

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

for design and performance of residential ventilation systems to BCBC 2018 - 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

Non-NAFFVA
Direct vent
Power vent
Thermal buoyancy chimney in an air barriered room
Mobile home woodstove
No combustion appliances

NAFFVA
Thermal buoyancy chimney within the dwelling unit

CO Alarm Required

If NAFFVA has been checked:
Make-up air required for any exhaust appliance greater than:
0.5 ACH × House Volume _____ ft³ ÷ 60 = _____ CFM

***Provide a delivered make-up air temperature calculation for all make-up air systems.**

5. Heating System

	Forced Air	Non-Forced Air
Gas	Propane	Other
Oil	Electricity	

6. Principal Ventilation System Design Option

Forced air with outside air supply without HRV/ERV
HRV/ERV coupled to forced air
HRV/ERV w/ dedicated ducting, not coupled to forced air
Ducted recirculation with outside air supply

Passive vent principal ventilation system
limited to one story house with less than 1,800 ft²
floor area, with -20°C and above design temperature
and does not have ducted forced-air system

7. Heated Crawlspace Ventilation

Heated by forced air system with return
Heated by forced air system (no return) with one transfer grille
Principal ventilation system with one transfer grille
Two transfer grilles
Exhaust to outside (min. 46 CFM) and one transfer grille

8. Principal Ventilation Fan Capacity (PVC)

From BCBC Table 9.32.3.5:
of Bedrooms: _____ Floor Area: _____ sq. ft
Required Airflow: _____ CFM

9. Principal Exhaust Fan

HRV/ERV	Central Inline Fan	Bathroom Fan
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Location: _____
Manufacturer: _____
Model: _____ HVI Rated
Rated Airflow: Low: _____ CFM High: _____ CFM
Sones: _____ ESP: _____ "w.c.
_____ % Sensible Efficiency @ 0 °C @ _____ CFM
_____ % Sensible Efficiency @ -25 °C @ _____ CFM

10. Other Ventilation Fans

Location: _____ Sones: _____
Manufacturer: _____
Model: _____ HVI Rated
Design Airflow: _____ CFM ESP: _____ "w.c.

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

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

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

Supplemental Fan Circulation Fan	Intermittent Make-up Air Fan for _____	Continuous
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11. Designer Consent

I _____ certify this ventilation system is designed to be in accordance with BCBC-2018 9.32

Date: _____ Signature: _____

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

