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 bedroom is a room with an openable window (minimum dimensions apply), a			
Total Floor area of living space	ft <sup>2</sup> (B)	closet and a closing interior door.		
Total Interior Volume of Dwelling	ft <sup>3</sup>	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 Exhaust Fan Mi	nimum Air-flow I	Rate		
Use the bedroom count from Box (A) and Total squa determine Minimum Required Prinicpal Exhaust S		x (B) above and Table 9.32.3.5. to		
2. Principal System Fan Choice				
a) Exhaust Fan continuous running Make	Model	Sone Rating		
Location:	Capacity at 0.2 ESP If CEV, capac	$cfm$ (E) Must be $\geq$ than Box (D)		
3. Fan Duct Size and Equivalent Length	II CE V, Capac.	ity wo.+Lot		
<ul> <li>a) Installed Equivalent Length: Length of ductft + Ext. hood 30 ft + (b) Choose type of duct:</li> </ul>	Flex duct	or Rigid (smooth) duct		
c) Duct size required to flow Box E cfm through B Use Table 9.32.3.8 (3) to determine duct size.		in Ø		
4. Required Kitchen and Bathroom Exhaust Fa	ns: Re-list below i	f Principal Exhaust Fan meets all or		

part of Kitchen/Bathroom spot Exhaust requirements. EXHAUST EQUIPMENT REOURED Exhaust Ex.Fan/CEV Spot Exhaust Kitchen & Bath WALL/CEILING FANS Rate Principal \*Duct Sizing per Table 9.32.3.8.(3) CFM Fan Make & Model Table ROOM @ 0.2 ESP Duct Dia (in Ø) Max. Equiv. Installed Equiv. System CFM 9.32.3.6 Manf. Length per Length rigid flex Rated table

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

\* For fan capacities exceeding 175cm in Table 9.52.5.8(5), follow manufacturers 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

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<ul> <li>5. Fresh Air must be ducted from outside to Return Air of Forced Air Heat</li> <li>a) Ventilation air duct is connected not more than 15ft, nor less than 10ft upstream of t device is used.</li> <li>b) Duct Size for Fresh Air intake to RA. Choose one.</li> <li>Rigid Duct: 4" Ø minimum, must be insulated &amp; vapour barriered for full length. Of Flex Duct: 5"Ø minimum, must be insulated &amp; vapour barriered for full length.</li> </ul>	he heating appliance, unless a flow control
6. Forced Air Heating System is ducted to supply air to every bedroom and	l any level without a bedroom.
<ul> <li>7. If Heated Crawlspace present, (Choose one)</li> <li>Minimum of one RA grille located in the crawlspace, OR</li> <li>No RA grille in crawlspace, choose ventilation Option 1, 2, or 3 per sentence</li> </ul>	
MAKE-UP AIR Requirements 1. NAFFVA (Naturally Aspirated Fuel Fired Vented Appliance) or radon present No, Omit Steps 2 & 3 Yes, Proceed to Step 2	in dwelling unit? (per Sentence 9.32.4.1)
<ul> <li>2. Exhaust Appliance present which exceeds Box C 0.5 ACH:</li> <li>No such appliance. Omit Step 3</li> <li>Yes, Commit to Depressurization Test (See CAUTION, TECA Vent Manual p</li> <li>Yes, Proceed to Step 3</li> </ul>	g 24)
	e Actual Installed Cfm Make-up Air Fan Cfm
Duct diameterinches	
Fan Location Fan ducted to a) Active Make-up Air delivered to an Unoccupied Area first (not directly to red 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) b	efore entering unoccupied area.
Make-up Fan cfm X 1.08 X ( <b>34°</b> F – °F Winter Design Temp 3412 BTUH/kw	(kw)
<ul> <li>ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill si</li> <li>iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupi</li> <li>how make-up air will be further tempered to at least 54°F (12°C).</li> </ul>	ed area: Show calculation and <b>describe</b>
Make-up Fancfm x 1.08 x (54° F $- 34°$ F) =	(kw) Heat from unoccupied area
3412 BTUH/kw	required to raise temp by 20°F
Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Requine be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F – °F Winter Design Temp	$\frac{1}{2}$ your location) = (kw)
3412 BTUH/kw	Duct Heater
	© March 2015 TECA All Rights Reserved
<b>Installer Certification:</b> 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 Checklist 1, page2of2	

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# 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	1	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 <sup>2</sup> (B)	closet and a closing interior door.
Total Interior Volume of Dwelling	ft <sup>3</sup>	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 total square footage (Box B above) to determine the minimum principal Air Flow rate required by Table 9.32.3.5

	Minimum Required Rate	¢IIII	[ (D)
2. HRV Make	Model		
3. HRV Capacity: CFM @ 0.4	<b>ESP.</b> 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 exhuast requirements list below.

