## 3

## Ventilation Checklist 3—Distributed CRV Systems Sentence 9.32.3.4(5)

Use this Checklist when a ducted Central Recirculating Ventilator (CRV) is used to meet the fresh air intake and distribution requirements and a Principal Exhaust fan meets the exhaust 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 conditioned space	ft <sup>2</sup> (B)					
Total Interior Volume of Dwelling	ft <sup>3</sup>	Total volume includes all spaces	l heated interior			
.5 ACH (air changes/hr) = Volume x $0.5 \div 60 =$	cfm (C)	Exhaust appliances exceed .5 ACH may require make				
1. Principal Ventilation System Exhaust Fan Mi	nimum Air-flow R	ate				
Use the bedroom count from Box (A) and Total squa			.32.3.5. to			
determine	C					
Minimum Required Prinicpal Exhaust S	cfm (	D)				
2. Principal System Fan Choice						
a) Exhaust Fan continuous running Make	Son	e Rating				
/ 8	Capacity		8			
Location:	at 0.2 ESP	cfm (E) Must be $\geq t$	han Box (D)			
Must be $\geq$ than Box (D)	If CEV, capacit					
3. Fan Duct Size and Equivalent Length	. 1	•				
Use actual fan cfm in Box(E) above and Table 9.32.3	.8 (3) [See note at bott	tom of page for larger fan	duct sizing].			
a) Length of ductft + Exterior hood 30ft + number of 90° elbowsX 10 ft = <b>Equivalent Length</b> Maximum Equivalent Length allowed in Table 9.32.3.8(3) =						
b) Fan Duct size:inches Ø Duct type:Sm	noothFlex					
4. Required Kitchen and Bathroom Exhaust Far		Principal Exhaust Fa	n meets all or			
part of Kitchen/Bathroom spot Exhaust requiremen		,				
EVILATION	REQUIRED EXHAUST EQUIPMENT  EXHAUST EQUIPMENT					
	7', 1 0 D /1 TT/ATT	CEIL DIC EARIC	E E /CEU			

1		1 1						
	REQUIRED	EXHAUST EQUIPMENT						
	EXHAUST RATE	Spot Exhaust Kitchen & Bath WALL/CEILING FANS				Ex.Fan/CEV		
ROOM	Table	Fan Make & Model	CFM	*Duct Sizing per Table 9.32.3.8.(3)		Principal		
	9.32.3.6		@ 0.2 ESP Manf. Rated	Duct Dirigid	flex	Max. Equiv. Length per table	Installed Equiv. Length	System CFM

<sup>\*</sup> For fan capacities **exceeding** 175cfm in Table 9.32.3.8(3), follow manufacturer's installation instructions or use good engineering practice to size duct. See *Ventilation Guidelines* Appendix page 16-A

TOTAL		
(must =		
Box E)		
Ch	politict 3	nglof

5. CRV Rec	irculation and	Fresh Air Intake	Capacity @			
Make		Model	0.4 ESP	cfm (F)		
	ox F CFM: minimum 2 times Box D cfm for +5°F and warmer winter design temperature. Confirmed minimum 3 times Box D for less than +5°F winter design temperature. Confirmed					
Duet Circ for			_			
				, or 5", flex duct		
		ion (Choose optio				
		ns and Supply air t		of each hadroom raturn crilla		
List iocati	on or suppry gr	inc	and location	of each bedroom return grille		
b) Draw a	ir from commo	n area and Supply	air to bedrooms.			
List location	and location of each bedroom supply grille					
7. If Heated	Crawlspace p	resent, state meth	od of ventilating			
	AIR Requiren					
				<b>velling unit? Sentence 9.32.4.1</b>		
	roceed to Step			□ No, Omit Steps 2 & 3		
			s Box C 0.5 ACH:			
<b>☐ Yes, Pr</b>	oceed to Step			such appliance. Omit Step 3		
		-	zation Test (See CAUTION,	TECA Vent Manual pg 24)		
		for Exhaust Appli				
Make-up A	Air Fan require	d:	Exhaust Appliance	Actual Installed Cfm		
			Ma	ake-up Air Fan Cfm		
	ameter					
			Fan ducted to			
	_		upied Area first (not directly	y to room containing the appliance).		
		d per 9.32.4.1.(4)(a):	311 1 4	(100) 1-6		
Snow car	culation & descri	be now make-up air w	in be tempered to at least 34°F	(1°C) before entering unoccupied area.		
ii) Trans	sfer Grill Require	ed: Size 1 sq in of gros	s area per 2 cfm):			
Transf	fer grill size	sq. in.	Location			
				ccupied area: Show calculation and		
descri	be how make-up a	air will be further temp	pered to at least 54°F (12°C).			
				<b>Lequired.</b> Show calculation and describe		
how n	nake-up air will be	e tempered to at least 5	4°F (12°C).			
<b>Installer Ce</b>			Date			
		nd installation of the v		h the 2012 B.C. Building Code, 2014		
Section 9.32 A	mendment.		2014 TECA	Ventilation Certification Stamp		
Print Name						
Signature						
Company						
Company						
Phone						
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Checkinst 3, pg	,4014		L			