## 4

## Ventilation Checklist 4—Exhaust Fan & Passive Inlets Sentence 9.32.3.4(6)

Use this checklist for small (≤ 1800 sqft), single level, **non-forced air** heated dwellings located in coastal climate areas where winter design temperature is warmer than or equal to +14°F.

coast	al climate a	reas where winter design	n tempe	rature is	s warn	ner than o	or equal to +	·14°F.	
Civic Addre	ss				_		Permit No.		
Climate Zon	ne:	Number of Bedrooms	S		(A)	A bedroom is a room with an openab window (minimum dimensions apply),			
Total Floor area of living spa				ft²	(B)	closet and a	r door.		
Total Interior Volume of Dwelling				ft³		Total volume includes all heated interior spaces (including crawlspace if heated).			
.5 ACH (air changes/hr) = Volume x $0.5 \div 60 =$				cfm	(C)	Exhaust appliances exceeding .5 ACH may require make-up air.			
Use the bed determine	room count f	System Exhaust Fan M from Box (A) and Total sq ired Prinicpal Exhaust	uare foo	tage fro	m Box			.32.3.5. to D)	
2. Principal	•								
a) Exhaust l	uous running Make		ModelSone Rating Capacity						
Location: _	8	at 0.2 E	SP	$\frac{cfm}{ity @0.4ESP}$ (E) Must be $\geq$ than Box (D)					
Length of b) Choose c) Duct siz Use Tab	type of ductor required to ble 9.32.3.8 <b>Kitchen an</b>	ft + Ext. hood <b>30 ft</b> +	gh Box l e. <b>'ans:</b> Re	Flex F equiv	duct [ alent l	or Rig	id (smooth) duct = [	in Ø	
	Required Exhaust	EXHAUST EQUIPMENT							
	RATE	Spot Exhaust Kitchen & Bath WALL/CEILING FANS Fan Make & Model CFM *Duct Sizing per Table 9.32.3.8.(3)						Ex.Fan/CEV	
ROOM	Table 9.32.3.6	Fan Make & Model	@ 0.2 ESP Manf. Rated	*Duct Di		Max. Equiv. Length per table	Installed Equiv. Length	Principal System CFM	
		ding 175cfm in Table 9.32 use good engineering prac					TOTAL (must = Box E)		

Guidelines Appendix page 16-A, Duct Sizing for Larger Fans. © March 2015 TECA All Rights Reserved Checklist 4, pg1 of 2

<ul> <li>5. Required Inlets for passive Ventilation Air Supply</li> <li>a) High wall installation (minimum 6 ft above floor)</li> <li>b) Located in each bedroom and at least one common area</li> <li>c) Inlet Free Area greater than or equal to 4 Sq In</li> </ul>			
<b>6. If Heated Crawlspace present</b> ☐ Choose ventilation option 1, 2, or 3 per sentence 9.37.3.7 (2).			
MAKE-UP AIR Requirements  1. NAFFVA (Naturally Aspirated Fuel Fired Vented Appliance) or radon present in No, Omit Steps 2 & 3  Yes, Proceed to Step 2	n dwelling unit? (per Sentence 9.32.4.1)		
<ul> <li>2. Exhaust Appliance present which exceeds Box C 0.5 ACH:</li> <li>No such appliance. Omit Step 3</li> <li>Yes, Commit to Depressurization Test (See CAUTION, TECA Vent Manual pg</li> <li>Yes, Proceed to Step 3</li> </ul>	24)		
3. Use Active Make-up Air for Exhaust Appliance. (Choose a or b)  Make-up Air Fan required: Exhaust Appliance	Actual Installed Cfm		
Fan Make Model M	Iake-up Air Fan Cfm		
Duct diameterinches			
Fan Location Fan ducted to  a) Active Make-up Air delivered to an Unoccupied Area first (not directly to roo 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) between the control of the control o			
Make-up Fan cfm X 1.08 X ( <b>34° F</b> – °F Winter Design Temp y	your location) $\equiv$ (kw)		
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill size iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupied how make-up air will be further tempered to at least 54°F (12°C).  Make-up Fancfm x 1.08 x (54° F - 34°F) =			
3412 BTUH/kw	required to raise temp by 20°F		
Tempered by:  OR b) Active Make-up Air delivered to an Occupied Area: Tempering Require be tempered to at least 54°F (12°C).  Make-up Fan cfm x 1.08 x (54° F°F Winter Design Temp y 3412 BTUH/kw	•		
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<b>Installer Certification:</b> I hereby certify that the design and installation of the ventilation system complies with the 2012 B.C. Building Code, 2014 Section 9.32 Amendment.	2012 TECA Ventilation Certification Stamp		
Date			
Print Name			
Signature			
Company			
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