1 Ventilation Checklist 1—Forced Air Systems Sentence 9.32.3.4(6)

Use this	Checklist where	forced air heat	ng system duct	s intake and	distribute	ventilation air.
----------	-----------------	-----------------	----------------	--------------	------------	------------------

Civic Addres	SS						Permit No	•		
Climate Zon	windo				window (m	bedroom is a room with an openable rindow (minimum dimensions apply), a loset and a closing interior door.				
	Total I	Floor area of living space		ft²	(B)	closet and a	ior door.			
	Total Inte	rior Volume of Dwelling		ft³		Total volume includes all heated interior spaces (including crawlspace if heated).				
.5 ACH (air	CH (air changes/hr) = Volume x $0.5 \div 60 =$ Exhaust appliance							nces exceeding quire make-up air.		
Use the bedidetermine	room count	System Exhaust Fan M from Box (A) and Total sq ired Prinicpal Exhaust	uare foo	tage fro	m Box			9.32.3.5. to (D)		
2. Principal S	System Fai	n Choice	•	-	-			no Dotino		
a) Exhaust I	an continu	uous running Make			lodel_		So	ne Rating		
Location: _			&	Capacit at 0.2 E	SP	cf y @0.4ES		ust be ≥ than Box (D)		
a) Installed Length (b) Choose (c) Duct size	Equivalen of duct either Flex e required t	ft. + Ext. hood 30 ft duct or Smooth (rigid) d to flow Box E cfm throug	uct gh equiv	alent le	ength (of duct	=	ft in Ø		
	•	iivalent Length Table 9.3	•							
		nd Bathroom Exhaust F m spot Exhaust requirement		-iist be	10W 1f	Principal	Exnaust F	ran meets an or		
	REQUIRED	EZ	XHAUST	EQUIF	MENT					
	EXHAUST RATE	Spot Exhaus						Ex.Fan/CEV		
ROOM	Table 9.32.3.6	Fan Make & Model	CFM @ 0.2 ESP Manf. Rated	Duct Dia (in Ø)		g per Table 9 Max. Equiv. Length per table	9.32.3.8.(3) Installed Equivalenth	Principal System CFM		
Section 1										
*										
N94.										

Box E) © February 2015 TECA All Rights Reserved Checklist 1, pg1of2

TOTAL

(must =

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^{*} 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.

 5. Fresh Air must be ducted from outside to Retu a) Ventilation air duct is connected not more than 15ft, device is used. b) Duct Size for Fresh Air intake to RA. Choose one. Rigid Duct: 4" Ø minimum, must be insulated & vap 	nor less than 10ft upstream of the	
Flex Duct: 5"Ø minimum, must be insulated & vapor	_	
6. Forced Air Heating System is ducted to supply	y air to every bedroom and a	any level without a dedroom.
 7. If Heated Crawlspace present, (Choose one) Minimum of one RA grille located in the crawlspace No RA grille in crawlspace, choose ventilation Op 		37.3.7 (2)
MAKE-UP AIR Requirements 1. NAFFVA (Naturally Aspirated Fuel Fired Vented Application No., Omit Steps 2 & 3 Yes, Proceed to Step 2	ppliance) or radon present i	a dwelling 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 CAUT Yes, Proceed to Step 3		24)
3. Use Active Make-up Air for Exhaust Appliance. (Ch Make-up Air Fan required:		A street Imptalled CSm
Fan Make Model	Exnaust Apphance A	Actual Installed Cfm lake-up Air Fan Cfm
Duct diameter inches	Property A. N. P. Schwart F. P. M. Schwart Frenches M. S. Nobolog P. C. Stombald May.	•
Fan Location	Fan ducted to	
a) Active Make-up Air delivered to an Unoccupie i) Tempering Required per 9.32.4.1.(4)(a): Show calculation & describe how make-up air w	` •	2 1,
ii) Transfer Grill Required: Size 1 sq in of gross	area per 2 cfm:	
Transfer grill size sq. in. I	Location	
iii) Additional Tempering Required per 9.32.4.1. describe how make-up air will be further temp		pied area: Show calculation and
OR b) Active Make-up Air delivered to an Occup how make-up air will be tempered to at least 54°	F (12°C).	red. Show calculation and describe
		© February 2015 TECA All Rights Reserved
Installer Certification: I hereby certify that the design and installation of the v Section 9.32 Amendment.	entilation system complies w	teith the 2012 B.C. Building Code, 2014 Ventilation Certification Stamp
Print Name		
Signature		
Company		
Phone		

