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Please complete the appropriate attached Mechanical Ventilation Checklist.

Framing Inspections <u>will not be done</u> until the form is completed and signed and sealed by a Certified Teca Designer and returned to the Building Department.

Mechanical Ventilation Checklists

(Please complete the appropriate attached checklist)

Checklist 1	Forced Air Systems Forced air heating system ducts intake and distribute ventilation air.
Checklist 2	HRV Systems Centrally ducted HRV (heat recovery ventilator) is used alone or in combination with a Forced Air Heating System to meet principal ventilation system requirements.
Checklist 3	Distributed CRV Systems 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.
Checklist 4	Exhaust Fan & Passive Inlets Use this checklist for small (less than 1800 sq ft), single level, non- forced air heated dwellings located in climate areas where winter design temperature is warmer than -20°C.

Ventilation Checklist 1—Forced Air Systems SENTENCE 9.32.3.4(2)

Use this Checklist where forced air heating system ducts intake and distribute ventilation air.

Civic Address		Permit No
Climate Zone: Number of Bedrooms	(A)	window (minimum dimensions apply), a
Total Floor area of living space	ft ² (B)	closet and a closing interior 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 $0.5 \div 60 = \begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix}$	cfm (C)	Exhaust appliances exceeding .5 ACH may require make-up air.
1. Principal Ventilation System Exhaust Fan Min	nimum Air-flow	Rate
Use the bedroom count from Box (A) and Total squa determine Minimum Required Prinicpal Exhaust Systems	re footage from Bo	
2. Principal System Fan Choice	1.	
a) Exhaust Fan continuous running Make	Model	I Sone Rating
Location:		
	If CEV, capac	city @0.4ESP
 3. Fan Duct Size and Equivalent Length a) Installed Equivalent Length: Length of ductft + Ext. hood 30 ft + (b) Choose type of duct: 	Flex duct	or Rigid (smooth) duct
c) Duct size required to flow Box E cfm through Bo Use Table 9.32.3.8 (3) to determine duct size.		in Ø
4. Required Kitchen and Bathroom Exhaust Far	s: Re-list below	if Principal Exhaust Fan meets all or

4. **Required Kitchen and Bathroom Exhaust Fans:** Re-list below if Principal Exhaust Fan meets all or part of Kitchen/Bathroom spot Exhaust requirements.

	REQUIRED	E	EXHAUST EQUIPMENT					
	Exhaust Rate	Spot Exhaust Kitchen & Bath WALL/CEILING FANS Ex.Fan/CEV						
ROOM	Table	Fan Make & Model	CFM	*Duc	et Sizing		9.32.3.8.(3)	Principal
KOOM	9.32.3.6		@ 0.2 ESP Manf.	Duct D	· · · · ·	Max. Equiv. Length per	Installed Equiv.	System CFM
			Rated	rigid	flex	table	Length	
* 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, Duct Sizing for Larger Fans. © March 2015 TECA All Rights Reserved Checklist 1, pg1of2

 device is used. b) Duct Size for Fresh Air intake to RA. Choose one. Rigid Duct: 4" Ø minimum, must be insulated & vapour barriered for full length, OR Flex Duct: 5"Ø minimum, must be insulated & vapour barriered for full length. c) Furnace fan continuous operation.
Flex Duct: 5"Ø minimum, must be insulated & vapour barriered for full length.
6. Forced Air Heating System is ducted to supply air to every bedroom and any level without a bedroom.
7. If Heated Crawlspace present, (Choose one) Minimum of one RA grille located in the crawlspace, OR
<u>No</u> RA grille in crawlspace, choose ventilation Option 1, 2, or 3 per sentence 9.32.3.7 (2)
MAKE-UP AIR Requirements
 1. NAFFVA (Naturally Aspirated Fuel Fired Vented Appliance) present in dwelling 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 pg 24) Yes, Proceed to Step 3
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 Make-up Air Fan Cfm
Fan Make Model Duct diameter inches 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 room containing the appliance).
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) before entering unoccupied area.
$\underline{\text{Make-up Fan cfm}}_{X \text{ 1.08 X (34° F}-\underline{}^{\circ} \text{F Winter Design Temp your location)}}_{2412 \text{ DTMU/a}} = \underline{}_{V \text{ (kw)}}$
3412 BTUH/kw Duct Heater ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill sizesq. in. Location
iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupied area: Show calculation and describe
how make-up air will be further tempered to at least 54° F (12°C).
$\underline{\text{Make-up Fan} _ \text{cfm x } 1.08 \text{ x } (54^{\circ} \text{ F} - 34^{\circ} \text{F})}_{\text{2412 PETVIN}} = \underline{(\text{kw}) \text{ Heat from unoccupied area}}_{\text{16}}$
3412 BTUH/kw required to raise temp by 20°F
Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required. Show calculation how make-up air will
be tempered to at least 54°F (12°C).
Make-up Fan cfm x 1.08 x (54° F – °F Winter Design Temp your location) = (kw)
3412 BTUH/kw Duct Heater
© March 2015 TECA All Rights Reserved
Installer Certification: 2012 TECA Ventilation
I hereby certify that the design and installation of the ventilation system Certification Stamp
complies with the 2012 B.C. Building Code, 2014 Section 9.32 Amendment.
Date
Print Name
Signature
Company
PhoneChecklist 1, page2of2

