

Please complete the appropriate **Mechanical Ventilation Checklist** and return to the appropriate **CRD Building Inspection office**.

Note: Ventilation checklists must be submitted with building permit application.

Mechanical Ventilation Checklists

Checklist 1	Forced Air Systems Forced air heating system ducts intake and distribute ventilation air.
Checklist 2	HRV Systems Centrally ducted HRV (heat recovery ventilator) is used alone or in combination with Force Air Heating System to meet principal ventilation system requirements.
Checklist 3	Distributed CRV Systems Ducted CRV (central recirculating ventilator) is used to meet the fresh air intake and distribution requirements and a Principal Exhaust fan meets the exhaust requirements.
Checklist 4	Exhaust Fan & Passive Inlets Used in single level, non-forced air heated dwellings located in coastal climate areas where winter design temperature is warmer than or equal to +14 degrees Fahrenheit.

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PO Box 113
Pender Island BC V0N 2M0
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bipender@crd.bc.ca

Removed reference to RADON in Make-up Air Requirements

6. HRV Fresh Air Distribution (Choose a or b)

a) Supply Air from HRV direct connect to Return Air of a Forced Air Heating System:

- FA system fan and HRV fan continuous operation and
- FA system ducted to supply air to every bedroom and each floor level without a bedroom

b) Supply Air from HRV distributed independently

- Ducted to every bedroom and each floor level without a bedroom and
- HRV fan continuous operation

7. If Heated Crawlspace present, (Choose one)

- Minimum of one Forced Air System RA grille located in the crawlspace, OR
- No RA grille in crawlspace, choose ventilation Option 1, 2, or 3 per sentence 9.32.3.7 (2)

MAKE-UP AIR Requirements

1. NAFFVA (Naturally Aspirated Fuel Fired Vented Appliance) **present in dwelling unit?** (per Sentence 9.32.4.1)

- No,** Omit Steps 2 & 3
- Yes,** Proceed to Step 2

2. Exhaust Appliance present which exceeds Box C 0.5 ACH:

- No such appliance.** Omit Step 3
- Yes,** Commit to Depressurization Test (See CAUTION, TECA Vent Manual pg 24)
- Yes,** Proceed to Step 3

3. Use Active Make-up Air for Exhaust Appliance. (Choose a or b)

Make-up Air Fan required:

Fan Make _____ Model _____ Exhaust Appliance Actual Installed Cfm _____
 Make-up Air Fan Cfm _____
 Duct diameter _____ inches Fan Location _____

- Fan interconnected with exhaust appliance fan.** Fan ducted to _____

a) Active Make-up Air delivered to an Unoccupied Area first (not directly to room containing the appliance).

i) Tempering Required per 9.32.4.1.(4)(a):

Show calculation how make-up air will be tempered to at least 34°F (1°C) before entering unoccupied area.

$$\frac{\text{Make-up Fan cfm} \times 1.08 \times (34^\circ \text{F} - \text{Winter Design Temp your location})}{3412 \text{ BTUH/kw}} = \text{Duct Heater (kw)}$$

ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill size _____ sq. in. Location _____

iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupied area: Show calculation and **describe how make-up air will be further tempered** to at least 54°F (12°C).

$$\frac{\text{Make-up Fan cfm} \times 1.08 \times (54^\circ \text{F} - 34^\circ \text{F})}{3412 \text{ BTUH/kw}} = \text{Heat from unoccupied area required to raise temp by } 20^\circ \text{F}$$

Tempered by: _____

OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required. Show calculation how make-up air will be tempered to at least 54°F (12°C).

$$\frac{\text{Make-up Fan cfm} \times 1.08 \times (54^\circ \text{F} - \text{Winter Design Temp your location})}{3412 \text{ BTUH/kw}} = \text{Duct Heater (kw)}$$

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Installer Certification:

I hereby certify that the design and installation of the ventilation system complies with the 2018 B.C. Building Code, 2014 Section 9.32 Amendment.

Date _____

Print Name _____

Signature _____

Company _____

Phone _____

2012 TECA Ventilation Certification Stamp

