

Exhaust Fan Prescriptive Duct Sizing

Any newly installed exhaust fan ducts must be sized according to these sizing specifications.

Smooth Hard Duct

Fan CFM Rating								
	50	80	100	125	150	200	250	300
Duct Diam.	Maximum Duct Length ^a							
3"	5'	X	X	X	X	X	X	X
4"	114'	31'	10'	X	X	X	X	X
5"	X	152'	91'	51'	28'	4'	X	X
6"	NL	NL	NL	168'	112'	53'	25'	9'
7"	NL	NL	NL	NL	NL	148'	88'	54'
8"	NL	NL	NL	NL	NL	NL	198'	133'

HVAC Flex Duct

Fan CFM Rating								
	50	80	100	125	150	200	250	300
Duct Diam.	Maximum Duct Length ^b							
3"	X	X	X	X	X	X	X	X
4"	56'	4'	X	X	X	X	X	X
5"	NL	81'	42'	16'	2'	X	X	X
6"	NL	NL	158'	91'	55'	18'	1'	X
7"	NL	NL	NL	NL	161'	78'	40'	19'
8"	NL	NL	NL	NL	NL	189'	111'	69'

a. Maximum duct lengths assume no elbows. Deduct 15 ft from maximum allowable duct length for each elbow.

b. Assumes proper installation of flex duct. Sharp bends, length compressions, and pinching will reduce air flow in flex duct.

NL = No Limit

X = Not Allowed