2014 Amendment to Section 9.32 Ventilation 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
Total Floor area of living space	ft ² (B)	closet and a closing interior 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.
1. Use the bedroom count (Box A above) and tot minimum principal Air Flow rate required by T	1 0	e (Box B above) to determine the

Minimum principal Air Flow rate required by Table 9.52.5.5 Minimum Required Rate	cfm	(D)
2. HRV Make Model		
3. HRV Capacity: CFM @ 0.4 ESP. Box E must meet Box D requirement.	cfm	(E)

4. List Exhaust Grilles Locations: 1 minimum @ 6 ft or higher from floor of uppermost level.

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	Fan Make & Model	CFM				9.32.3.8.(3)	Principal
	9.32.3.6		@ 0.2 ESP Manf. Rated	Duct D rigid	ia (in Ø) flex	Max. Equiv. Length per table	Installed Equiv. Length	System CFM
* For fan capa	* For fan capacities exceeding 175cfm in Table 9.32.3.8(3), follow manufacturer's							

* 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, Duct Sizing for Larger Fans. © March 2015 TECA All Rights Reserved Checklist 2, pg1of2

Box E)

	tribution (Choose a	a or b)	
a) Supply Air from	HRV direct conne	ct to Return Air of a Forc	ed Air Heating System:
FA system fan and H			
FA system ducted to	supply air to every	bedroom and each floor lev	vel without a bedroom
b) Supply Air from	11 0 0		
		r level without a bedroom a	ind
HRV fan continuous			
7. If Heated Crawl	1	oose one)	
		ocated in the crawlspace, OR	
<u>No</u> RA grille in crawlsp	ace, choose ventilation (Option 1, 2, or 3 per sentence 9.3	32.3.7 (2)
MAKE-UP AIR Requ	irements		
	pirated Fuel Fired Ventee	d Appliance) present in dwellin	g unit? (per Sentence 9.32.4.1)
No, Omit Steps 2 & 3			
Yes, Proceed to Step 2			
2. Exhaust Appliance pres		с С 0.5 АСН:	
No such appliance . Of Ves Commit to Depres	-	UTION, TECA Vent Manual pg	24)
Yes, Proceed to Step 3	ssurization test (See CA	TOTION, TECA vent Manual pg	, 24)
3. Use Active Make-up Air	for Fyhaust Appliance	(Choose a or h)	
			Actual Installed Cfm
Fan Make	Model	N	Actual Installed Cfm Iake-up Air Fan Cfm
		Fan Location	
1		<i>n</i> . Fan ducted to	
a) Active Make-up Air de	livered to an Unoccupi	ed Area first (not directly to roo	om containing the appliance).
i) Tempering Required p			
		mpered to at least 34°F (1°C) be	fore entering unoccupied area.
Make-up Fan cfm	X 1 08 X (34° F –	°F Winter Design Temp	vour location) (1)
Make-up Fan cfm	X 1.08 X (34° F –	• °F Winter Design Temp	$\frac{\text{your location}}{\text{Duct Heater}} = \frac{(\text{kw})}{\text{Duct Heater}}$
		STIL DI CIDRO	$\frac{\text{your location}}{\text{Duct Heater}} = \frac{1}{\text{Duct Heater}}$
ii) Transfer Grill Require	ed: Size 1 sq in of gross	area per 2 cfm: Transfer grill siz	esq. in. Location
ii) Transfer Grill Require iii) Additional Temperin	ed: Size 1 sq in of gross	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie	2 000 1100001
ii) Transfer Grill Require iii) Additional Temperin how make-up air wi	ed: Size 1 sq in of gross g Required per 9.32.4.1.	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C).	esq. in. Location
ii) Transfer Grill Require iii) Additional Temperin how make-up air wi	ed: Size 1 sq in of gross g Required per 9.32.4.1. ll be further tempered	area per 2 cfm: Transfer grill siz (4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) =	esq. in. Location d area: Show calculation and describe
ii) Transfer Grill Require iii) Additional Temperin how make-up air wi Make-up	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH	area per 2 cfm: Transfer grill siz (4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) =	esq. in. Location d area: Show calculation and describe (kw) Heat from unoccupied area