	REQUIRED	EXHAUST EQUIPMENT						
	Exhaust	Spot Exh	HRV					
ROOM RATE 9.32.3.6	Fan Make & Model CFM @ 0.2 ESP Manf. Rated	@ 0.2 ESP	@ 0.2 ESP Manf Duct Dia (in Ø) Max. Equiv. Installed Ec		@ 0.2 ESP Duct Dia (in Ø) Max. Eq		Installed Equiv.	Principal System CFM
		rigid	flex	Length per table				
					7			
on fan aan		ling 175cfm in Table 9	32 3 8(3)	follow	manufa	cturer's	TOTAL (must =	

\* 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* 

(must = Box E)

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

6. HRV Fresh Air Distribution (Choose a or b)	
a) Supply Air from HRV direct connect to Return Air of a Fo	rced Air Heating System:
A FA system fan and HRV fan continuous operation and	
☐ FA system ducted to supply air to every bedroom and each floor □	evel without a bedroom
b) Supply Air from HRV distributed independently	
Ducted to every bedroom and each floor level without a bedroom	and
$\square$ HRV fan continuous operation	
7. If Heated Crawlspace present, (Choose one)	
Minimum of one Forced Air System RA grille located in the crawlspace, OR	
$\boxed{No}$ RA grille in crawlspace, choose ventilation Option 1, 2, or 3 per sentence	9.37.3.7 (2)
MAKE-UP AIR Requirements	
1. NAFFVA (Naturally Aspirated Fuel Fired Vented Appliance) or radon presen	t 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	24)
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)	ce Actual Installed Cfm
Duct diameter inches	
Fan Location Fan ducted to a) Active Make-up Air delivered to an Unoccupied Area first (not directly to a	coom containing the appliance).
i) Tempering Required per 9.32.4.1.(4)(a):	com containing the apprairee).
Show calculation how make-up air will be tempered to at least 34°F (1°C)	before entering unoccupied area.
	n your location) (1)
Make-up Fan cfmX 1.08 X ( <b>34°</b> F – °F Winter Design Tem	$\frac{1}{2} = \frac{1}{2} (kw)$
3412 BTUH/kw	Duct Heater
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill	Duct Heater
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occur	Duct Heater
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup how make-up air will be further tempered to at least 54°F (12°C).	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b>
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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) =	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b>
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by:	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Requ	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required be tempered to at least 54°F (12°C).	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F <b>ired.</b> Show calculation how make-up air will
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Tempered	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F <b>ired.</b> Show calculation how make-up air will ap your location) =(kw)
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required be tempered to at least 54°F (12°C).	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F <b>ired.</b> Show calculation how make-up air will
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Tem 3412 BTUH/kw @ March 2015 TECA All Rights Reserved	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F <b>ired.</b> Show calculation how make-up air will hp your location) =(kw) Duct Heater
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occur 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Tem 3412 BTUH/kw	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F <b>ired.</b> Show calculation how make-up air will ap your location) =(kw)
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Tem 3412 BTUH/kw <sup>©</sup> March 2015 TECA All Rights Reserved Installer Certification:	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F ired. Show calculation how make-up air will hp your location) =(kw) Duct Heater 2012 TECA Ventilation
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Tem 3412 BTUH/kw © March 2015 TECA All Rights Reserved 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.	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F ired. Show calculation how make-up air will hp your location) =(kw) Duct Heater 2012 TECA Ventilation
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Requ be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F °F Winter Design Tem 3412 BTUH/kw @ March 2015 TECA All Rights Reserved Installer Certification: I hereby certify that the design and installation of the ventilation system	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F ired. Show calculation how make-up air will hp your location) =(kw) Duct Heater 2012 TECA Ventilation
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Requires be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Tem 3412 BTUH/kw © March 2015 TECA All Rights Reserved 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. Date	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F ired. Show calculation how make-up air will hp your location) =(kw) Duct Heater 2012 TECA Ventilation
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Tem 3412 BTUH/kw © March 2015 TECA All Rights Reserved 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.	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F ired. Show calculation how make-up air will hp your location) =(kw) Duct Heater 2012 TECA Ventilation
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F – °F Winter Design Tem 3412 BTUH/kw © March 2015 TECA All Rights Reserved 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. Date Print Name	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F ired. Show calculation how make-up air will hp your location) =(kw) Duct Heater 2012 TECA Ventilation
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Requires be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Tem 3412 BTUH/kw © March 2015 TECA All Rights Reserved 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. Date	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F ired. Show calculation how make-up air will hp your location) =(kw) Duct Heater 2012 TECA Ventilation
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F – °F Winter Design Tem 3412 BTUH/kw © March 2015 TECA All Rights Reserved 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. Date Print Name	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F ired. Show calculation how make-up air will hp your location) =(kw) Duct Heater 2012 TECA Ventilation
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occur 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F –°F Winter Design Ten @ March 2015 TECA All Rights Reserved 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. Date Print Name Signature	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F ired. Show calculation how make-up air will hp your location) =(kw) Duct Heater 2012 TECA Ventilation
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occup 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 Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempering Requires be tempered to at least 54°F (12°C). Make-up Fan cfmx 1.08 x (54° F°F Winter Design Tem 3412 BTUH/kw @ March 2015 TECA All Rights Reserved 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. Date Print Name Signature	Duct Heater sizesq. in. Location pied area: Show calculation and <b>describe</b> (kw) Heat from unoccupied area required to raise temp by 20°F ired. Show calculation how make-up air will hp your location) =(kw) Duct Heater 2012 TECA Ventilation

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### **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 Floor area of living space	$ft^2$ (B) closet and a closing interior door.
Total Interior Volume of Dwelling	Total volume includes all heated interior spaces (including crawlspace if heated).
.5 ACH (air changes/hr) = Volume x $0.5 \div 60 =$	Exhaust appliances exceeding (C) .5 ACH may require make-up air.
1. Principal Ventilation System Exhaust Fan Mi	nimum Air-flow Rate
	are footage from Box (B) above and Table 9.32.3.5. to
determine	
Minimum Required Prinicpal Exhaust S	ystem Capacity cfm (D)
2. Principal System Fan Choice	
a) Exhaust Fan continuous running Make	ModelSone Rating
<i>,</i>	Capacity
Location:	<b>at 0.2 ESP</b> $cfm$ (E) Must be $\geq$ than Box (D)
	If CEV, capacity @0.4ESP
3. Fan Duct Size and Equivalent Length	
a) Installed Equivalent Length:	
Length of ductft + Ext. hood $30 \text{ ft}$ + (_	#  elbows at 10 ft each = = ft (F)
b) Choose type of duct:	Flex duct $\Box$ or Rigid (smooth) duct $\Box$
c) Duct size required to flow Box E cfm through Use Table 9.32.3.8 (3) to determine duct size	

**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						
ROOM Exhaust Rate <b>J.32.3.6</b>	Spot Exh	Ex.Fan/CEV						
		Table         Fan Make & Model         CFM	@ 0.2 ESP			per Table 9.32.3.8.(3)		Principal
	9.32.3.6			Duct D	(m v)	Max. Equiv. Length per	Installed Equiv.	System CFM
			rigid	flex	table	Length		
			_					
			_					
* Ear fan aar	anitias aveau	ding 175cfm in Table 9	32 3 8(3)	follow	manufa	cturer <sup>i</sup> s	TOTAL	

\* 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 3, pg1of2

### 5. CRV Fresh Air Intake & Mixing Fan (Choose a or b)

b) Box F CFM is minimum 3 times Box E for less than +5°F w	armer winter design temperature. vinter design temperature.
Make Model	Capacity @
c) Duct Size for Fresh Air intake into return air of CRV:	0.4 ESP cfm (F)
Min 4"Ø rigid duct, must be insulated & vapour barriered for ful	
Min 5"Ø, flex duct, must be insulated & vapour barriered for ful	l length,
<b>6.</b> CRV Fresh Air Circulation (Choose a or b)	
a) Draw air from bedrooms and Supply air to common area.	
b) Draw air from common area and Supply air to bedrooms.	
7. If Heated Crawlspace present	
Choose ventilation option 1, 2, or 3 per sentence 9.37.3.7 (2). <b>MAKE-UP AIR Requirements</b>	
1. NAFFVA (Naturally Aspirated Fuel Fired Vented Appliance) or	radon 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:	0
<b>No such appliance</b> . 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	)
Ext I wanted Ext	haust Appliance Actual Installed Cfm
Fan Make Model	Make-up Air Fan Cfm
Duct diameterinches	
Fan Location Fan ducted	to
a) Active Make-up Air delivered to an Unoccupied Area first (1	not directly to room containing the appliance).
i) Tempering Required per 9.32.4.1.(4)(a):	CADE (10C) 1. Comparing supported area
Show calculation how make-up air will be tempered to at lea	ast 34°F (1°C) before entering unoccupied area.
Make-up Fan cfm X 1.08 X ( <b>34°</b> F – °F Win	
	ter Design Temp your location) = (kw)
3412 BTUH/	kw Duct Heater
3412 BTUH/	kw Duct Heater Transfer grill sizesq. in. Location
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm iii) Additional Tempering Required per 9.32.4.1.(4)(b) before tr	kw       Duct Heater         : Transfer grill sizesq. in. Location         ransfer to occupied area: Show calculation and describe
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before tr how make-up air will be further tempered to at least 54°F	kw       Duct Heater         a Transfer grill size sq. in. Location         cransfer to occupied area: Show calculation and describe         F (12°C).
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before tr how make-up air will be further tempered to at least 54°F	kw       Duct Heater         a Transfer grill size sq. in. Location         cransfer to occupied area: Show calculation and describe         F (12°C).
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before the how make-up air will be further tempered to at least 54°F Make-up Fancfm x 1.08 x (54° F - 34°	kwDuct Heater: Transfer grill sizesq. in. Location: ransfer to occupied area: Show calculation and <b>describe</b> : $F(12^{\circ}C)$ .: F) =(kw) Heat from unoccupied area
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before tr how make-up air will be further tempered to at least 54°F	kw       Duct Heater         a Transfer grill size sq. in. Location         cransfer to occupied area: Show calculation and describe         F (12°C).
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before the how make-up air will be further tempered to at least 54°F Make-up Fancfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by:	kw       Duct Heater         arransfer grill sizesq. in. Location         ransfer to occupied area: Show calculation and describe         7 (12°C).         F)       =(kw) Heat from unoccupied area         required to raise temp by 20°F
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before tr how make-up air will be further tempered to at least 54°F Make-up Fancfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tem	kw       Duct Heater         arransfer grill sizesq. in. Location         ransfer to occupied area: Show calculation and describe         7 (12°C).         F)       =(kw) Heat from unoccupied area         required to raise temp by 20°F
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before tr how make-up air will be further tempered to at least 54°F Make-up Fancfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Ten be tempered to at least 54°F (12°C).	kw       Duct Heater         arransfer grill sizesq. in. Location         cransfer to occupied area: Show calculation and describe         G (12°C).         F)       =(kw) Heat from unoccupied area         required to raise temp by 20°F         mpering Required. Show calculation how make-up air will
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before tr how make-up air will be further tempered to at least 54°F Make-up Fancfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tem	kw       Duct Heater         arransfer grill sizesq. in. Location         ransfer to occupied area: Show calculation and describe         f (12°C).         F)       =(kw) Heat from unoccupied area         required to raise temp by 20°F         mpering Required. Show calculation how make-up air will         ter Design Temp your location)       =(kw)
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before tr how make-up air will be further tempered to at least 54°F Make-up Fancfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Ten be tempered to at least 54°F (12°C).	kw       Duct Heater         arransfer grill sizesq. in. Location         cransfer to occupied area: Show calculation and describe         G (12°C).         F)       =(kw) Heat from unoccupied area         required to raise temp by 20°F         mpering Required. Show calculation how make-up air will
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before the how make-up air will be further tempered to at least 54°F Make-up Fan cfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tem- be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F °F Win © March 2015 TECA All Rights Reserved 3412 BTUH/kw	kw       Duct Heater         arransfer grill sizesq. in. Location         ransfer to occupied area: Show calculation and describe         f (12°C).         F)       =(kw) Heat from unoccupied area         required to raise temp by 20°F         mpering Required. Show calculation how make-up air will         ter Design Temp your location)       =(kw)
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before th how make-up air will be further tempered to at least 54°F Make-up Fan cfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tem be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F °F Win © March 2015 TECA All Rights Reserved 3412 BTUH/kw Installer Certification:	kw       Duct Heater         arransfer grill sizesq. in. Location         cransfer to occupied area: Show calculation and describe         7 (12°C).         F)       =(kw) Heat from unoccupied area         required to raise temp by 20°F         mpering Required. Show calculation how make-up air will         ter Design Temp your location)       =(kw)         Duct Heater         2012 TECA Ventilation
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before th how make-up air will be further tempered to at least 54°F Make-up Fan cfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Ten- be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F °F Win © March 2015 TECA All Rights Reserved 3412 BTUH/kw Installer Certification: I hereby certify that the design and installation of the ventilation s	kw       Duct Heater         arransfer grill sizesq. in. Location
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before th how make-up air will be further tempered to at least 54°F Make-up Fan cfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tem be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F °F Win © March 2015 TECA All Rights Reserved 3412 BTUH/kw Installer Certification:	kw       Duct Heater         arransfer grill sizesq. in. Location
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before the how make-up air will be further tempered to at least 54°F Make-up Fancfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tem- be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Win © March 2015 TECA All Rights Reserved 3412 BTUH/kw Installer Certification: I hereby certify that the design and installation of the ventilation s complies with the 2012 B.C. Building Code, 2014 Section 9.32 Ar	kw       Duct Heater         arransfer grill sizesq. in. Location
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before th how make-up air will be further tempered to at least 54°F Make-up Fan cfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Ten- be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F °F Win © March 2015 TECA All Rights Reserved 3412 BTUH/kw Installer Certification: I hereby certify that the design and installation of the ventilation s	kw       Duct Heater         arransfer grill sizesq. in. Location
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3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before the how make-up air will be further tempered to at least 54°F Make-up Fancfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tem- be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Win © March 2015 TECA All Rights Reserved 3412 BTUH/kw Installer Certification: I hereby certify that the design and installation of the ventilation s complies with the 2012 B.C. Building Code, 2014 Section 9.32 Ar	kw       Duct Heater         arransfer grill sizesq. in. Location         ransfer to occupied area: Show calculation and describe         7 (12°C).         'F)       =(kw) Heat from unoccupied area         required to raise temp by 20°F         mpering Required. Show calculation how make-up air will         ter Design Temp your location)       =(kw)         Duct Heater         2012 TECA Ventilation         ystem         mendment.
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3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before tr how make-up air will be further tempered to at least 54°F Make-up Fan cfm x 1.08 x (54° F – 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Ten- be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F – °F Win © March 2015 TECA All Rights Reserved 3412 BTUH/kw Installer Certification: I hereby certify that the design and installation of the ventilation s complies with the 2012 B.C. Building Code, 2014 Section 9.32 A: Date Print Name Signature	kw       Duct Heater         arransfer grill sizesq. in. Location
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before tr how make-up air will be further tempered to at least 54°F Make-up Fancfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Ter be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F °F Win © March 2015 TECA All Rights Reserved 3412 BTUH/kw Installer Certification: I hereby certify that the design and installation of the ventilation s complies with the 2012 B.C. Building Code, 2014 Section 9.32 A: Date Print Name	kw       Duct Heater         arransfer grill sizesq. in. Location
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before the how make-up air will be further tempered to at least 54°F Make-up Fancfm x 1.08 x (54° F - 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Win © March 2015 TECA All Rights Reserved 3412 BTUH/kw Installer Certification: I hereby certify that the design and installation of the ventilation s complies with the 2012 B.C. Building Code, 2014 Section 9.32 A: Date Print Name Signature	kw       Duct Heater         arransfer grill sizesq. in. Location
3412 BTUH/ ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: iii) Additional Tempering Required per 9.32.4.1.(4)(b) before tr how make-up air will be further tempered to at least 54°F Make-up Fan cfm x 1.08 x (54° F – 34° 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Ten- be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F – °F Win © March 2015 TECA All Rights Reserved 3412 BTUH/kw Installer Certification: I hereby certify that the design and installation of the ventilation s complies with the 2012 B.C. Building Code, 2014 Section 9.32 A: Date Print Name Signature	kw       Duct Heater         aransfer grill sizesq. in. Location

**4** Ventilation Checklist 4–

## 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 coastal climate areas where winter design temperature is warmer than or equal to +14°F.

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 <sup>2</sup> (B)	closet and a closing interior door.
Total Interior Volume of Dwelling	ft <sup>3</sup>	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 Exhaust Fan Min Use the bedroom count from Box (A) and Total squa determine Minimum Required Prinicpal Exhaust Systems	re footage from Box	
	ystem Capacity	
<ul><li>2. Principal System Fan Choice</li><li>a) Exhaust Fan continuous running Make</li></ul>		Sone Rating
Location:	Capacity at 0.2 ESP	$cfm$ (E) Must be $\geq$ than Box (D)
3. Fan Duct Size and Equivalent Length	If CEV, capacit	ty @0.4ESP
a) Installed Equivalent Length: Length of ductft + Ext. hood <b>30 ft</b> + (	# elbows at 10	ft each =) = $ft$ (F)
b) Choose type of duct:		or Rigid (smooth) duct
c) Duct size required to flow Box E cfm through Use Table 9.32.3.8 (3) to determine duct size.		length of duct = $in \emptyset$

**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	Exhaust Spot Exhaust Kitchen & Bath WALL/CEILING FANS					FANS	Ex.Fan/CEV
ROOM	Table	Fan Make & Model	CFM @ 0.2 ESP		110010-0010-001	per Table Max. Equiv.	9.32.3.8.(3)	Principal System CFM
	9.32.3.6		Mańf. Rated	Duct D rigid	flex	Length per table	Installed Equiv. Length	System CFM
* For fan capa	acities excee	eding 175cfm in Table 9.3	32.3.8(3),	follow r	nanufa	cturer's	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

<ul> <li>5. Required Inlets for passive Ventilation Air Supply</li> <li>a) High wall installation (minimum 6 ft above floor)</li> <li>b) Located in each bedroom and at least one common area</li> <li>c) Inlet Free Area greater than or equal to 4 Sq In</li> </ul>	
<ul> <li>6. If Heated Crawlspace present</li> <li>Choose ventilation option 1, 2, or 3 per sentence 9.37.3.7 (2).</li> </ul>	
<ul> <li>MAKE-UP AIR Requirements</li> <li>1. NAFFVA (Naturally Aspirated Fuel Fired Vented Appliance) or radon present in</li> <li>No, Omit Steps 2 &amp; 3</li> <li>Yes, Proceed to Step 2</li> </ul>	dwelling unit? (per Sentence 9.32.4.1)
<ul> <li>2. Exhaust Appliance present which exceeds Box C 0.5 ACH:</li> <li>No such appliance. Omit Step 3</li> <li>Yes, Commit to Depressurization Test (See CAUTION, TECA Vent Manual pg 2)</li> <li>Yes, Proceed to Step 3</li> </ul>	24)
	Actual Installed Cfm ake-up Air Fan Cfm
Duct diameterinches	
Fan Location Fan ducted to a) Active Make-up Air delivered to an Unoccupied Area first (not directly to room 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) bef	ore entering unoccupied area.
Make-up Fan cfm X 1.08 X ( <b>34°</b> F – °F Winter Design Temp y 3412 BTUH/kw	vour location) = (kw)
<ul> <li>3412 BTUH/kw</li> <li>ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill size iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupied 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</li> <li>Tempered by:</li> </ul>	esq. in. Location d area: Show calculation and <b>describe</b>
OR b) Active Make-up Air delivered to an Occupied Area: Tempering Requires be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F –°F Winter Design Temp y 3412 BTUH/kw	
	© March 2015 TECA All Rights Reserved
<b>Installer Certification:</b> 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 Checklist 4, pg2 of 2	
Checklist 4, pg2 of 2	

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