



OUTLET CAPACITIES* – 10% RULE

The tables shown are for quick references and can be applied as a rule of thumb. For more accurate air flow rates verse duct length, see Bulletin 20-54.

*Based on 1.3 inches of water [0.32 kPa] plenum static pressure.

(10% reduction for every 5 ft over 10 ft.)

Table 1. English Units

Length, ft.	2-Inch Duct	2 ½-Inch Duct	Equivalent Full Outlet
	Air Flow, CFM	Air Flow, CFM	
10	35	45	1.00
11	34	44	0.98
12	34	43	0.96
13	33	42	0.94
14	32	41	0.92
15	32	41	0.90
16	31	40	0.88
17	30	39	0.86
18	29	38	0.84
19	29	37	0.82
20	28	36	0.80
21	27	35	0.78
22	27	34	0.76
23	26	33	0.74
24	25	32	0.72
25	25	32	0.70
26	24	31	0.68
27	23	30	0.66
28	22	29	0.64
29	22	28	0.62
30	21	27	0.60
31	20	26	0.58
32	20	25	0.56
33	19	24	0.54
34	18	23	0.52
35	18	23	0.50

Table 2. Metric Units

Length, m	51-mm duct	63.5-mm Duct	Equivalent Full Outlet
	Air Flow, L/s	Air Flow, L/s	
3.00	17	21	1.00
3.25	16	21	0.98
3.50	16	21	0.97
3.75	16	20	0.95
4.00	15	20	0.93
4.25	15	20	0.92
4.50	15	19	0.90
4.75	15	19	0.89
5.00	14	19	0.87
5.25	14	18	0.85
5.50	14	18	0.84
5.75	14	17	0.82
6.00	13	17	0.80
6.25	13	17	0.79
6.50	13	16	0.77
6.75	13	16	0.75
7.00	12	16	0.74
7.25	12	15	0.72
7.50	12	15	0.71
7.75	11	15	0.69
8.00	11	14	0.67
8.25	11	14	0.66
8.50	11	14	0.64
8.75	10	13	0.62
9.00	10	13	0.61
9.25	10	13	0.59
9.50	10	12	0.57
9.75	9	12	0.56
10.00	9	12	0.54
10.25	9	11	0.53
10.50	8	11	0.51

NOTE: The more supply tubing you use per outlet, the lower your airflow. Make sure to account for long supply tube runs when you design your systems.