ii) Transfer Grill Require iii) Additional Temperin how make-up air wi Make-up Tempered by: ————————————————————————————————————	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) = H/kw	<pre>sq. in. Location</pre>
ii) Transfer Grill Require iii) Additional Temperin how make-up air wi Make-up Tempered by: ————————————————————————————————————	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUF r delivered to an Occu	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) = H/kw	esq. in. Location d area: Show calculation and describe (kw) Heat from unoccupied area
 ii) Transfer Grill Require iii) Additional Temperin how make-up air wi Make-up Tempered by: OR b) Active Make-up Ai be tempered to at lease 	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occup ast 54°F (12°C).	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) = H/kw	<pre>sq. in. Location</pre>
 ii) Transfer Grill Require iii) Additional Temperin how make-up air wi Make-up Tempered by: OR b) Active Make-up Ai be tempered to at lea Make-up Fan cfm 	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occup ast 54°F (12°C). x 1.08 x (54° F –	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) = H/kw pied Area: Tempering Require °F Winter Design Temp	<pre>sq. in. Location</pre>
 ii) Transfer Grill Require iii) Additional Temperin how make-up air wi Make-up Tempered by: OR b) Active Make-up Ai be tempered to at lease 	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occup ast 54°F (12°C). x 1.08 x (54° F –	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) = H/kw pied Area: Tempering Require	<pre>sq. in. Location</pre>
 ii) Transfer Grill Required iii) Additional Temperin how make-up air wit Make-up Tempered by:	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occur ast 54°F (12°C). x 1.08 x (54° F – 34	area per 2 cfm: Transfer grill siz (4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) = H/kw pied Area: Tempering Require °F Winter Design Temp ; 412 BTUH/kw	<pre>sq. in. Location</pre>
 ii) Transfer Grill Required iii) Additional Temperin how make-up air with Make-up Tempered by:	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occu ast 54°F (12°C). x 1.08 x (54° F – 	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) = H/kw pied Area: Tempering Require °F Winter Design Temp ; 412 BTUH/kw he ventilation system	$\frac{1}{2} = \frac{1}{2} $
 ii) Transfer Grill Required iii) Additional Temperin how make-up air wit Make-up Tempered by:	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occu ast 54°F (12°C). x 1.08 x (54° F – 	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) = H/kw pied Area: Tempering Require °F Winter Design Temp ; 412 BTUH/kw he ventilation system	$\frac{1}{2011 \text{ Heat}}$ $\frac{1}{2012 \text{ TECA Ventilation}}$
 ii) Transfer Grill Required iii) Additional Temperin how make-up air wit Make-up Tempered by: OR b) Active Make-up Ait be tempered to at leas Make-up Fan cfm © March 2015 TECA All Right Installer Certification I hereby certify that the dess complies with the 2012 B.C.	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occup ast 54°F (12°C). x 1.08 x (54° F – 34 is Reserved 34 is gn and installation of th C. Building Code, 2014 S	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) = H/kw pied Area: Tempering Require °F Winter Design Temp ; 412 BTUH/kw he ventilation system	$\frac{1}{2011 \text{ Heat}}$ $\frac{1}{2012 \text{ TECA Ventilation}}$
 ii) Transfer Grill Required iii) Additional Temperin how make-up air with Make-up Tempered by:	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occup ast 54°F (12°C). x 1.08 x (54° F – 34 is Reserved 34 is gn and installation of th C. Building Code, 2014 S	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) = H/kw pied Area: Tempering Require °F Winter Design Temp ; 412 BTUH/kw he ventilation system	$\frac{1}{2011 \text{ Heat}}$ $\frac{1}{2012 \text{ TECA Ventilation}}$
