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

iiitake air	a distiluati	on requirements and a r r	merpar.	LAHaus	t Iuii ii	icets the c	Anaust requ	in cincins.	
Civic Addres	SS					I	Permit No		
Climate Zone: Number of Bedrooms Total Floor area of living space					(A)	window (m	inimum dimer	a room with an openable mum dimensions apply), a	
			;	ft²	(B)	closet and a closing interior door.		r door.	
Total Interior Volume of Dwelling				ft ³		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 bedi	room count	n System Exhaust Fan M from Box (A) and Total sq nired Prinicpal Exhaust	uare foo	tage from	m Box			32.3.5. to	
2. Principal S	System Fa	n Choice							
a) Exhaust Fan continuous running MakeModel Sone Rating								e Rating	
Location:				Capacit at 0.2 E	-	cfm (E) Must be \geq than Box (D)			
_						y @0.4ESI			
a) Installed Equivalent Length: Length of ductft + Ext. hood 30 ft + (# elbows at 10 ft each =) =ft b) Choose type of duct: C) Duct size required to flow Box E cfm through Box F equivalent length of duct Use Table 9.32.3.8 (3) to determine duct size.									
-		nd Bathroom Exhaust F m spot Exhaust requirement		e-list be	low if	Principal	Exhaust Fa	n meets all o	
	REQUIRED	EXHAUST EQUIPMENT							
	EXHAUST RATE	Spot Exhaust Kitchen & Bath WALL/CEILING FANS						Ex.Fan/CEV	
ROOM	Table 9.32.3.6	Fan Make & Model	CFM @ 0.2 ESP Manf. Rated	Duct Di		Max. Equiv. Length per table	.32.3.8.(3) Installed Equiv. Length	Principal System CFM	
* E f		eding 175cfm in Table 9 32	2.0(2)	2-11	C		TOTAL		
T For Ian cana	acities exce	Paino 1/3ctm in Table 937	3 8(3) 1	OHOW 11	nanuta	cuirer's	101111		

Guidelines Appendix page 16-A, Duct Sizing for Larger Fans. © March 2015 TECA All Rights Reserved Checklist 3, pg1of2

installation instructions or use good engineering practice to size duct. See Ventilation

Box E)

5. CRV Fresh Air Intake & M	lixing Fan (Choose a or b)				
	2 times Box E cfm for +5°F				
	3 times Box E for less than	_	perature.		
	Model				
Min 4"Ø rigid duct, must	ntake into return air of CRV: be insulated & vapour barriere	d for full length, OR	cfm (F)		
	be insulated & vapour barriere	a for full length,			
6. CRV Fresh Air Circulation					
b) Draw air from common a	and Supply air to common a area and Supply air to bedroo				
7. If Heated Crawlspace pres	ent				
Choose ventilation option 1 MAKE-UP AIR Require	, 2, or 3 per sentence 9.37.3. ements	7 (2).			
1. NAFFVA (Naturally Aspirat No, Omit Steps 2 & 3 Yes, Proceed to Step 2	ed Fuel Fired Vented Applia	nce) or radon present i n	a dwelling unit? (per Sentence 9.32.4.1)		
2. Exhaust Appliance present No such appliance. Omit		ACH:			
Yes, Commit to Depressur. Yes, Proceed to Step 3	ization Test (See CAUTION	, TECA Vent Manual pg	24)		
3. Use Active Make-up Air for	Exhaust Appliance. (Choose	e a or b)			
Make-up Air Fan required:		Exhaust Appliance	Actual Installed Cfm		
		M	Take-up Air Fan Cfm		
Duct diameter					
Fan Location a) Active Make-up Air deliver	Fan	ducted to			
		first (not directly to room	m containing the appliance).		
i) Tempering Required per 9		1 1 240E (10C) 1 (
			ore entering unoccupied area.		
Make-up Fan cfm	_ X 1.08 X (34° F –	F Winter Design Temp y	your location) = (kw)		
	3412 H	BTUH/kw	Duct Heater		
iii) Additional Tempering Re		efore transfer to occupied	esq. in. Location d area: Show calculation and describe		
-	ncfm x 1.08 x (54° F	0.4075)	(1) II + f		
*	= 34 17) =	(kw) Heat from unoccupied area			
	3412 BTUH/kw		required to raise temp by 20°F		
be tempered to at least 5	54°F (12°C).		d. Show calculation how make-up air will		
•	_ x 1.08 x (54° F –	F Winter Design Temp y	our location) = (kw)		
© March 2015 TECA All Rights	Reserved 3412 BTU	H/kw	Duct Heater		
Installer Certification:			2012 TECA Ventilation		
I hereby certify that the design complies with the 2012 B.C. B	Certification Stamp				
Date					
Print Name					
Signature					
Company					
Phone					
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