

Mechanical Ventilation Check List Sizing Tables.

These tables are provided for convenience only. Any conflict between these tables and the BC Building Code, the provisions in the building code shall govern.

Table 9.32.3.5.										
Principal Ventilation System Exhaust Fan Minimum Air-Flow Rate										
Floor Area, ft²	Number of Bedrooms									
	0-1		2-3		4-5		6-7		>7	
	cfm	l/s	cfm	l/s	cfm	l/s	cfm	l/s	cfm	l/s
<1500	30	14	45	21	60	28	75	35	80	42
1500-3000	45	21	60	28	75	35	80	42	100	49
3001-4500	60	28	75	35	80	42	100	49	120	56
4501-6000	75	35	80	42	100	49	120	56	135	64
6001-7500	80	42	100	49	120	56	135	64	150	71
>7500	100	49	120	56	135	64	150	71	160	78

Table 9.32.3.6.				
Kitchen/Bathroom Exhaust Fan Minimum Air Flow Rate				
Room	Intermittent		Continuous	
	cfm	l/s	cfm	l/s
Kitchen	100	47	N/A	N/A
Bathroom	50	23	20	9.44

Note: Minimum Required Rates at 0.2 inches water column external static pressure (ESP)

Table 9.32.3.8.(3)						
Maximum Equivalent Duct Length, ft						
Rigid Duct						
Diameter inches	Fan Capacity cfm					
	50 cfm	85 cfm	100 cfm	125 cfm	150 cfm	175 cfm
4	105	50	—	—	—	—
5	150	130	98	59	43	—
6	150	150	150	138	112	79
7	150	150	150	150	150	150
Flexible Duct						
Diameter inches	Fan Capacity cfm					
	50 cfm	85 cfm	100 cfm	125 cfm	150 cfm	175 cfm
5	105	50	—	—	—	—
6	150	130	98	59	43	—
7	150	150	150	138	112	79
8	150	150	150	150	150	150

Note:

The equivalent length of a duct is the length of the duct plus 30ft for the exterior hood and 10ft for each 90° elbow. Exhaust duct for range hoods or range top fans must be noncombustible per 9.32.3.8.(6)