

2 Ventilation Checklist 2: HRV|ERV Systems SENTENCE 9.32.3.4(3) & (4)

Use this Checklist when a **centrally ducted HRV or ERV** (heat or energy recovery ventilator) is used alone or in with a forced air heating system to meet principal ventilation system requirements.

Civic Address: _____		Permit No. _____	
Climate Zone: _____	Number of bedrooms	(A)	A bedroom is a room with an openable window (minimum dimensions apply), a closet and a closing interior door.
	Total floor area of living space	ft ² (B)	
	Total interior Volume of dwelling	ft ³	Total volume includes all heated interior spaces (including crawlspace if heated).
0.5 ACH (air changes/hr) = Volume x 0.5 ÷ 60 =		cfm (C)	Exhaust appliances exceeding .5 ACH may require make-up air.

1. Principal ventilation system exhaust fan minimum airflow rate

Use bedroom count from box (A) & total square footage from box (B), & Table 9.32.3.5. to determine:

Minimum required principal exhaust system capacity:

 cfm (D)

2. HRV / ERV selection:

HRV or ERV: Make: _____

Model: _____

Location: _____

Capacity @ 0.4 ESP: _____

 cfm (E)

Must be ≥ box (D)

3. Exhaust grille locations: 1 minimum @ 6 ft. or higher from floor of uppermost level

4. HRV/ERV fresh air distribution (Select one)

a) Supply air from HRV/ERV is directly connected to the return air of a forced air heating system

FA system fan and HRV are wired/programmed for continuous operation, and

FA supply is ducted to every bedroom and each floor level without a bedroom

b) Supply air from HRV is dedicated ductwork

Ducted to each bedroom and each floor level without a bedroom, and

HRV is wired/programmed for continuous operation

5. If heated crawlspace present, (choose one)

Minimum of one RA grille located in crawlspace

No RA grille in crawlspace: Crawlspace ventilation option 1,2, or 3 per BCBC 9.32.3.7(2)

6. Make-Up Air Requirements: Naturally Aspirated Fuel Fired Vented Appliance (NAFFVA) present? (9.32.4.1)

No, Omit Step 7

Yes, Proceed to Step 7

7. Exhaust appliance present which exceeds Box C 0.5 ACH:

No

Yes, Complete "Large Exhaust Make-up Air Checklist"

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8. Required kitchen and bathroom exhaust fans:

Re-list below if Principal exhaust fan meets all or part of kitchen/bathroom exhaust requirements

ROOM	REQ. EXHAUST RATE ¹	EXHAUST EQUIPMENT						Principal System CFM
		FAN MAKE & MODEL	CFM @ 0.2 ESP	Duct Sizing ²				
				Duct Dia (in Ø)		Max. Equiv. Length	Installed Equiv. Length	
rigid	flex							
¹ See table 9.32.3.6 ² See table 9.32.3.8(3); Fan capacities exceeding 175cfm, follow manufacturer's installation instructions or good engineering practice to size duct. Refer to <i>Ventilation Guidelines Appendix page 16-A, Duct Sizing for Larger Fans</i>							TOTAL (must equal Box E)	

Installer Certification:

I hereby certify that the design and installation of the ventilation system complies with the 2024 B.C. Building Code.



TECA Ventilation Certification Stamp
2012 or newer is current

Date _____
 Print Name _____
 Signature _____
 Company _____
 Phone _____