2

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 ope window (minimum dimensions appl		
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 in 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		(Box B above) to determine	the	
	num Required Ra	te cfm	(D)	
2. HRV Make N	Aodel			
3. HRV Capacity: CFM @ 0.4 ESP. Box E must meet Box D requirement.				
4. List Exhaust Grilles Locations: 1 minimum @	6 ft or higher from	n 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 Spot Exhaust Kitchen & Bath WALL/CEILING FANS HRV						,
	EXHAUST RATE							HRV
DOOM.	Table	Fan Make & Model	CFM	*Duct Sizing per Table 9.32.				Principal
ROOM	9.32.3.6		i iviani.	Duct D		Max. Equiv. Length per	Installed Equiv.	System CFM
		Rated	rigid	flex	table	Length		
¥								
* For fan capa	cities excee	ding 175cfm in Table 9.	32.3.8(3),	follow 1	⊥ 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 Guidelines Appendix page 16-A

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Box E)

o. HKV Fresh Air Distribution (Choose a or	,
	to Return Air of a Forced Air Heating System:
☐ FA system fan and HRV fan continuous op	
	droom and each floor level without a bedroom
b) Supply Air from HRV distributed ind	
Ducted to every bedroom and each floor le	vel without a bedroom and
HRV fan continuous operation	
7. If Heated Crawlspace present, (Choose	e one)
Minimum of one Forced Air System RA grille locat	
No RA grille in crawlspace, choose ventilation Opti	on 1, 2, or 3 per sentence 9.37.3.7 (2)
MAKE-UP AIR Requirements	
1. NAFFVA (Naturally Aspirated Fuel Fired Vented Ap	opliance) 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 (No such appliance. Omit Step 3	0.5 ACH:
Yes, Commit to Depressurization Test (See CAUT	ION TECA Vent Manual no 24)
Yes, Proceed to Step 3	
3. Use Active Make-up Air for Exhaust Appliance. (Ch	noose a or b)
Make-up Air Fan required:	Exhaust Appliance Actual Installed Cfm
	Make-up Air Fan Cfm
Duct diameterinches	
Fan Location	Fan ducted to
a) Active Make-up Air delivered to an Unoccupie	d Area first (not directly to room containing the appliance).
i) Tempering Required per 9.32.4.1.(4)(a):	ill be tempered to at least 34°F (1°C) before entering unoccupied area.
one we describe now make-up an w.	The occumpered to at least 34 F (1 C) before entering unoccupied area.
ii) Transfer Grill Required: Size 1 sq in of gross a	
	ocation
sq. m.	
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 temp	pered to at least 54°F (12°C).
OR b) Active Make-up Air delivered to an Occupied	Area: Tempering Required. Show calculation and describe
how make-up air will be tempered to at least 54°l	F (12°C).
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T 1 78 00 140	
I hereby certify that the design and installation of the ve	Date
Section 9.32 Amendment.	2012 TECA Ventilation Certification Stamp
Print Name	
Signature	
Company	
	MMERCHANICATION CO. TO THE
Phone	
Checklist 2, pg2of2	

3_v

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.

