

## 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.

<b>Table 9.32.3.5.</b>										
<b>Principal Ventilation System Exhaust Fan Minimum Air-Flow Rate</b>										
<b>Floor Area, m<sup>2</sup></b>	<b>Number of Bedrooms</b>									
	<b>0-1</b>		<b>2-3</b>		<b>4-5</b>		<b>6-7</b>		<b>&gt;7</b>	
	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>
<140	30	14	45	21	60	28	75	35	80	42
140-280	45	21	60	28	75	35	80	42	100	49
281-420	60	28	75	35	80	42	100	49	120	56
421-560	75	35	80	42	100	49	120	56	135	64
561-700	80	42	100	49	120	56	135	64	150	71
>700	100	49	120	56	135	64	150	71	160	78

<b>Table 9.32.3.6.</b>				
<b>Kitchen/Bathroom Exhaust Fan Minimum Air Flow Rate</b>				
<b>Room</b>	<b>Intermittent</b>		<b>Continuous</b>	
	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>
Kitchen	100	47	N/A	N/A
Bathroom	50	23	18	9

<b>Table 9.32.3.8.(3)</b>												
<b>Maximum Equivalent Duct Length, m</b>												
<b>Flexible Duct</b>												
<b>Equivalent Diameter, mm (cross Section Area for Rectangular Ducts, cm<sup>2</sup>)</b>	<b>Fan Capacity</b>											
	25		40		50		60		70		80	
	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>
125 (123)	68	32	30	15	—	—	—	—	—	—	—	—
150 (177)	100	46	80	40	60	28	40	18	28	13	—	—
175 (240)	100	46	100	46	100	46	100	46	100	46	50	24
200 (314)	100	46	100	46	100	46	100	46	100	46	100	46
<b>Rigid Duct</b>												
<b>Equivalent Diameter, mm (cross Section Area for Rectangular Ducts, cm<sup>2</sup>)</b>	<b>Fan Capacity</b>											
	25		40		50		60		70		80	
	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>	<b>cfm</b>	<b>l/s</b>
100 (79)	68	32	30	15	—	—	—	—	—	—	—	—
125 (123)	100	46	80	40	60	28	40	18	28	13	—	—
150 (177)	100	46	100	46	100	46	100	46	100	46	50	24
175 (240)	100	46	100	46	100	46	100	46	100	46	100	46

**Notes to Table 9.32.3.8.(3)**

The equivalent length of a duct is the length of the duct plus 10m for the exterior hood and 3m for each 90° elbow