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

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

Civic Address	Permit No				
Climate Zone: Number of Bedrooms	(A)	window (minimum dimensions apply), a			
Total Floor area of conditioned space	ft ² (B)	closet and a closing interior door.			
Total Interior Volume of Dwelling	ft ³	Total volume includes all heated interior spaces			
.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 Minimum Air-flow Rate Use the bedroom count from Box (A) and Total square footage from Box (B) above and Table 9.32.3.5. to determine Minimum Required Prinicpal Exhaust System Capacity cfm (D) 					
2. Principal System Fan Choicea) Exhaust Fan continuous running Make	Model	I Sone Rating			
Location:	Capacity	$cfm \qquad (E) \text{Must be} \geq than \text{ Box } (D)$			
3. Fan Duct Size and Equivalent Length Use actual fan cfm in Box(E) above and Table 9.32.3.8 (3) [See note at bottom of page for larger fan duct sizing].					
a) Length of ductft + Exterior hood 30ft + num	ber of 90° elbows _	X 10 ft =Equivalent Length			
Maximum Equivalent Length allowed in Table 9.32.3.8(3) =					
b) Fan Duct size:inches Ø Duct type:R	igidFlex				
4. Required Kitchen and Bathroom Exhaust Fa	ns: Re-list below	if Principal Exhaust Fan meets all or			

part of Kitchen/Bathroom spot Exhaust requirements.

	REQUIRED	EXHAUST EQUIPMENT						
	Exhaust Rate	Spot Exhau	ıst Kitcher	n & Bath	WALL	/CEILING	FANS	Ex.Fan/CEV
ROOM	Table	Fan Make & Model	CFM	*Duc	t Sizing	g per Table	9.32.3.8.(3)	Principal
	9.32.3.6		@ 0.2 ESP Manf. Rated	Duct D rigid	ia (in Ø) flex	Max. Equiv. Length per table	Installed Equiv. Length	System CFM
* For fan capacities exceeding 175cfm in Table 9.32.3.8(3), follow manufacturer's nstallation instructions or use good engineering practice to size duct.								

Checklist 1, pg1of2

5. Fresh Air must be ducted from outside t	o Return Air of furnace for distribution.					
a) Duct length from this connection to furn	ace cabinet must be 15 ft maximum and 10 ft minimum					
unless a flow control device is used.	Duct length confirmed at feet.					
b) Duct Size for Fresh Air intake to RA:						
4" Ø minimum for Rigid Duct. Must be insulated & vapour barriered for full length confirm 5"Ø minimum for insulated, vapour barriered Flex Duct confirmed.						
bedroom confirmed.						
7. If Heated Crawlspace present, state met	hod of ventilating					
MAKE-UP AIR Requirements						
	ce) or radon present in dwelling unit? Sentence 9.32.4.1					
Ves, Proceed to Step 2	\square No, Omit Steps 2 & 3					
2. Exhaust Appliance present which exceed	ls Box C 0.5 ACH:					
Ves, Proceed to Step 3 Yes, Com						
	rization Test (See CAUTION, TECA Vent Manual pg 24)					
3. Use Active Make-up Air for Exhaust Appl						
	Exhaust Appliance Actual Installed Cfm					
	Make-up Air Fan Cfm					
Duct diameterinches						
Fan Location	Fan ducted to					
	cupied Area first (not directly to room containing the appliance).					
i) Tempering Required per 9.32.4.1.(4)(a):	vill be tempered to at least 34°F (1°C) before entering unoccupied area.					
Show calculation & describe now make-up an v	will be tempered to at least 34 T (T C) before entering unbecupied area.					
ii) Transfer Grill Required: Size 1 sq in of gro	oss 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 tem						
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						
······································						
Installer Certification:						
Section 9.32 Amendment.	ventilation system complies with the 2012 B.C. Building Code, 2014 2014 TECA Ventilation Certification Stamp					
Section 9.52 Amendment.	2014 TECA ventilation Certification Stamp					
Print Name						
Signatura						
Signature						
Company						
Phone						
	Checklist 1, page2of2					

