## 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

make and	aistiioati	on requirements and a rin	incipai i	ZAHaust Tair i	inects the exhaust re	quirements.	
Civic Address					Permit No	)	
Climate Zone	:	Number of Bedrooms		(A)	A bedroom is a room window (minimum din	nensions apply), a	
	Total	Floor area of living space		ft <sup>2</sup> (B)	closet and a closing inter	ior door.	
	Total Int	erior Volume of Dwelling		ft³	Total volume includes spaces (including crawls		
.5 ACH (air c	hanges/h	$r) = Volume \times 0.5 \div 60 =$		cfm (C)	Exhaust appliances exce .5 ACH may require mal		
1. Principal Vo	entilation	n System Exhaust Fan M	Iinimur	n Air-flow I	Rate		
Use the bedro determine	om count	from Box (A) and Total squ	uare foot	age from Box	x (B) above and Table	9.32.3.5. to	
Minim	um Requ	ired Prinicpal Exhaust	System	Capacity	cfm	(D)	
2. Principal Sy	ystem Fa	n Choice					
a) Exhaust Fa	n contin	uous running Make		Model	So	ne Rating	
				Capacity [			
Location:				L	cfm (E) Must be	≥ than Box (D)	
3. Fan Duct Si	ze and F	Equivalent Length	I:	f CEV, capaci	ity @0.4ESP		
a) Installed I		•					
		ft + Ext. hood <b>30 ft</b> + (	(#	elbows at 10	ft each =) =	ft (F)	
b) Choose type of duct: Flex duct $\square$ or Rigid (smooth) duct $\square$							
	-	to flow Box E cfm through	-	equivalent	length of duct =		
Use Table	9.32.3.8	(3) to determine duct size	e.			in Ø	
-		nd Bathroom Exhaust Fa m spot Exhaust requireme		-list below it	f Principal Exhaust I	Fan meets all or	
	REQUIRED	EXHAUST EQUIPMENT					
	EXHAUST RATE	Spot Exhaust Kitchen & Bath WALL/CEILING FANS Ex.Fan/CE					
ROOM	Table	Fan Make & Model	CFM		g per Table 9.32.3.8.(3)	Principal	

1		1 1						
	REQUIRED EXHAUST RATE Table 9.32.3.6	EXHAUST EQUIPMENT						
		Spot Exha	Ex.Fan/CEV					
ROOM		Fan Make & Model CFM @ 0.2 ESI Manf. Rated	_	*Duct Sizing per Table 9.32.3.8.(3)			Principal	
			Manf.	Duct Dirigid	flex	Max. Equiv. Length per table	Installed Equiv. Length	System CFM
* For fan capa	cities excee	eding 175cfm in Table 9.3	2 3 8(3)	follow r	manufa	cturer's	TOTAL	

installation instructions or use good engineering practice to size duct. See Ventilation Box E) Guidelines Appendix page 16-A, Duct Sizing for Larger Fans. © March 2015 TECA All Rights Reserved Checklist 3, pg1of2

\* For fan capacities **exceeding** 175cfm in Table 9.32.3.8(3), follow manufacturer's

(must =

## Removed reference to RADON in Make-up Air Requirements

5. CRV Fresh Air Intake & Mix	_		• 4 1	•	
a) Box G CFM is minimum 2 b) Box G CFM is minimum 3					
Make				inperature.	
c) Duct Size for Fresh Air inta			0.4 ESP	cfm	(G)
Min 4"Ø rigid duct, must be Min 5"Ø, flex duct, must be	•		-		
6. CRV Fresh Air Circulation (C	Choose a or b)				
a) Draw air from bedrooms an b) Draw air from common are	11 0				
7. If Heated Crawlspace present	t				
Choose ventilation option 1, 2  MAKE-UP AIR Requirem		.32.3.7 (2).			
1. NAFFVA (Naturally Aspirated No, Omit Steps 2 & 3		appliance) <b>pres</b> e	ent in dwelling	g unit? (per Sentence	9.32.4.1)
Yes, Proceed to Step 2					
2. Exhaust Appliance present we No such appliance. Omit Ste		C 0.5 ACH:			
Yes, Commit to Depressuriza Yes, Proceed to Step 3	1	TION, TECA V	ent Manual pg	24)	
3. Use Active Make-up Air for Ex	khaust Appliance. (C	Choose a or b)			
Make-un Air Fan required	•	Evhai	st Appliance	Actual Installed Cf	m
Fan Makein	Model		M	lake-up Air Fan Cf	m
Duct diameterin	ches	Fan Location _			
Fan interconnected with exh a) Active Make-up Air delivered i) Tempering Required per 9.32 Show calculation how make	d to an Unoccupied 2.4.1.(4)(a):	Area first (not	directly to roo	m containing the app	oliance).
Make-up Fan cfm	X 1.08 X ( <b>34° F</b> – _	°F Winter	Design Temp y	our location)	=(kw)
	3	3412 BTUH/kw			Duct Heater
<ul><li>ii) Transfer Grill Required: Siz</li><li>iii) Additional Tempering Requ</li><li>how make-up air will be for</li></ul>	uired per 9.32.4.1.(4	(b) before trans	sfer to occupie		
	cfm x 1.08 x (			(love) Heat from	
Make up I all	3412 BTUH/I		=		n unoccupied area raise temp by 20°F
				required to r	alse temp by 20 T
Tempered by:  OR b) Active Make-up Air delive be tempered to at least 54°	vered to an Occupio			d. Show calculation	how make-up air wil
Make-up Fan cfm		°F Winter	Design Temp v	our location)	(1 )
© March 2015 TECA All Rights Re		2 BTUH/kw	8 13		(kw) uct Heater
<b>Installer Certification:</b>	3712	Z BT CTI/KW		2012 TECA V	
I hereby certify that the design an complies with the 2012 B.C. Buil				Certification	
Date					
Print Name					
Signature					
Company					
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