

# 1 Ventilation Checklist 1: Forced Air Systems SENTENCE 9.32.3.4(2)

Use this Checklist where forced air heating system ducts intake and distributes ventilation air.

Civic Address: _____	Permit No. _____
Climate Zone: _____	Number of bedrooms <input style="width: 50px;" type="text"/> (A)
	Total floor area of living space <input style="width: 50px;" type="text"/> ft <sup>2</sup> (B)
	Total interior Volume of dwelling <input style="width: 50px;" type="text"/> ft <sup>3</sup>
0.5 ACH (air changes/hr) = Volume x 0.5 ÷ 60 = _____	<input style="width: 50px;" type="text"/> cfm (C)

A bedroom is a room with an openable window (minimum dimensions apply), a closet and a closing interior door.  
 Total volume includes all heated interior spaces (including crawlspace if heated).  
 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. Principal system fan selection:

**Continuous exhaust fan:** Make: \_\_\_\_\_ Model: \_\_\_\_\_ Sone Rating: \_\_\_\_\_

Location: \_\_\_\_\_ Capacity @ 0.2"wc ESP:  cfm (E)

\*If CEV: Capacity @ 0.4 ESP Must be ≥ box (D)

## 3. Fan duct size and equivalent length:

Length of duct \_\_\_\_\_ ft Using: eL (F) & volume (E), determine duct size according to table 9.32.3.8 (3)  in. Ø

Hood termination + 30 ft

Elbows x 10 ft. each \_\_\_\_\_ ft → Total equivalent length (eL)  ft. (F)  FLEX  RIGID

## 4. Outdoor Air (OA) must be ducted from outside to return air of forced air heating for distribution.

- a) OA duct connected between 10' & 15' upstream of the heating appliance, unless a flow control device used
- b) OA intake duct to RA: Insulate & vapour barrier entire length, OA Pipe Size: 4"Ø rigid:  5"Ø flex:
- c) Furnace fan runs continuously

## 5. Forced air heating system is distributed:

Duct system supplies outdoor air to every bedroom and any level without a bedroom

## 6. If heated crawlspace present, (choose one)

Minimum of one RA grille in crawlspace  No RA grille in crawlspace: Option 1,2, or 3, BCBC 9.32.3.7(2)

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

No, Omit Step 8  Yes, Proceed to Step 8

## 8. Exhaust appliance present which exceeds Box C 0.5 ACH:

No  Yes, Complete "Large Exhaust Make-up Air Checklist"

