

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

for design and performance of residential ventilation systems to OBC 2024 - 9.32

1. Location	Municipality: _____
	Civic Address: _____
2. Builder	Name: _____
	Address: _____
	City: _____ Postal Code: _____
	Ph: _____ Fax: _____
3. Designer	Name: _____
	Address: _____
	City: _____ Postal Code: _____
	Ph: _____ Fax: _____
	HRAI #: _____
	E-mail: _____

4. Combustion Appliances	
a) Direct Vent	b) Induced Draft
c) Natural Draft	d) Solid Fuel Appliances
e) No Combustion Appliances	CO Alarm Required

5. Heating System		
Forced Air	Non-Forced Air	
Gas	Propane	Other
Oil	Electricity	

6. Distribution System		
Furnace	Inline fan	HRV/ERV

7. Principal Ventilation System Design Option
Exhaust only forced air distribution system (Circ. fan at least 5 times the capacity of the principal exhaust)
Balanced no heat recovery
HRV/ERV with extended exhaust
HRV/ERV with simplified exhaust
HRV/ERV with full ducting/not coupled to forced air
HRV/ERV with no supplemental fans (High speed must be at least 2.5 times the principal exhaust)
Supplemental fans

8. Principal Ventilation Capacity (PVC)
of Bedrooms: _____ Required Exh Airflow: _____ CFM
Supply Air Required: Yes No
Mixed Air Temperature Calculation Required: Yes No
For a System coupled with a Forced Air Furnace:
Furnace Blower Rate: _____ CFM
Max Allowable Outdoor Airflow as per NBC 9.32.3.4.(2): _____ CFM

9. Principal Ventilation Fan		
HRV/ERV	Central Inline Fan	Bathroom Fan
Location: _____		
Manufacturer: _____		
Model: _____		HVI Rated
Design Airflow: Low: _____ CFM	High: _____ CFM	
Sones: _____	ESP: _____	" w.c.
_____ % Sensible Efficiency @ 0 °C @ _____ CFM		
_____ % Sensible Efficiency @ -25 °C @ _____ CFM		
(If HRV/ERV is used, the system must also comply with SB-12)		

10. Other Ventilation Fans	
Location: _____ Sones: _____	
Manufacturer: _____	
Model: _____ HVI Rated	
Design Airflow: _____ CFM	ESP: _____ "w.c.
Supplemental Fan	Supply Fan for Principal Exhaust
Circulation Fan	Make-up Air Fan for _____

Location: _____ Sones: _____	
Manufacturer: _____	
Model: _____ HVI Rated	
Design Airflow: _____ CFM	ESP: _____ "w.c.
Supplemental Fan	Supply Fan for Principal Exhaust
Circulation Fan	Make-up Air Fan for _____

Location: _____ Sones: _____	
Manufacturer: _____	
Model: _____ HVI Rated	
Design Airflow: _____ CFM	ESP: _____ "w.c.
Supplemental Fan	Supply Fan for Principal Exhaust
Circulation Fan	Make-up Air Fan for _____

Location: _____ Sones: _____	
Manufacturer: _____	
Model: _____ HVI Rated	
Design Airflow: _____ CFM	ESP: _____ "w.c.
Supplemental Fan	Supply Fan for Principal Exhaust
Circulation Fan	Make-up Air Fan for _____

11. Designer Consent
I _____ certify this ventilation system is designed to be in accordance with OBC-2024 9.32
Date: _____ Signature: _____

Conversion note: 1 L/s = 2 CFM (For hard conversion, use 1 L/s = 2.118 CFM)

Note: Secondary suite ventilation system requires a separate design

