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Ventilation Checklist 2—HRV Systems Sentence 9.32.3.4 (3) & (4)

Use this checklist when a centrally ducted HRV (heat recovery ventilator) is used alone or in combination with a Forced Air Heating System to meet principal ventilation system 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 living space	ft ² (B)						
Total In	terior Volume of Dwelling	ft³	Total volume includes all heated inte spaces (including crawlspace if heated).					
.5 ACH (air changes/l	$\text{nr}) = \text{Volume x } 0.5 \div 60 =$	cfm (C)	Exhaust appliances exceeding .5 ACH may require make-up air.					
1. Use the bedroom count (Box A above) and total square footage (Box B above) to determine the minimum principal Air Flow rate required by Table 9.32.3.5								
Minimum Required Rate			te cfm	(D)				
2. HRV Make	N	Model						
3. HRV Capacity: CFM @ 0.4 ESP. Box E must meet Box D requirement.								
4. List Exhaust Grilles Locations: 1 minimum @ 6 ft or higher from floor of uppermost level.								
T 1 1 1774 1								

5. Required Kitchen and Bathroom Exhaust

If HRV used to meet all or part of Kitchen/Bathroom spot exhaust requirements list below.

	Required	EXHAUST EQUIPMENT						
	EXHAUST RATE	Spot Exhaust Kitchen & Bath WALL/CEILING FANS					HRV	
ROOM	Table 9.32.3.6	Fan Make & Model	CFM	*Duct Sizing per Table 9.32.3.8.(3)		Principal		
THO OTH		N	@ 0.2 ESP Manf. Rated	Duct D rigid	ia (in Ø) flex	Max. Equiv. Length per table	Installed Equiv. Length	System CFM

^{*} 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*

TOTAL (must = Box E)

Guidelines Appendix page 16-A, Duct Sizing for Larger Fans. © March 2015 TECA All Rights Reserved Checklist 2, pg1of2

${\it Removed \ reference \ to \ RADON \ in \ Make-up \ Air \ Requirements}$

6. HRV Fresh Air Distribution (Choose a or b)								
a) Supply Air from HRV direct connect to Return Air of a F	orced Air Heating System:							
☐ FA system fan and HRV fan continuous operation and								
FA system ducted to supply air to every bedroom and each floor level without a bedroom								
b) Supply Air from HRV distributed independently								
Ducted to every bedroom and each floor level without a bedroo	m and							
HRV fan continuous operation								
7. If Heated Crawlspace present, (Choose one)								
Minimum of one Forced Air System RA grille located in the crawlspace, OF	8							
No RA grille in crawlspace, choose ventilation Option 1, 2, or 3 per sentence								
MAKE-UP AIR Requirements								
1. NAFFVA (Naturally Aspirated Fuel Fired Vented Appliance) present in dwe	elling unit? (per Sentence 9.32.4.1)							
No, Omit Steps 2 & 3								
Yes, Proceed to Step 2								
 2. Exhaust Appliance present which exceeds Box C 0.5 ACH: No such appliance. Omit Step 3 Yes, Commit to Depressurization Test (See CAUTION, TECA Vent Manual Yes, Proceed to Step 3 	ıl pg 24)							
3. Use Active Make-up Air for Exhaust Appliance. (Choose a or b)								
Make-up Air Fan required: Exhaust Applia Fan Make Model	nce Actual Installed Cfm							
Fan Make Model	Make-up Air Fan Cfm							
Duct diameterinches Fan Location								
☐ Fan interconnected with exhaust appliance fan. Fan ducted to a) Active Make-up Air delivered to an Unoccupied Area first (not directly to 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)	o room containing the appliance).							
Make-up Fan cfm X 1.08 X (34° F – °F Winter Design Te	mp your location) $=$ (kw)							
3412 BTUH/kw	Duct Heater							
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer gril iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occ 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							
	requires to raise temp by 20 T							
Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Req be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Te	-							
© March 2015 TECA All Rights Reserved 3412 BTUH/kw	Duct Heater							
Installer Certification: 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	_							
Phone								
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