 ii) Transfer Grill Required iii) Additional Temperin how make-up air with Make-up Tempered by:	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occup ast 54°F (12°C). x 1.08 x (54° F – ats Reserved 34 i: ign and installation of the C. Building Code, 2014 S	area per 2 cfm: Transfer grill siz (4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) =	$\frac{1}{2011 \text{ Heat}}$ $\frac{1}{2012 \text{ TECA Ventilation}}$
 ii) Transfer Grill Required iii) Additional Temperin how make-up air wit Make-up Tempered by: OR b) Active Make-up Ait be tempered to at leas Make-up Fan cfm © March 2015 TECA All Right Installer Certification I hereby certify that the dess complies with the 2012 B.C.	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occup ast 54°F (12°C). x 1.08 x (54° F – ats Reserved 34 i: ign and installation of the C. Building Code, 2014 S	area per 2 cfm: Transfer grill siz (4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) =	$\frac{1}{2011 \text{ Heat}}$ $\frac{1}{2012 \text{ TECA Ventilation}}$
 ii) Transfer Grill Required iii) Additional Temperin how make-up air with Make-up Tempered by:	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occu ast 54°F (12°C). x 1.08 x (54° F – 34 st Reserved 34 :: ign and installation of th C. Building Code, 2014 S	area per 2 cfm: Transfer grill siz (4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) =	$\frac{1}{2011 \text{ Heat}}$ $\frac{1}{2012 \text{ TECA Ventilation}}$
 ii) Transfer Grill Required iii) Additional Temperin how make-up air with Make-up Tempered by: OR b) Active Make-up Ait be tempered to at lease tempered to at lease Make-up Fan cfm © March 2015 TECA All Right Installer Certifications I hereby certify that the dest complies with the 2012 B.C. Date Print Name Signature 	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occup ast 54°F (12°C). x 1.08 x (54° F – 34 is Reserved 34 i: ign and installation of th C. Building Code, 2014 S	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) =	$\frac{1}{2011 \text{ Heat}}$ $\frac{1}{2012 \text{ TECA Ventilation}}$
 ii) Transfer Grill Required iii) Additional Temperin how make-up air with Make-up Tempered by:	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occup ast 54°F (12°C). x 1.08 x (54° F – 34 is Reserved 34 i: ign and installation of th C. Building Code, 2014 S	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) =	$\frac{1}{2011 \text{ Heat}}$ $\frac{1}{2012 \text{ TECA Ventilation}}$
 ii) Transfer Grill Required iii) Additional Temperin how make-up air with Make-up Tempered by: OR b) Active Make-up Air be tempered to at lease tempered to at lease Make-up Fan cfm © March 2015 TECA All Right Installer Certifications I hereby certify that the dese complies with the 2012 B.C. Date Print Name Signature Company	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occup ast 54°F (12°C). x 1.08 x (54° F – ats Reserved 34 i: ign and installation of th C. Building Code, 2014 S	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) =	$\frac{1}{2011 \text{ Heat}}$ $\frac{1}{2012 \text{ TECA Ventilation}}$
 ii) Transfer Grill Required iii) Additional Temperin how make-up air with Make-up Tempered by: OR b) Active Make-up Ait be tempered to at lease tempered to at lease Make-up Fan cfm © March 2015 TECA All Right Installer Certifications I hereby certify that the dest complies with the 2012 B.C. Date Print Name Signature 	ed: Size 1 sq in of gross g Required per 9.32.4.1. Il be further tempered Fancfm x 1.08 3412 BTUH r delivered to an Occup ast 54°F (12°C). x 1.08 x (54° F – ats Reserved 34 i: ign and installation of th C. Building Code, 2014 S	area per 2 cfm: Transfer grill siz .(4)(b) before transfer to occupie to at least 54°F (12°C). x (54° F – 34°F) =	$\frac{1}{2011 \text{ Heat}}$ $\frac{1}{2012 \text{ TECA Ventilation}}$