maxe a		don requirements and a r	rmerpar	Exnau	si ian	meets the	exnaust req	uirements.	
Civic Addre	ess			····			Permit No.		
Climate Zo	ne:	Number of Bedroom	ıs		(A)			vith an openable ensions apply), a	
	Total	Floor area of living space	e	ft	2 (B)	closet and	a closing interior	or door.	
Total Interior Volume of Dwelling					3	Total volume includes all heated interior spaces (including crawlspace if heated).			
.5 ACH (air	r changes/h	$\text{nr}) = \text{Volume x } 0.5 \div 60 =$		cfn		Exhaust appliances exceeding (C) .5 ACH may require make-up air.			
		n System Exhaust Fan Mart From Box (A) and Total so					e and Table 9	.32.3.5. to	
determine		uired Prinicpal Exhaust						D)	
2. Principal	System Fa	ın Choice				<u> </u>			
a) Exhaust :	Fan contir	nuous running Make		N	Model		Son	e Rating	
Locations				Capaci	- ,				
Location:	11.1	The second secon		at 0.2 I	L		(E) Must be ≥ t	than Box (D)	
3. Fan Duct	Size and F	Equivalent Length	j	If CEV,	capaci	ty @0.4ES	SP		
	d Equivaler	-					Γ		
		ft. + Ext. hood 30 ft	t. + (# e	lbows a	at 10 f	t. each =) =	ft	
b) Choose	either Flex	duct or Smooth (rigid) d	luct				/ L		
c) Duct siz	ze required	to flow Box E cfm through	gh equiv	alent l	ength	of duct	=		
Use Ma	ximum Eq	uivalent Length Table 9.3	32.3.8 (3) to de	termin	e duct siz	e.	in Ø	
4. Required	Kitchen aı	nd Bathroom Exhaust F	ans: Re	e-list be	low if	Principal	Exhaust Fa	n meets all or	
part of Kitche	en/Bathroo	m spot Exhaust requirem	ents.			-			
	REQUIRED	E	XHAUST	EQUI	PMENT	[
	EXHAUST RATE	Spot Exhau:					Ex.Fan/CEV		
ROOM	Table	Fan Make & Model	CFM	FM *Duct Sizing			9.32.3.8.(3)	Principal	
	9.32.3.6		@ 0.2 ESP Manf. Rated	Duct Drigid	a (in Ø) flex	Max. Equiv. Length per table	Installed Equiv. Length	System CFM	
								·	
	×								

TOTAL (must = Box E)

See Ventilation Guidelines Appendix page 16-A

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^{*} 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.

5. CRV Fresh Air Intake	& Mixing Fan (Choose a or b)	Capacity @	
Make	Model		cfm (F)
a) Box F CFM is mini b) Box F CFM is mini c) Duct Size for Fresh Min 4"Ø rigid duct, Min 5"Ø, flex duct, 6. CRV Fresh Air Circula a) Draw air from bedro b) Draw air from comn 7. If Heated Crawlspace Choose ventilation opti	mum 2 times Box D cfm for +5°F mum 3 times Box D for less than - Air intake into return air of CRV: must be insulated & vapour barriered in must be insulated & vapour barriered in ation (Choose a or b) oms and Supply air to common are non area and Supply air to bedroom present on 1, 2, or 3 per sentence 9.37.3.7 pirements	and warmer winter design to the state of the	temperature. ture.
No such appliance. O Yes, Commit to Depre	sent which exceeds Box C 0.5 AC mit Step 3 ssurization Test (See CAUTION, T		
Yes, Proceed to Step 3 3. Use Active Makerun Air	for Exhaust Appliance. (Choose a	ou h)	
Make-un Air Fan rean	irad.	Eveloped A	Installed Cfm
Fan Make	Model	Make-u	p Air Fan Cfm
Duct diameter	inches		
i) rempering Kequite	Fan du delivered to an Unoccupied Area d per 9.32.4.1.(4)(a): lescribe how make-up air will be te		
	uired: Size 1 sq in of gross area per		
iii) Additional Tempe	ring Required per 9.32.4.1.(4)(b) be-up air will be further tempered to	efore transfer to occupied are	
OR b) Active Make-up how make-up air will	Air delivered to an Occupied Are be tempered to at least 54°F (12°C	ea: Tempering Required. Sh	now calculation and describe
Inchalland 4:0		© Febru	ary 2015 TECA All Rights Reserved
Section 9.32 Amendment.	gn and installation of the ventilation	2012 TECA Ventil	2012 B.C. Building Code, 2014 ation Certification Stamp
Print Name	-		
Signature			
Phone			
Checklist 3, pg2of2			



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 coastal climate areas where winter design temperature is warmer than or equal to +142°F. -20°C

