

EXHAUST GAS FLOW VELOCITY

CONVERT CFM to FPS

(CUBIC FEET / MIN)

(FEET PER SECOND)

Cubic Feet / Minute

Size	50	75	100	250	500	1000	1500	3000	5000	10000	15000	20000	25000
3"	16.97	25.46	33.95										
4"	9.54	14.32	19.09	47.74	95.63								
5"	6.12	9.16	12.22	30.55	61.11								
6"	4.24	6.36	8.48	21.22	42.44	84.88							
8"	2.38	3.58	4.77	11.93	23.87	47.74							
10"			3.05	7.63	15.27	30.55	45.83						
12"			2.12	5.30	10.61	21.22	31.83						
14"					7.79	15.59	23.38	46.77					
16"					5.96	11.93	17.9	35.81	59.68				
18"						9.43	14.84	28.29	47.15				
20"						7.63	11.45	22.91	38.19	76.39			
22"						6.31	9.74	18.94	31.57	63.14			
24"						5.30	7.95	15.92	26.53	53.05	79.57		
26"						4.52	6.78	13.56	22.60	45.20	67.80		
28"							5.84	11.69	19.48	38.97	58.46	77.95	
30"								10.18	16.97	33.95	50.92	67.90	
32"								8.95	14.92	29.84	44.76	59.68	74.60
34"								7.93	13.21	26.43	39.65	52.86	66.08
36"									11.80	23.57	35.36	47.15	58.94
38"									10.58	21.16	31.74	42.32	52.90
40"									9.54	19.10	28.64	38.19	47.75
42"									8.66	17.32	25.98	34.64	43.31
44"										15.75	23.67	31.56	39.46
46"										14.44	21.66	28.88	36.10
48"										13.26	19.89	26.52	33.15

CALCULATE FLOW VELOCITY TO DETERMINE FLOW LINER REQUIREMENTS FOR EXHAUST GAS



INTERNAL FLOW LINERS ARE REQUIRED IF THE FLOW VELOCITY IS GREATER THAN OR EQUAL TO:
6" AND UNDER: 4 FT / SEC / INCH OF DIAMETER 8" AND OVER: 25 FT / SECOND