

Prescriptive Duct Sizing for Ventilation

Duct Type	Flex Duct				Smooth Metal Duct			
Fan Rating cfm @ 0.25 in.wc (62.5 Pa)	50 cfm	80 cfm	100 cfm	125 cfm	50 cfm	80 cfm	100 cfm	125 cfm
Diameter (in)	Maximum Length (ft)							
3"	X	X	X	X	5	X	X	X
4"	70	3	X	X	105	35	5	X
5"	NL	70	35	20	NL	135	85	55
6"	NL	NL	125	95	NL	NL	NL	145
7" and above	NL	NL	NL	NL	NL	NL	NL	NL

This table assumes no elbows. Deduct 15 ft of allowable duct length for each elbow.

NL = no limit on the duct length of this size

X = not allowed, any length of duct of this size with assumed turns and fittings will exceed the rated pressure drop.