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
Total Floo	r area of living space	ft²	(B)	closet and a closing interior 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.
1. Principal Ventilation System	stem Exhaust Fan Mi	nimum Air-f	low R	ate
				(B) above and Table 9.32.3.5. to
Minimum Required	l Prinicpal Exhaust Sy	ystem Capac	ity	cfm (D)
2. Principal System Fan C	hoice			
a) Exhaust Fan continuou		Μ	odel	Sone Rating
,	0	Capacit		
Location:		at 0.2 E	SP	$cfm(E)$ Must be \geq than Box (D)
		If CEV, c	apacit	ty @0.4ESP
3. Fan Duct Size and Equi	ē			
a) Installed Equivalent Le				
Length of ductft	+ Ext. hood 30 ft + (_	# elbows	at 10	$ft each = \underline{\qquad}) = \underline{\qquad} ft (F)$
b) Choose type of duct:		Flex of	duct [or Rigid (smooth) duct
c) Duct size required to fl	ow Box E cfm through	Box F equiva	alent l	length of duct =
Use Table 9.32.3.8 (3)	to determine duct size.			in Ø
4. Required Kitchen and B	athroom Exhaust Fai	ns: Re-list bel	low if	Principal Exhaust Fan meets all or

part of Kitchen/Bathroom spot Exhaust requirements.

	REQUIRED	E	XHAUST	EQUI	PMENT	ı		
	Exhaust Rate	Spot Exhau	ıst Kitcher	n & Bath	n WALL	/CEILING	FANS	Ex.Fan/CEV
ROOM	Table 9.32.3.6	Fan Make & Model	CFM @ 0.2 ESP Manf. Rated	*Duc Duct D rigid		per Table 9 Max. Equiv. Length per table	9.32.3.8.(3) Installed Equiv. Length	Principal 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 <i>Ventilation</i>								

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

5. CRV Fresh Air Intake & Mixi (a) Box G CFM is minimum 2 t	imes Box E cfm for +5°F			
b) Box G CFM is minimum 3		8	perature.	
Make c) Duct Size for Fresh Air intal	Model	Capacity @ 0.4 ESP	- free	(\mathbf{C})
Min 4"Ø rigid duct, must be Min 5"Ø, flex duct, must be	insulated & vapour barriered	for full length, OR	cfm	(0)
6. CRV Fresh Air Circulation (C	hoose a or b)			
a) Draw air from bedrooms andb) Draw air from common area				
7. If Heated Crawlspace present				
Choose ventilation option 1, 2, MAKE-UP AIR Requirement	ents			
 1. NAFFVA (Naturally Aspirated No, Omit Steps 2 & 3 Yes, Proceed to Step 2 	Fuel Fired Vented Applian	ce) present in dwelling	unit? (per Sentence	9.32.4.1)
	tich avaaada Day C 0 5 A	CII.		
2. Exhaust Appliance present wh		СП:		
Yes, Commit to Depressurizat		TECA Vent Manual pg 2	24)	
3. Use Active Make-up Air for Ex	haust Appliance. (Choose	a or b)		
Make-up Air Fan required:		Exhaust Appliance A	ctual Installed Cfn	n
Make-up Air Fan required: Fan Make Duct diameterind	Model	M	ake-up Air Fan Cfn	n
 Fan interconnected with exhapt a) Active Make-up Air delivered i) Tempering Required per 9.32 Show calculation how make 	to an Unoccupied Area : .4.1.(4)(a):	first (not directly to roor	n containing the app	liance).
Make-up Fan cfm X	X 1.08 X (34° F – °]	F Winter Design Temp y	our location)	= (kw)
Make-up Fan cfm X	3412 B	TUH/kw		Duct Heater
ii) Transfer Grill Required: Sizeiii) Additional Tempering Requhow make-up air will be fue	ired per 9.32.4.1.(4)(b) be arther tempered to at lease	fore transfer to occupied t 54°F (12°C).		
Make-up Fan	cfm x 1.08 x (54° F	$-34^{\circ}F) = $	(kw) Heat from	1
	3412 BTUH/kw		required to ra	uise temp by 20°F
Tempered by: OR b) Active Make-up Air deliv be tempered to at least 54°	ered to an Occupied Are F (12°C).	a: Tempering Required	1	-
Make-up Fan cfm x © March 2015 TECA All Rights Res				(kw)
	3412 BTU	H/kw		ict Heater
Installer Certification: I hereby certify that the design and complies with the 2012 B.C. Build			2012 TECA Ve Certification	
Date				
Print Name				
Signature				
Company				
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4 Ventilation Checklist 4—Exhau

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

Use this checklist for small (\leq 1800 sqft), single level, **non-forced air** heated dwellings located in *mild coastal & moderate interior climates where winter design temperature is warmer than* $-4^{\circ}F$.