Civia Addra				***************************************			Y		
Civic Addre	SS			***************************************	7		Permit No		
Climate Zon	ne:	Number of Bedroom	ns		(A)	A bedroom is a room with an op- window (minimum dimensions ap- closet and a closing interior door.		nsions apply), a	
	Total	Floor area of living space	ре	ft²	(B)			r door.	
	Total In	terior Volume of Dwellin	ıg	ft³	Total volume includes all heated in spaces (including crawlspace if heated				
.5 ACH (air	changes/l	$\text{nr}) = \text{Volume x } 0.5 \div 60$		cfm	(C)	Exhaust appliances exceeding .5 ACH may require make-up air.			
1. Princinal '	Ventilatio	n System Exhaust Fan	Minima	m Air_f	low P	ata			
		t from Box (A) and Total s					and Table 9	32.3.5. to	
Minir	_	uired Prinicpal Exhaus	t System	ı Capac	ity		cfm (D)	
2. Principal S			,						
a) Exhaust I	Fan conti	nuous running Make	·····	M	odel_		Sone	Rating	
				Capacit	~				
Location: _				at 0.2 E	L			st be \geq than Box (D)	
3 Fan Duct (Size and I	Equivalent Length)	f CEV, c	capacit	y @0.4ES	P		
a) Installed									
	•	ft. + Ext. hood 30 t	ft ⊥ (# e¹	lhowe at	+ 10 ft	each -)	ft	
		duct or Smooth (rigid)		ioows ai	LIUI	. cacii —			
		to flow Box E cfm throu		alent le	noth (of duct	<u> </u>		
		uivalent Length Table 9.			_		1	in Ø	
	_	nd Bathroom Exhaust	•	•			L		
		om spot Exhaust requiren				•			
	REQUIRED	I	EXHAUST	EQUIP	MENT				
	Exhaust Rate	Spot Exhai	ust Kitcher	ı & Bath	WALL	/CEILING	FANS	Ex.Fan/CEV	
ROOM	Table	Fan Make & Model							
KOOM	ì	ran wake & woden		Daoi				Principal	
	9.32.3.6	ran make & model	@ 0.2 ESP Manf. Rated	Duct Dia		Max. Equiv. Length per table	Installed Equiv. Length	Principal System CFM	
	9.32.3.6	ran make & model	@ 0.2 ESP Manf.	Duct Dia	i (in Ø)	Max. Equiv. Length per	Installed Equiv.		
	9.32.3.6	ran make & model	@ 0.2 ESP Manf.	Duct Dia	i (in Ø)	Max. Equiv. Length per	Installed Equiv.		
	9.32.3.6	ran make & model	@ 0.2 ESP Manf.	Duct Dia	i (in Ø)	Max. Equiv. Length per	Installed Equiv.		
	9.32.3.6	ran make & model	@ 0.2 ESP Manf.	Duct Dia	i (in Ø)	Max. Equiv. Length per	Installed Equiv.		
	9.32.3.6	ran make & model	@ 0.2 ESP Manf.	Duct Dia	i (in Ø)	Max. Equiv. Length per	Installed Equiv.		
			@ 0.2 ESP Manf. Rated	Duct Dia	n (in Ø) flex	Max. Equiv. Length per table	Installed Equiv. Length		
	cities exce	eding 175cfm in Table 9.32	@ 0.2 ESP Manf. Rated	Duct Dia rigid	n (in Ø) flex	Max. Equiv. Length per table	Installed Equiv.		

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 9.37.3.7 (2).
MAKE-UP AIR Requirements 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: No such appliance. Omit Step 3 Yes, Commit to Depressurization Test (See CAUTION, TECA Vent Manual pg 24) Yes, Proceed to Step 2
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 Duct diameter inches
Fan Location Fan ducted to an Unoccupied Area first (not directly to room containing the appliance).
i) Tempering Required per 9.32.4.1.(4)(a): Show calculation & describe how make-up air will be tempered to at least 34°F (1°C) before entering unoccupied area.
ii) Transfer Grill Required: Size 1 sq in of gross area per 2 cfm:
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).
OR b) Active Make-up Air delivered to an Occupied Area: Tempering Required. Show calculation and describe how make-up air will be tempered to at least 54°F (12°C).
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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
Print Name
Signature
Company
Phone
Checklist 4, pg2 of 2