

## Downdraft Table Plans

<http://www.toolcrib.com/blog/2009/04/10-downdraft-table-plans-and-build-notes-for-wood-shops>

Downdraft Table CFM Requirements							9/7/2005
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The following table shows how much CFM is needed for good fine dust collection for various square shaped downdraft tables. It assumes only 7" of resistance and that you table is made with side boards that extend							
Table Size in Inches	Coverage Area	Square Inches	Square Feet	Required CFM	Minimum Impeller Size	Minimum Required Horsepower	
12	30	900	6.25	313	12.00	2.0	
18	36	1296	9.00	450	12.00	2.0	
24	42	1764	12.25	613	13.00	3.0	
30	48	2304	16.00	800	13.50	3.0	
36	54	2916	20.25	1013	14.00	5.0	
42	60	3600	25.00	1250	14.50	7.5	
48	66	4356	30.25	1513	14.75	7.5	
54	72	5184	36.00	1800	15.00	7.5	
60	78	6084	42.25	2113	15.50	7.5	
66	84	7056	49.00	2450	16.00	10.0	
For example, a 2' square table needs that 50 FPM airspeed across an area that is 24" + 9" + 9" = 42" = 3.5' square. Calculating the minimum CFM is then easy because CFM = FPM*Area in square feet, so in this case CFM = 50*3.5*3.5 = 613 CFM minimum.							