.1 in. w.g. per 100 ft. Each figure is the most air that size will pass without going over.
- Flexible duct FULLY EXTENDED, absolute roughness 0.003 ft (10x galvanized)
- Airflow is rounded DOWN, not to the nearest. This is a capacity limit; rounding up would put the run over it.
- Straight run only. A bend in flex costs far more than the same bend in hard pipe.
- Equal friction method, ASHRAE Fundamentals Ch. 34 (Darcy-Weisbach with the Haaland friction factor).

Size	Flex (CFM)	Sheet metal (CFM)	Velocity at flex max (fpm)
4"	31	37	355
5"	57	68	418
6"	93	111	474
7"	141	168	528
8"	202	241	579
9"	277	331	627
10"	367	439	673
12"	597	714	760
14"	900	1076	842
16"	1282	1534	918
18"	1751	2097	991
20"	2314	2773	1061