Civic Address		Permit No				
Climate Zone: Number of Bedrooms	(A	window (minimum dimensions apply), a				
Total Floor area of living space	ft ² (B	closet and a closing interior 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 $0.5 \div 60 =$						
1. Principal Ventilation System Exhaust Fan Mi	nimum Air-flow	Rate				
Use the bedroom count from Box (A) and Total squa determine	are footage from B	ox (B) above and Table 9.32.3.5. to				
Minimum Required Prinicpal Exhaust S	ystem Capacity	cfm (D)				
2. Principal System Fan Choice						
a) Exhaust Fan continuous running Make	Mode	el Sone Rating				
Location:	Capacity at 0.2 ESP					
2 For Duct Sine and Faminalant Lagrath	If CEV, capa	city @0.4ESP				
 3. Fan Duct Size and Equivalent Length a) Installed Equivalent Length: Length of ductft + Ext. hood 30 ft + (# elbows at 10 ft each =) = ft (F) 						
 b) Choose type of duct: Flex duct or Rigid (smooth) duct c) Duct size required to flow Box E cfm through Box F equivalent length of duct = in Ø 						
4. Required Kitchen and Bathroom Exhaust Fans: Re-list below if Principal Exhaust Fan meets all or						

4. **Required Kitchen and Bathroom Exhaust Fans:** Re-list below if Principal Exhaust Fan meets all or part of Kitchen/Bathroom spot Exhaust requirements.

	Required	EXHAUST EQUIPMENT							
	Exhaust Rate Table 9.32.3.6	Spot Exha	Ex.Fan/CEV						
ROOM		Fan Make & Model	CFM @ 0.2 ESP Manf.	*Duct Sizing per Table 9.32.3.8.(3)			Principal		
						Max. Equiv. Length per	Installed Equiv. Length	System CFM	
			Rated	rigid	flex	table	Length		
~		ding 175cfm in Table 9.3					TOTAL (must =		

installation instructions or use good engineering practice to size duct. See *Ventilation Guidelines* Appendix page 16-A, *Duct Sizing for Larger Fans*. © March 2015 TECA All Rights Reserved Checklist 4, pg1 of 2

 5. Required Inlets for particular in the second s	ion (minimum 6 ft edroom and at least	above floor) one common area	1	
6. If Heated Crawlspace		sentence 9.32.3.7	(2).	
MAKE-UP AIR Requir 1. NAFFVA (Naturally Aspira No, Omit Steps 2 & 3 Yes, Proceed to Step 2		Appliance) present in	n dwelling unit? (per Ser	ntence 9.32.4.1)
 2. Exhaust Appliance present No such appliance. Omit Yes, Commit to Depressut Yes, Proceed to Step 3 	t Step 3		/Ianual pg 24)	
3. Use Active Make-up Air for	r Exhaust Appliance. (1.00
Make-up Air Fan required: Fan Make	Model	Exhaust A	ppliance Actual Install Make-up Air Fa	an Cfm
Duct diameter			-	
 Fan interconnected with a) Active Make-up Air delivered i) Tempering Required per Show calculation how n 	ered to an Unoccupie 9.32.4.1.(4)(a):	d Area first (not direc	ctly to room containing the formation of	he appliance).
Make-up Fan cfm	X 1.08 X (34° F –	°F Winter Desi	gn Temp your location)	=(kw)
		3412 BTUH/kw		Duct Heater
ii) Transfer Grill Required: iii) Additional Tempering F how make-up air will F	Required per 9.32.4.1.(be further tempered to	4)(b) before transfer to o at least 54°F (12°C)	o occupied area: Show ca	alculation and describe
Make-up Fa	ancfm x 1.08 x			at from unoccupied area
	3412 BTUH		1	ed to raise temp by 20°F
Tempered by: OR b) Active Make-up Air d be tempered to at least Make-up Fan cfm	lelivered to an Occup 54°F (12°C). x 1.08 x (54° F –	ied Area: Tempering		=(kw)
	341	12 BTUH/kw		Duct Heater

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