

Design to conform to NBC 2015 Section 9.32		LOCATION (Address):																									
Builder Name:		Ventilation Contractor:																									
Address:		Address:																									
Normal Operating Exhaust Capacity (NOEC) of Principal Ventilation Fan <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Number of Bedrooms</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr><td>1</td><td>16</td><td>24</td></tr> <tr><td>2</td><td>18</td><td>28</td></tr> <tr><td>3</td><td>22</td><td>32</td></tr> <tr><td>4</td><td>26</td><td>38</td></tr> <tr><td>5</td><td>30</td><td>45</td></tr> <tr><td>6</td><td>34</td><td>45</td></tr> <tr><td>7</td><td>38</td><td>45</td></tr> </tbody> </table>		Number of Bedrooms	Minimum	Maximum	1	16	24	2	18	28	3	22	32	4	26	38	5	30	45	6	34	45	7	38	45	Actual Number of Bedrooms _____ Note: It is recommended that the NOEC falls within range of current and future bedrooms. If more than 5 bedrooms, a kitchen supplemental exhaust fan > 50 l/s will be required. If there are more than 7 bedrooms, this form cannot be used and the ventilation system must be designed to CAN/CSA F326-M.	
Number of Bedrooms	Minimum	Maximum																									
1	16	24																									
2	18	28																									
3	22	32																									
4	26	38																									
5	30	45																									
6	34	45																									
7	38	45																									
Minimum Capacity Permitted _____ L/s	01	Maximum Capacity Permitted _____ L/s	02																								
Actual Normal Operating Exhaust Capacity (NOEC) of Principal Exhaust Fan (see page 2)																											
Actual NOEC _____ L/s			03																								
Confirm that Line 03 ≥ Line 01 and ≤ Line 02 Y <input type="checkbox"/> N <input type="checkbox"/>			04																								
Two Speed Principal Exhaust Fan																											
Maximum Operating Exhaust Capacity = _____ L/s			05																								
High speed of 2 speed fan (2.5 x Line 01) = _____ L/s			06																								
Line 05 - Line 06 = _____ L/s			07																								
Outdoor Air Supply																											
Excluding solid fuel burning appliances, are there any fuel fired space or water heating units that are not direct vented or mechanically vented? Y <input type="checkbox"/> N <input type="checkbox"/>			08																								
If line 08 is yes, unless a spillage test is performed as per Sentence 9.32.3.8.(7), make-up air is required for any mechanical air exhausting device, excluding the principal ventilation fan operating at its NOEC. The make-up air shall be delivered to the dwelling unit at a rate equal to or not more than 10% greater than the exhaust capacity of the device.																											
System Design (check one)																											
<input type="checkbox"/> S3 HRV - Supply to a forced air furnace return, exhaust inlets from rooms																											
<input type="checkbox"/> S4 HRV - Supply and exhaust ducts to forced air furnace return																											
<input type="checkbox"/> S5 Exhaust and supply fans to and from rooms																											
<input type="checkbox"/> S6 HRV not coupled to a forced air furnace																											
Kitchen Supplementary Exhaust Fan																											
Kitchen supplementary exhaust fan capacity = _____ L/s Minimum capacity for separate exhaust fan for kitchen = 50 L/s except where the principal exhaust fan draws from the kitchen only, or where it draws from the kitchen and other rooms and Line 07 ≥ 0.																											
Bathroom Supplementary Exhaust Fan																											
Bathroom supplementary exhaust fan capacity = _____ L/s Bathroom minimum exhaust fan capacity = 25 L/s per room. If not vented by the principal exhaust system, a supplementary exhaust fan is required.																											
Controls (see the NBC for other requirements)																											
A switch marked VENTILATION FAN is required in the living area. If more than one fan is used for the principal exhaust system they must be interconnected and all controlled by the switch noted above. The principal exhaust fan must be interconnected with the furnace fan for S3 and S4 designs. If the kitchen exhaust is provided only by the principal exhaust fan, a switch must be located in the kitchen to activate the high exhaust rate of the principal exhaust fan. The switch is to be labelled "Kitchen Exhaust" as per Clause 9.32.3.7(3)(b).																											

Principal Exhaust Fan(s)				
Fan #	Sone	Location of Inlet	Normal Operating Exhaust Capacity (NOEC) (L/s)	Maximum Operating Exhaust Capacity (MOEC)(L/s)
NOEC				MOEC with 2 speed fans used
Outdoor Air Supply (OAS) For Principal Exhaust Fan(s)				
Confirm OAS = NOEC				Y <input type="checkbox"/> N <input type="checkbox"/>

All ducts (supply, exhaust, and make-up air) shall be sized according to Article 9.32.3.11 and Table 9.32.3.11.A.

Grease filters are required on all range hoods, range top fans, and all exhaust intakes located within 3m horizontally of a range.

Principal ventilation fans are required to have a maximum sone rating of 2.0.

If more than one fan is used to provide the required normal operating exhaust capacity, the switch(es) shall be interconnected to control all fans as per Sentence 9.32.3.3.(3).

Supplemental & Mechanical Exhaust Fan(s)			
Fan #	Sone	Location of Inlet	Capacity (L/s)

Outdoor intake and exhaust openings shall comply with Article 9.32.3.13.

Make-up air is required where there is one or more fuel burning appliances not direct vented or mechanically vented types (exception may apply if a successful spillage test is conducted).

Supply & Outdoor Make-Up Air Fans(s) including HRV Fans				
Fan #	Sone	Room Receiving Outdoor Air	Capacity (L/s)	Pre-heat Outdoor Air (Y/N)

Unless fresh air is distributed by the forced air furnace to every room, fresh air must be delivered to every bedroom.

The make-up air fan must be approved by the manufacturer for the supply of the untempered outdoor and continuous operation.

DECLARATION	
I declare that this system has been designed in accordance with requirements of the 2015 National Building Code of Canada Subsection 9.32	
Name:	Telephone:
Company:	Telephone:
Address:	Signature: