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.

	ess				_		Permit No.	
Climate Zo	one:	Number of Bedroom	s		(A)	window (minimum dimensions closet and a closing interior door.		ensions apply),
	Total F	Floor area of living spac	e	ft	2 (B)			or ador.
	Total Inte	rior Volume of Dwelling	g	ft	3		ume includes a cluding crawlsp	Il heated interionated interionated if heated).
.5 ACH (ai	r changes/hr	$) = \text{Volume x } 0.5 \div 60 =$	=	cfir	(C)	Exhaust a		
. Principal	Ventilation	System Exhaust Fan I	Minimu	m Air-	flow F	Rate		
		From Box (A) and Total so					e and Table 9	9.32.3.5. to
	mum Requi	ired Prinicpal Exhaust	Systen	ı Capa	city		cfm ((D)
. Principal	System Far	Choice				L		
a) Exhaust	Fan continu	ious running Make			Aodel_		Son	e Rating
v				Capaci at 0.2 I			fm (E) Mu	st be ≥ than Box (
Location:		W				ty @0.4ES		at de ≤ man dox (i
. Fan Duct	Size and Ed	quivalent Length		,	F	.,		
	d Equivalent	_					ſ	1
		_ft + Ext. hood 30 ft +	(#	elbows	at 10	ft each =) =	ft (F)
b) Choose			·——					
	TYDE OF UUCI			Flex	duct [or Rig	gid (smooth)	duct
Duct size i			Box F	Flex	duct [or Rig	gid (smooth)	duct [
	required to fl	: low Box E cfm through (3) to determine duct siz		Flex	duct [or Rig	gid (smooth)	ductin Ø
Use Tab . Required	required to flole 9.32.3.8 (Kitchen and	low Box E cfm through	e. ans: Re	Flex equival	duct [ent len	or Rig	gid (smooth) ct = [in Ø
Use Tab . Required	required to flole 9.32.3.8 (Kitchen and en/Bathroom REQUIRED	low Box E cfm through (3) to determine duct size (3) description of the content	e. ans: Re	Flex equivale	duct [ent len	or Rig	gid (smooth) ct = [in Ø
Use Tab . Required	required to flole 9.32.3.8 (Kitchen and en/Bathroom Required Exhaust	low Box E cfm through (3) to determine duct size (3) description of the content	e, 'ans: Re ents. XHAUST	Flex equival e-list be EQUII	duct [ent lent lent lent lent lent lent lent l	☐ or Rig	gid (smooth) ct = [I Exhaust Fa	in Ø
Use Tab . Required art of Kitche	required to flole 9.32.3.8 (Kitchen and en/Bathroom REQUIRED	low Box E cfm through (3) to determine duct size (3) to determine duct size (4) Bathroom Exhaust Foundation (5) Exhaust requirem (6) Exhaust requirem	ce. Cans: Recents. XHAUST St Kitcher	Flex equivalents be EQUII a & Bath	duct [ent len elow if PMENT WALL	or Riggth of du Principa	gid (smooth) ct = [I Exhaust Fa FANS 9.32.3.8.(3)	in Ø in M in M Ex.Fan/CE Principal
Use Tab . Required	required to fole 9.32.3.8 (Kitchen and en/Bathroom Required Exhaust Rate	low Box E cfm through (3) to determine duct size (3) to determine duct size (4) Bathroom Exhaust Four the Exhaust requirem (5) Exhaust	ce. Cans: Reents. XHAUST St Kitcher CFM @ 0.2 ESP Monf.	Flex equivale - list be EQUII a & Bath	duct [ent len elow if PMENT WALL t Sizing	or Rigingth of du Principal CEILING per Table Max. Equiv.	gid (smooth) ct = [I Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø in M in Ex.Fan/CE
Use Tab . Required art of Kitche	required to fole 9.32.3.8 (Kitchen and en/Bathroom Required Exhaust Rate Table	low Box E cfm through (3) to determine duct size (3) to determine duct size (4) Bathroom Exhaust Four the Exhaust requirem (5) Exhaust	ce. Cans: Recents. XHAUST St Kitcher CFM @ 0.2 ESP	Flex equivale - list be EQUII a & Bath	duct [ent len elow if PMENT WALL t Sizing	or Riggth of du Principa	gid (smooth) ct = [I Exhaust Fa FANS 9.32.3.8.(3)	in Ø in M in M Ex.Fan/CE Principal
Use Tab . Required art of Kitche	required to fole 9.32.3.8 (Kitchen and en/Bathroom Required Exhaust Rate Table	low Box E cfm through (3) to determine duct size (3) to determine duct size (4) Bathroom Exhaust Four the Exhaust requirem (5) Exhaust	ce. Cans: Reents. XHAUST St Kitcher CFM @ 0.2 ESP Monf.	Flex equivale - list be EQUII a & Bath	duct [ent len elow if PMENT WALL t Sizing	or Riggth of du Principa CEILING per Table Max. Equiv. Length per	gid (smooth) ct = [I Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø in M in M Ex.Fan/CE Principal
Use Tab . Required art of Kitche	required to fole 9.32.3.8 (Kitchen and en/Bathroom Required Exhaust Rate Table	low Box E cfm through (3) to determine duct size (3) to determine duct size (4) Bathroom Exhaust Four the Exhaust requirem (5) Exhaust	ce. Cans: Reents. XHAUST St Kitcher CFM @ 0.2 ESP Monf.	Flex equivale - list be EQUII a & Bath	duct [ent len elow if PMENT WALL t Sizing	or Riggth of du Principa CEILING per Table Max. Equiv. Length per	gid (smooth) ct = [I Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø in M in M Ex.Fan/CE Principal
Use Tab . Required art of Kitche	required to fole 9.32.3.8 (Kitchen and en/Bathroom Required Exhaust Rate Table	low Box E cfm through (3) to determine duct size (3) to determine duct size (4) Bathroom Exhaust Four the Exhaust requirem (5) Exhaust	ce. Cans: Reents. XHAUST St Kitcher CFM @ 0.2 ESP Monf.	Flex equivale - list be EQUII a & Bath	duct [ent len elow if PMENT WALL t Sizing	or Riggth of du Principa CEILING per Table Max. Equiv. Length per	gid (smooth) ct = [I Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø in M in M Ex.Fan/CE Principal
Use Tab . Required art of Kitche	required to fole 9.32.3.8 (Kitchen and en/Bathroom Required Exhaust Rate Table	low Box E cfm through (3) to determine duct size (3) to determine duct size (4) Bathroom Exhaust Four the Exhaust requirem (5) Exhaust	ce. Cans: Reents. XHAUST St Kitcher CFM @ 0.2 ESP Monf.	Flex equivale - list be EQUII a & Bath	duct [ent len elow if PMENT WALL t Sizing	or Riggth of du Principa CEILING per Table Max. Equiv. Length per	gid (smooth) ct = [I Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø in M in M Ex.Fan/CE Principal
Use Tab . Required art of Kitche	required to fole 9.32.3.8 (Kitchen and en/Bathroom Required Exhaust Rate Table	low Box E cfm through (3) to determine duct size (3) to determine duct size (4) Bathroom Exhaust Four the Exhaust requirem (5) Exhaust	ce. Cans: Reents. XHAUST St Kitcher CFM @ 0.2 ESP Monf.	Flex equivale - list be EQUII a & Bath	duct [ent len elow if PMENT WALL t Sizing	or Riggth of du Principa CEILING per Table Max. Equiv. Length per	gid (smooth) ct = [I Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø in M in M Ex.Fan/CE Principal
Use Tab . Required art of Kitche	required to fole 9.32.3.8 (Kitchen and en/Bathroom Required Exhaust Rate Table	low Box E cfm through (3) to determine duct size (3) to determine duct size (4) Bathroom Exhaust Four the Exhaust requirem (5) Exhaust	ce. Cans: Reents. XHAUST St Kitcher CFM @ 0.2 ESP Monf.	Flex equivale - list be EQUII a & Bath	duct [ent len elow if PMENT WALL t Sizing	or Riggth of du Principa CEILING per Table Max. Equiv. Length per	gid (smooth) ct = [I Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø in M in M Ex.Fan/CE Principal
Use Tab . Required art of Kitche	required to fole 9.32.3.8 (Kitchen and en/Bathroom Required Exhaust Rate Table	low Box E cfm through (3) to determine duct size (3) to determine duct size (4) Bathroom Exhaust Four the Exhaust requirem (5) Exhaust	ce. Cans: Reents. XHAUST St Kitcher CFM @ 0.2 ESP Monf.	Flex equivale - list be EQUII a & Bath	duct [ent len elow if PMENT WALL t Sizing	or Riggth of du Principa CEILING per Table Max. Equiv. Length per	gid (smooth) ct = [I Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv. Length	in Ø in M in M Ex.Fan/CE Principal
Use Tab Required art of Kitche ROOM	required to find to be 9.32.3.8 (Kitchen and en/Bathroom Required EXHAUST RATE Table 9.32.3.6	low Box E cfm through (3) to determine duct size (3) to determine duct size (4) Bathroom Exhaust Four the Exhaust requirem (5) Exhaust	CFM (@ 0.2 ESP Manf. Rated)	Flex equivale e-list be E-	elow if PMENT WALL St Sizing a (in Ø) flex	or Rigard of dust Principal CEILING per Table Max. Equiv. Length per table	gid (smooth) ct = [I Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø in M in M Ex.Fan/CE Principal

Removed reference to RADON in Make-up Air Requirements

5. Fresh Air must be ducted from outside to Return Air of Forced Air Hea a) Ventilation air duct is connected not more than 15ft, nor less than 10ft upstream of	ating for distribution. f the heating appliance, unless a flow control
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, felex Duct: 5"Ø minimum, must be insulated & vapour barriered for full length. c) Furnace fan continuous operation. 6. Forced Air Heating System is ducted to supply air to every bedroom an	
7. If Heated Crawlspace present, (Choose one) Minimum of one RA grille located in the crawlspace, OR No RA grille in crawlspace, choose ventilation Option 1, 2, or 3 per sentence	
MAKE-UP AIR Requirements	7.54.5.7 (2)
1. NAFFVA (Naturally Aspirated Fuel Fired Vented Appliance) present in dwelli No, Omit Steps 2 & 3 Yes, Proceed to Step 2	ing unit? (per Sentence 9.32.4.1)
 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 presents) 	og 24)
Yes, Proceed to Step 3	
	e Actual Installed Cfm Make-up Air Fan Cfm
_	Tan om
Fan interconnected with exhaust appliance fan. Fan ducted to a) Active Make-up Air delivered to an Unoccupied Area first (not directly to ro 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) be	om containing the appliance).
Make-up Fan cfm X 1.08 X (34° F °F Winter Design Temp	your location) =(kw)
3412 BTUH/kw	Duct Heater
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill size	ze sq. in. Location
iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupie	ed area: Show calculation and describe
how make-up air will be further tempered to at least 54°F (12°C).	
	(kw) Heat from unoccupied area
3412 BTUH/kw	required to raise temp by 20°F
Tempered by: ———————————————————————————————————	ed. Show calculation how make-up air will
Make-up Fan cfmx 1.08 x (54° F°F Winter Design Temp	your location) =(kw)
3412 BTUH/kw	Duct Heater
Installon Continue	© March 2015 TECA All Rights Reserved
Installer Certification: I hereby certify that the design and installation of the ventilation system	2012 TECA Ventilation
complies with the 2012 B.C. Building Code, 2014 Section 9.32 Amendment.	Certification Stamp
The first of the f	
Date	
Print Name	
Signature	
Company	
Phone	
Checklist 1, page2of2	

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	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. Use the bedroom count (Box A above) and tot	al square foot	tage ((Box B above) to determine the
minimum principal Air Flow rate required by T Minii	able 9.32.3.5 mum Require	d Ra	te cfm (D)
2. HRV Make N	Model		
3. HRV Capacity: CFM @ 0.4 ESP. Box E must me	eet Box D require	ment.	cfm (E)
4. List Exhaust Grilles Locations: 1 minimum @	6 ft or higher	fron	n 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.

ROOM	REQUIRED EXHAUST RATE Table 9.32.3.6	Spot Exh	HRV					
		RATE	CFM *Duct Sizing				Principal	
		WOULD BE THE STATE OF THE STATE	@ 0.2 ESP	Duct Dia (in Ø)		Max. Equiv.	Installed Equiv.	System CFM
				rigid	flex	Length per table	Length	
	-							
			-					
							TOTAL	

6 HDV Funch Air Distribution (Channel 1)	
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:
\square 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 bedroom	and
HRV fan continuous operation	
7. If Heated Crawlspace present, (Choose one) Minimum of one Forced Air System RA grille located in the crawlspace, OR	
No RA grille in crawlspace, choose ventilation Option 1, 2, or 3 per sentence 9	9.32.3.7 (2)
MAKE-UP AIR Requirements	,
1. NAFFVA (Naturally Aspirated Fuel Fired Vented Appliance) present in dwelli	ing 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 p	og 24)
Yes, Proceed to Step 3	
3. Use Active Make-up Air for Exhaust Appliance, (Choose a or b)	A stud Yests Hed Offic
Make-up Air Fan required: Exhaust Applianc Fan Make Model	Make-un Air Fan Cfm
Make-up Air Fan required: Exhaust Applianc Fan Makeinches 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 re	oom 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) b	•
Make-un Fan ofm X 1 08 X (34° F - °F Winter Design Terms	
Transcript an orm A 1,00 A (54 F = I winter Design Temp	your location) =
Make-up Fan cfm X 1.08 X (34° F – °F Winter Design Temp	Duct Heater
3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si	Duct Heater zesq. in. Location
3412 BTUH/kw	Duct Heater zesq. in. Location
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupi how make-up air will be further tempered to at least 54°F (12°C).	Duct Heater zesq. in. Locationed area: Show calculation and describe
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupi how make-up air will be further tempered to at least 54°F (12°C).	Duct Heater zesq. in. Location
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupi 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 zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupi 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 Require	Duct Heater zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupin 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 Require be tempered to at least 54°F (12°C).	Duct Heater zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1 (4)(b) before transfer to occupi 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 Require be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Temp	Duct Heater zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will your location) =(kw)
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupin 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 Require be tempered to at least 54°F (12°C).	Duct Heater zesq. in. Locationed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupie 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 Require be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Temp	Duct Heater zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will your location) =(kw) Duct Heater
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupic 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 Require be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Temp © March 2015 TECA All Rights Reserved Installer Certification: I hereby certify that the design and installation of the ventilation system	Duct Heater zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will your location) =(kw)
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupic 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 Require be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Temp © March 2015 TECA All Rights Reserved Installer Certification:	Duct Heater zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will your location) =(kw) Duct Heater 2012 TECA Ventilation
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupic 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 Require be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Temp © 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 zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will your location) =(kw) Duct Heater 2012 TECA Ventilation
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupil 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 Require be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Temp 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 zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will your location) =(kw) Duct Heater 2012 TECA Ventilation
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupic 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 Require be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Temp © 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 zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will your location) =(kw) Duct Heater 2012 TECA Ventilation
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupie 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 Require be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Temp 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 zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will your location) =(kw) Duct Heater 2012 TECA Ventilation
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupil 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 Require be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Temp 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 zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will your location) =(kw) Duct Heater 2012 TECA Ventilation
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupie 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 Require be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Temp 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 zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will your location) =(kw) Duct Heater 2012 TECA Ventilation
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupin how make-up air wilf 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 Require be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54°F°F Winter Design Temp © 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 Company	Duct Heater zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will your location) =(kw) Duct Heater 2012 TECA Ventilation
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill si iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transfer to occupin 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 Require be tempered to at least 54°F (12°C). Make-up Fan cfm x 1.08 x (54° F°F Winter Design Temp ® 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 zesq. in. Location ed area: Show calculation and describe (kw) Heat from unoccupied area required to raise temp by 20°F ed. Show calculation how make-up air will your location) =(kw) Duct Heater 2012 TECA Ventilation

3

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.

1	ess						Permit No.	F)
Climate Zor	ne:	Number of Bedroor	ns		(A)	window (minimum dime	vith an openable nsions apply), a
	Total I	Floor area of living spa	ce	ft²	(B)	closet and	a closing interio	or door.
	Total Inte	erior Volume of Dwellin	ng	ft³			me includes al	l heated interior ace if heated).
.5 ACH (air	changes/hr	$\Rightarrow \text{ Volume x 0.5 } \div 60$	=		(C)		opliances exceed ay require make	
Use the bed determine	room count	System Exhaust Fan from Box (A) and Total sired Prinicpal Exhaus	square foo	tage from	m Box	ate (B) above		.32.3.5. to
ivillii 2. Principal			it System	Сарас	ity		(Citing (<i>D</i>)
		n Choice uous running Make		M	odel_		Son	e Rating
			(Capacit	- 1			
Location: _				at 0.2 E			(E) Must be≥t	han Box (D)
3. Fan Duct	Size and E	quivalent Length	1	ir CEV, C	арасп	y @0.4ES	or	
a) Installed	l Equivalent	t Length:						(T)
		ft + Ext. hood 30 ft +	- (#	elbows	at 10	ft each =_) = [ft (F)
b) Choose	trung of dua	4 -						1 1
` D			.ah Day	Flex		_	rid (smooth)	duct
	e required t	o flow Box E cfm thro		Flex		_		
Use Tab	te required to le 9.32.3.8	to flow Box E cfm through (3) to determine duct significant to the control of the	ize.	Flex of Fequiva	alent l	ength of	duct =	in Ø
Use Tab 4. Required	te required to the 9.32.3.8 to Kitchen an	o flow Box E cfm through the control of the control	ize. Fans: Re	Flex of Fequiva	alent l	ength of	duct =	in Ø
Use Tab 4. Required	te required to the 9.32.3.8 to Kitchen an	o flow Box E cfm throu (3) to determine duct si d Bathroom Exhaust n spot Exhaust requirer	ize. Fans: Re	Flex of Fequivalents	alent l	ength of	duct =	in Ø
Use Tab 4. Required	ke required to the place of the	o flow Box E cfm through (3) to determine duct sind Bathroom Exhaust m spot Exhaust requires	ize. Fans: Rements. EXHAUST	Flex of Flex o	alent l	ength of	duct = [Exhaust Fa	in Ø
Use Tab 4. Required 1 part of Kitche	te required to the place of the	o flow Box E cfm through (3) to determine duct sind Bathroom Exhaust m spot Exhaust requires	EXHAUST ust Kitcher	Flex of Fequivariants o	alent low if MENT WALL Sizing	Principal	duct = [Exhaust Fa FANS 9.32.3.8.(3)	in Ø an meets all of Ex.Fan/CEV Principal
Use Tab 4. Required	Kitchen an Required to the part of the par	o flow Box E cfm throi (3) to determine duct si d Bathroom Exhaust n spot Exhaust requirer Spot Exha	ize. Fans: Rements. EXHAUST	Flex of Fequivalent Flex of Fequivalent Flex of Flex o	MENT WALL Sizing	Principal	duct = [Exhaust Fa	in Ø in meets all o
Use Tab 4. Required 1 part of Kitche	Kitchen an en/Bathroon Required to the property of the proper	o flow Box E cfm throi (3) to determine duct si d Bathroom Exhaust n spot Exhaust requirer Spot Exha	Fans: Rements. EXHAUST ust Kitcher CFM @ 0.2 ESP Manf.	Flex of Fequivalent Flex of Fequivalent Flex of Flex o	MENT WALL Sizing	Principal /CEILING per Table Max. Equiv. Length per	Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø an meets all of Ex.Fan/CEV Principal
Use Tab 4. Required 1 part of Kitche	Kitchen an en/Bathroon Required to the property of the proper	o flow Box E cfm throi (3) to determine duct si d Bathroom Exhaust n spot Exhaust requirer Spot Exha	Fans: Rements. EXHAUST ust Kitcher CFM @ 0.2 ESP Manf.	Flex of Fequivalent Flex of Fequivalent Flex of Flex o	MENT WALL Sizing	Principal /CEILING per Table Max. Equiv. Length per	Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø an meets all of Ex.Fan/CEV Principal
Use Tab 4. Required 1 part of Kitche	Kitchen an en/Bathroon Required to the property of the proper	o flow Box E cfm throi (3) to determine duct si d Bathroom Exhaust n spot Exhaust requirer Spot Exha	Fans: Rements. EXHAUST ust Kitcher CFM @ 0.2 ESP Manf.	Flex of Fequivalent Flex of Fequivalent Flex of Flex o	MENT WALL Sizing	Principal /CEILING per Table Max. Equiv. Length per	Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø an meets all of Ex.Fan/CEV Principal
Use Tab 4. Required 1 part of Kitche	Kitchen an en/Bathroon Required to the property of the proper	o flow Box E cfm throi (3) to determine duct si d Bathroom Exhaust n spot Exhaust requirer Spot Exha	Fans: Rements. EXHAUST ust Kitcher CFM @ 0.2 ESP Manf.	Flex of Fequivalent Flex of Fequivalent Flex of Flex o	MENT WALL Sizing	Principal /CEILING per Table Max. Equiv. Length per	Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø an meets all of Ex.Fan/CEV Principal
Use Tab 4. Required 1 part of Kitche	Kitchen an en/Bathroon Required to the property of the proper	o flow Box E cfm throi (3) to determine duct si d Bathroom Exhaust n spot Exhaust requirer Spot Exha	Fans: Rements. EXHAUST ust Kitcher CFM @ 0.2 ESP Manf.	Flex of Fequivariants of Fequivariants of Fequivariants of Fequivariants of Flex of Fl	MENT WALL Sizing	Principal /CEILING per Table Max. Equiv. Length per	Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø an meets all of Ex.Fan/CEV Principal
Use Tab 4. Required 1 part of Kitche	Kitchen an en/Bathroon Required to the property of the proper	o flow Box E cfm throi (3) to determine duct si d Bathroom Exhaust n spot Exhaust requirer Spot Exha	Fans: Rements. EXHAUST ust Kitcher CFM @ 0.2 ESP Manf.	Flex of Fequivariants of Fequivariants of Fequivariants of Fequivariants of Flex of Fl	MENT WALL Sizing	Principal /CEILING per Table Max. Equiv. Length per	Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø an meets all of Ex.Fan/CEV Principal
Use Tab 4. Required part of Kitche ROOM	Required to the plant of the pl	o flow Box E cfm throi (3) to determine duct si d Bathroom Exhaust n spot Exhaust requirer Spot Exha	Fans: Rements. EXHAUST ust Kitcher CFM @ 0.2 ESP Manf. Rated	Flex of Fequivalents below the Fequivalent below the Fequivalent below the Fequivalent but Duct Diagrigid	MENT WALL Sizing I (in Ø) flex	Principal /CEILING per Table Max. Equiv. Length per table	Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø an meets all of Ex.Fan/CEV Principal

Removed reference to RADON in Make-up Air Requirements 5. CRV Fresh Air Intake & Mixing Fan (Choose a or b) a) Box G CFM is minimum 2 times Box E cfm for +5°F and warmer winter design temperature. b) Box G CFM is minimum 3 times Box E for less than +5°F winter design temperature. Make_____ Model____ Capacity @ c) Duct Size for Fresh Air intake into return air of CRV: 0.4 ESP cfm (G) Min 4"Ø rigid duct, must be insulated & vapour barriered for full length, OR Min 5"Ø, flex duct, must be insulated & vapour barriered for full length, 6. 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 9.32.3.7 (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) Exhaust Appliance Actual Installed Cfm Make-up Air Fan required: Fan Make _____ Model ____ Make-up Air Fan Cfm ____ 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. X 1.08 X (34° F - ____ °F Winter Design Temp your location) Make-up Fan cfm_ 3412 BTUH/kw ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfin: Transfer grill size ____sq. 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). Make-up Fan _____cfm 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 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) © March 2015 TECA All Rights Reserved Duct Heater 3412 BTUH/kw 2012 TECA Ventilation **Installer Certification:** 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_____

Checklist 3, pg2of2

Phone

4

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

Use this checklist for small (≤ 1800 sqft), single level, non-forced air heated dwellings located in mild coastal & moderate interior climates where winter design temperature is warmer than -4°F.

	ess						Permit No.	
Climate Zone:		Number of Bedroo	ms		(A)	window (minimum dime	vith an openablensions apply),
	Total l	Floor area of living spa	ice	ft²	(B)	closet and	a closing interior	or door.
	Total Inte	erior Volume of Dwelli	ng	ft ²	3		ime includes al cluding crawlspa	I heated interionate if heated).
5 ACH (ai	ir changes/hi	$r) = Volume x 0.5 \div 60$) =		(C)		ppliances exceed ay require make	
Dringinal	Ventilation	System Exhaust Fan	Minimu	ım Air-	flow R	ate		
		from Box (A) and Total					e and Table 9	.32.3.5. to
determine	aroom count	nom box (11) and roun	square ro	orago rre	2011	(2) (100)		
	imum Regu	ired Prinicpal Exhau	st Systen	n Capa	city		cfm (D)
	System Far		· ·	•	•		·	•
_		uous running Make_		Λ	/lodel		Son	e Rating
<i>j</i> Exilaust	ran contin	uous running mako		Capaci			7	• · · · · · · · · · · · · · · · · · · ·
Location:				at 0.2 F	- 1	c	fm (E) мі	ıst be≥than Box (
Locution						y @0.4ES	SP SP	
Fan Duct	Size and E	quivalent Length		· ,	1	,	_	
a) Installe	d Equivalent	t Length:						
		·						_ 1
Length	of duct	_ft + Ext. hood 30 ft	+ (#	elbows	at 10	ft each =) =	ft (F)
Length	of duct type of duc	ft + Ext. hood 30 ft	+ (#	elbows Flex	at 10 duct [ft each = or Rig) = [ft (F)
Length b) Choose	of duct type of duc	ft + Ext. hood 30 ft		Flex	duct [or Rig	gid (smooth)	ft (F)
Length b) Choose c) Duct size	of duct type of duc ze required t	ft + Ext. hood 30 ft - t:	ugh Box	Flex	duct [or Rig	gid (smooth)	ft (F) duct ☐ in Ø
Length b) Choose c) Duct siz Use Tal	of duct type of duc ze required t ble 9.32.3.8	ft + Ext. hood 30 ft - t: o flow Box E cfm thro (3) to determine duct s	ugh Box ize.	Flex F equiv	duct [alent l	or Rig	gid (smooth) duct = [ductin Ø
Length b) Choose c) Duct siz Use Tal Required	of duct type of duc ze required t ble 9.32.3.8 Kitchen an	ft + Ext, hood 30 ft - t: o flow Box E cfm thro (3) to determine duct s d Bathroom Exhaust	ugh Box ize. Fans: Re	Flex F equiv	duct [alent l	or Rig	gid (smooth) duct = [ductin Ø
Length b) Choose c) Duct siz Use Tal Required	of duct type of duc ze required t ble 9.32.3.8 Kitchen an ten/Bathroor	ft + Ext. hood 30 ft - t: to flow Box E cfm thro (3) to determine duct s d Bathroom Exhaust n spot Exhaust require	ugh Box ize. Fans: Ro ments.	Flex F equiv e-list be	duct [alent l	or Rigength of	gid (smooth) duct = [ductin Ø
Length b) Choose c) Duct siz Use Tal Required	of duct type of duc ze required t ble 9.32.3.8 Kitchen an	ft + Ext, hood 30 ft - t: o flow Box E cfm thro (3) to determine duct s d Bathroom Exhaust n spot Exhaust require	ugh Box ize. Fans: Ro ments. EXHAUST	Flex F equiv e-list be	duct [ralent leaders] dow if	or Rig	rid (smooth) duct = [Exhaust Fa	in Ø
Length b) Choose c) Duct siz Use Tal Required	of duct type of duc ze required to ble 9.32.3.8 Kitchen and ten/Bathroom REQUIRED EXHAUST RATE	ft + Ext. hood 30 ft - t: to flow Box E cfm thro (3) to determine duct s d Bathroom Exhaust n spot Exhaust require	ugh Box ize. Fans: Roments. EXHAUST	Flex F equiv e-list be E EQUIF R & Bath	duct [alent l low if PMENT WALL	or Rigength of Principal	id (smooth) duct = Exhaust Fa FANS	in Ø n meets all c Ex.Fan/CE
Length b) Choose c) Duct siz Use Tal Required	of duct type of duc ze required to ble 9.32.3.8 Kitchen and ten/Bathroom Required EXHAUST RATE Table	ft + Ext, hood 30 ft - t: o flow Box E cfm thro (3) to determine duct s d Bathroom Exhaust n spot Exhaust require	ugh Box ize. Fans: Rements. EXHAUST	Flex F equiv e-list be F EQUIF M & Bath *Duc	duct [ralent leadent l	or Rigength of Principal /CEILING	id (smooth) duct = Exhaust Fa FANS 9.32.3.8.(3)	in Ø n meets all c Ex.Fan/CE
Length b) Choose c) Duct siz Use Tal Required rt of Kitch	of duct type of duc ze required to ble 9.32.3.8 Kitchen and ten/Bathroom REQUIRED EXHAUST RATE	ft + Ext. hood 30 ft - t: to flow Box E cfm thro (3) to determine duct s d Bathroom Exhaust n spot Exhaust require	ugh Box ize. Fans: Rements. EXHAUST	Flex F equiv e-list be F EQUIF M & Bath *Duc	duct [ralent leadent l	or Rigength of Principal /CEILING	id (smooth) duct = Exhaust Fa FANS	in Ø n meets all e Ex.Fan/CE
Length b) Choose c) Duct siz Use Tal Required rt of Kitch	of duct type of duc ze required to ble 9.32.3.8 Kitchen and ten/Bathroom Required EXHAUST RATE Table	ft + Ext. hood 30 ft - t: to flow Box E cfm thro (3) to determine duct s d Bathroom Exhaust n spot Exhaust require	ugh Box ize. Fans: Roments. EXHAUST aust Kitcher CFM @ 0.2 ESP Manf.	Flex F equiv e-list be F EQUIF n & Bath *Duct Duct Di	duct [ralent land] How if PMENT WALL t Sizing a (in 0)	or Rig ength of Principal /CEILING per Table Max. Equiv. Length per	id (smooth) duct = Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø n meets all o Ex.Fan/CE
Length b) Choose c) Duct siz Use Tal Required rt of Kitch	of duct type of duc ze required to ble 9.32.3.8 Kitchen and ten/Bathroom Required EXHAUST RATE Table	ft + Ext. hood 30 ft - t: to flow Box E cfm thro (3) to determine duct s d Bathroom Exhaust n spot Exhaust require	ugh Box ize. Fans: Roments. EXHAUST aust Kitcher CFM @ 0.2 ESP Manf.	Flex F equiv e-list be F EQUIF n & Bath *Duct Duct Di	duct [ralent land] How if PMENT WALL t Sizing a (in 0)	or Rig ength of Principal /CEILING per Table Max. Equiv. Length per	id (smooth) duct = Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø n meets all Ex.Fan/CE Principal
Length b) Choose c) Duct siz Use Tal Required art of Kitch	of duct type of duc ze required to ble 9.32.3.8 Kitchen and ten/Bathroom Required EXHAUST RATE Table	ft + Ext. hood 30 ft - t: to flow Box E cfm thro (3) to determine duct s d Bathroom Exhaust n spot Exhaust require	ugh Box ize. Fans: Roments. EXHAUST aust Kitcher CFM @ 0.2 ESP Manf.	Flex F equiv e-list be F EQUIF n & Bath *Duct Duct Di	duct [ralent land] How if PMENT WALL t Sizing a (in 0)	or Rig ength of Principal /CEILING per Table Max. Equiv. Length per	id (smooth) duct = Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø n meets all o Ex.Fan/CE
Length b) Choose c) Duct siz Use Tal Required art of Kitch	of duct type of duc ze required to ble 9.32.3.8 Kitchen and ten/Bathroom Required EXHAUST RATE Table	ft + Ext. hood 30 ft - t: to flow Box E cfm thro (3) to determine duct s d Bathroom Exhaust n spot Exhaust require	ugh Box ize. Fans: Roments. EXHAUST aust Kitcher CFM @ 0.2 ESP Manf.	Flex F equiv e-list be F EQUIF n & Bath *Duct Duct Di	duct [ralent land] How if PMENT WALL t Sizing a (in 0)	or Rig ength of Principal /CEILING per Table Max. Equiv. Length per	id (smooth) duct = Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø n meets all e Ex.Fan/CE
Length b) Choose c) Duct siz Use Tal Required art of Kitch	of duct type of duc ze required to ble 9.32.3.8 Kitchen and ten/Bathroom Required EXHAUST RATE Table	ft + Ext. hood 30 ft - t: to flow Box E cfm thro (3) to determine duct s d Bathroom Exhaust n spot Exhaust require	ugh Box ize. Fans: Roments. EXHAUST aust Kitcher CFM @ 0.2 ESP Manf.	Flex F equiv e-list be F EQUIF n & Bath *Duct Duct Di	duct [ralent land] How if PMENT WALL t Sizing a (in 0)	or Rig ength of Principal /CEILING per Table Max. Equiv. Length per	id (smooth) duct = Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø n meets all c Ex.Fan/CE
Length b) Choose c) Duct siz Use Tal Required art of Kitch	of duct e type of duc ze required to ble 9.32.3.8 Kitchen an ten/Bathroon Required EXHAUST RATE Table 9.32.3.6	ft + Ext. hood 30 ft - t: to flow Box E cfm thro (3) to determine duct s d Bathroom Exhaust n spot Exhaust require	ugh Box ize. Fans: Rements. EXHAUST ust Kitcher CFM @ 0.2 ESP Manf. Rated	Flex F equiv e-list be r EQUIF n & Bath *Duct Di rigid	duct lalent lale	or Rig ength of Principal /CEILING per Table Max. Equiv. Length per table	id (smooth) duct = Exhaust Fa FANS 9.32.3.8.(3) Installed Equiv.	in Ø n meets all Ex.Fan/CE Principal

Removed reference to RADON in Make-up Air Kequirements	
 5. Required Inlets for passive Ventilation Air Supply a) High wall installation (minimum 6 ft above floor) b) Located in each bedroom and at least one common area 	
c) Inlet Free Area greater than or equal to 4 Sq In	
6. If Heated Crawlspace present 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 No, Omit Steps 2 & 3 Yes, Proceed to Step 2	g unit? (per Sentence 9.32.4.1)
 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 Yes, Proceed to Step 3 	24)
3. Use Active Make-up Air for Exhaust Appliance. (Choose a or b) Make-up Air Fan required: Exhaust Appliance Model Model	Actual Installed Cfm lake-up Air Fan Cfm
Duct diameterinches Fan Location	
a) Active Make-up Air delivered to an Unoccupied Area first (not directly to roo 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 the control of the control	m containing the appliance). Fore entering unoccupied area.
Make-up Fan cfm X 1.08 X (34° F – °F Winter Design Temp)	$\frac{\text{your location})}{\text{Duct Heater}} = \frac{\text{(kw)}}{\text{Duct Heater}}$
 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). 	esq. in. Location d area: Show calculation and describe
Make-up Fancfm x 1.08 x (54° F $- 34$ °F) =	required to raise temp by 20°F
	required to taise temp by 20 1
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 Temp y	your location) = (kw)
3412 BTUH/kw	Duct Heater
	© 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.	2012 TECA Ventilation Certification Stamp
Date	
Print Name	
Signature	
Company	
Phone Charles A. C. C.	
Checklist 4, pg2 of 2	