

Field Supply Duct Sizing Chart

Round Duct Size Estimate				
Flexible Duct			Round Metal Pipe	
Duct Size	Design Airflow		Duct Sizing	Design Airflow
5"	50		5"	50
6"	75		6"	85
7"	110		7"	125
8"	160		8"	180
9"	225		9"	240
10"	300		10"	325
12"	480		12"	525
14"	700		14"	750
16"	1000	16"	1200	
18"	1300	18"	1500	
20"	1700	20"	2000	

Flexible duct on most metal duct calculator .05" Round metal pipe on most metal duct calculators .05"

Rectangular Duct Size Estimate									
Duct Height - Net Inside Dimension in Inches									
4"	CFM	6"	CFM	8"	CFM	10"	CFM	12"	CFM
6 x 4	55	4 x 6	55	4 x 8	80	4 x 10	100	4 x 12	125
8 x 4	75	6 x 6	95	6 x 8	140	6 x 10	180	6 x 12	215
10 x 4	100	8 x 6	140	8 x 8	200	8 x 10	280	8 x 12	340
12 x 4	125	10 x 6	180	10 x 8	280	10 x 10	390	10 x 12	475
14 x 4	150	12 x 6	210	12 x 8	340	12 x 10	475	12 x 12	550
16 x 4	175	14 x 6	280	14 x 8	400	14 x 10	550	14 x 12	650
18 x 4	210	16 x 6	315	16 x 8	500	16 x 10	700	16 x 12	775
20 x 4	225	18 x 6	385	18 x 8	575	18 x 10	800	18 x 12	900
22 x 4	280	20 x 6	425	20 x 8	650	20 x 10	900	20 x 12	1050
24 x 4	300	22 x 6	450	22 x 8	715	22 x 10	1000	22 x 12	1150
		24 x 6	500	24 x 8	800	24 x 10	1100	24 x 12	1250
		26 x 6	550	26 x 8	875	26 x 10	1200	26 x 12	1400
		28 x 6	600	28 x 8	950	28 x 10	1300	28 x 12	1550
		30 x 6	650	30 x 8	1100	30 x 10	1400	30 x 12	1700
21/2 x 10	50			32 x 8	1200	32 x 10	1550	32 x 12	1800
21/2 x 14	75			34 x 8	1400	34 x 10	1700	34 x 12	1900
21/2 x 30	200			36 x 8	1600	36 x 10	1800	36 x 12	2100
		31/2 x 14	150			38 x 10	1900	38 x 12	2150
		31/2 x 30	320			40 x 10	2000	40 x 12	2200
								42 x 12	2300

Rectangular sheet metal duct .05" on most metal duct calculators.

Instructions for Use

- Step One - Identify the volume of air that will be passing through the duct.
- Step Two - Select the duct size from the table that can carry the volume of air.
- Step Three - If desired airflow exceeds the CFM rating, increase to the next duct size.
- Step Four - Listed CFM is based on typical field results and may vary, install dampers.
- Step Five - If duct run exceeds 25', or has excessive transitions, increase to the next size.
- Step Six - Design alone is inadequate, always prove design by test and balance.