## Residential Mechanical Ventilation and Heating/Cooling Design Summary (HVAC)

## PLEASE PRINT LEGIBLY (all information must be completed)

LOCATION OF INSTALLATION			
Lot #:	Plan #	<i>‡</i> :	
Munic.Address:			
Multiple Units:	LHS / RHS	Upper / Lower	
Permit #:	Other	:	

Name:	
Address:	
Phone:	Certificaton #

INSTALLING CONTRACTOR
Name:
Address:
Phone:

COMBUSTION APPLIANCES		
	a) Direct Vent (sealed Combustion) only	
	b) Positive venting induced draft (excluding fireplace)	
	c) Natural draft, B vent or induced draft fireplace	
	d) Solid Fuel (including fireplace)	
	e) No combustion appliances	

HEATING SYSTEM		
	Forced Air	
	Non-Forced Air	
	Electric Space Heating	

HEATING FUEL TYPE		
	Gas	
	Oil	
	Propane	
	Electric	

HOUSE TYPE		
	I Type (a) or (b) appliance only, no solid fuel	
	II Type I with solid fuel (including fireplace)	
	III Any Type (c) appliance	
	IV Type for electric space heat	
	Other: Type I, II, or IV with no forced air	

SYSTEM DESIGN OPTION			
	Exhaust Only/Forced Air (complete 1-5,7,8)		
	HRV with Exhaust ducts/Forced Air (complete 1,6-8)		
	HRV simplified connection to Forced Air (complete 1,6-8)		
	HRV full duct/not connected to Forced air (complete 1,6-8)		
	Part 6 Design - More than 5 bedrooms		

	API	RIL 2010
1) TOTAL VENTILATION CAPACITY	Div. B	9.32.3.3.(1)
Bsmt & Mstr Bedroom	x 21.2 =	cfm
Other Bedrooms	x 10.6 =	cfm
Bathrooms & Kitchen	x 10.6 =	cfm
Other Rooms	x 10.6 =	cfm
	Total =	cfm

2) PRINCIPAL VENTILATION		<b>Y</b> Di	v. B 9.32.3.4.(1)	
1 Bedroom		31.8 cfm		
2 Bedroom		47.7 cfm		
3 Bedroom		63.6 cfm		
4 Bedroom		79.5 cfm		
5 Bedroom		95.4 cfm		
***More than 5 Bedrooms		Pt.6 dsgn		
3)SUPPLEMENTAL VENTIL	ATION CAF	PACITY	Div. B 9.32.3.5.	
Total Ventilation Capacity	(box 1)	cfm		
Less Principal Ventilation Capacity	(box 2)	cfm		
Supplemental Ventilation Capacity		cfm		
Range Hood Vented to Exterior?		Yes	No	

4) PRINCIPAL EXHAUST FAN CAPACITY Div. B 9.32.3.4.B					
Make/Model:		Location			
cfm	sones	HVI			
Principal Exh	Principal Exhaust Duct Size(Check Applicable Bedrms & Duct)				
# Bedrooms	Smooth Duct	Flexible Duct			
1	4"	5"			
2	5"	6"			
3	5"	6"			
4 & 5	6"	7"			
Over 5	Part 6 Design	Part 6 Design			

5) SUPPLEMENTAL FANS			Div. B 9.32.3.5	
Location	cfm	Make	Model	Sones

## Supplementary Exhaust Duct Size

Fan Capacity (cfm)	Min. Exhaust Duct Diameter	
(Circle Applicable cfm & Duct)	Smooth	Flex
53	5"	6"
106	6"	7"

I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code and good engineering practice. The undersigned has reviewed and takes responsibility for this design, and has the qualifications and meets the requirements set out in the Ontario Building Code to be a designer. Name Phone: BCIN#	cfm low
practice. The undersigned has reviewed and takes responsibility for         this design, and has the qualifications and meets the requirements set         out in the Ontario Building Code to be a designer.         Name         Phone:         BCIN#	
this design, and has the qualifications and meets the requirements set out in the Ontario Building Code to be a designer. Name Phone: BCIN# Total Desig	
out in the Ontario Building Code to be a designer.          Name	
Name Phone: BCIN# Name Name Name Name Name Name Name Name	HVI
Name Phone: BCIN# Name T) HEATING APPLIANCE Make/Model: Heating Output Total Design	HVI
Phone:   BCIN#   Total Design  Total Design  Total Design  Total Design  Total Design  Total Design  Phone:   Phone:   Phone:   Phone:	
Phone: Make/Model: Total Desig	
BCIN# Total Desig	
BTUH Heat Loss	
	BTUH
HRAI Ventilation Certification #	
8) COOLING APPLIANCE	
HRAI Heat Loss/Gain Certification # Make/Model:	
	Tons
HRAI Duct Design Certification # Cooling Output Total Design	า
BTUH Cooling Loa	ld BTUH
Signature: Date:	

## **GENERAL NOTES:**

- 1) The principal exhaust fan shall be controlled by a manual switch centrally located in the dwelling unit and be identified with the words VENTILATION FAN.
- 2) The forced air heating system circulation fan shall be controlled by a manual switch located adjacent to the ventilation fan switch and shall be identified by the words CIRCULATION FAN.
- 3) Provide a rough-in for an exhaust fan when a rough-in for a bathroom is provided within the basement.