2014 Amendment to Section 9.32 Ventilation Ventilation Checklist 2—HRV Systems SENTENCE 9.32.3.4 (3) & (4)

Use this checklist when a centrally ducted HRV (heat recovery ventilator) is used alone or in combination with a Forced Air furnace 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 conditioned space	ft²) (B)	closet and a closing interior door.			
Total Interior Volume of Dwelling	ft ³		Total volume includes all heated interior spaces			
.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						
Minin	mum Requir	ed Ra	te cfm (D)			
2. HRV Make N	Model					
3. HRV Capacity: CFM @ 0.4 ESP. Box E must me	cfm (E)					

4. List Exhaust Grilles Locations: 1 minimum @ 6ft 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.

	DECLUDED	T				,		
	REQUIRED	E E	EXHAUST EQUIPMENT					
	Exhaust Rate	Spot Exhau	Spot Exhaust Kitchen & Bath WALL/CEILING FANS					HRV
DOOM	Table	Fan Make & Model	CFM	*Duc	et Sizing	g per Table	9.32.3.8.(3)	Principal
ROOM	9.32.3.6		@ 0.2 ESP Manf.	Duct D	ia (in Ø)	Max. Equiv.	Installed Equiv.	System CFM
			Rated	rigid	flex	Length per table	Length	
*	•,•	175 6 5 TH 02		0.11			TOTAL (must = Box E)	

* 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

Checklist 2, pg1of2

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6. HRV Fresh Air Distribution (choose A or B option)

A) Supply Air from HRV direct connect to R	•
Furnace Fan continuous operation: yes and bedroom and any level without a bedroom: yes	
	ndently to every bedroom and any level without a
	ibution grille locations:
MAKE-UP AIR Requirements	radon present in dwelling unit? Sentence 9.32.4.1
Yes, Proceed to Step 2	No , Omit Steps 2 & 3
2. Exhaust Appliance present which exceeds Bo	
Yes, Proceed to Step 3 Yes, Commit t	
-	ion Test (See CAUTION, TECA Vent Manual pg 24)
3. Use Active Make-up Air for Exhaust Appliance Make-up Air Fan required:	
Fan Make Model	Exhaust Appliance Actual Installed Cfm Make-up Air Fan Cfm
Duct diameterinches	K
	Fan ducted to
a) Active Make-up Air delivered to an Unoccupie	ed 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	e tempered to at least 34°F (1°C) before entering unoccupied area.
ii) Transfer Grill Required: Size 1 sq in of gross are	ea per 2 cfm):
Transfer grill size sq. in.	Location
iii) Additional Tempering Required per 9.32.4.1.(4 describe how make-up air will be further tempered	(b) before transfer to occupied area: Show calculation and
describe now make-up an win be further tempered	1 to at least 34 F (12 C).
OR b) Active Make-up Air delivered to an Occur	pied Area: Tempering Required. Show calculation and describe
how make-up air will be tempered to at least 54°F	
Installer Certification:	Date
I hereby certify that the design and installation of the ventila Section 9.32 Amendment.	ation system complies with the 2012 B.C. Building Code, 2014 2014 TECA Ventilation Certification Stamp
Section 9.52 Amendment.	2014 TECA ventuation Certification Stamp
Print Name	
Signature	
Company	
Phone	

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 1	No
Climate Zone: Number of Bedrooms	(A)	window (minimum	om with an openable dimensions apply), a
Total Floor area of conditioned space	ft ² (B)	closet and a closing in	nterior door.
Total Interior Volume of Dwelling	ft ³	Total volume include spaces	es all heated interior
.5 ACH (air changes/hr) = Volume x $0.5 \div 60 =$	cfm (C)	Exhaust appliances ex .5 ACH may require 1	6
1. Principal Ventilation System Exhaust Fan Minin Use the bedroom count from Box (A) and Total square determine Minimum Required Prinicpal Exhaust System	footage from Box		ole 9.32.3.5. to (D)
2. Principal System Fan Choicea) Exhaust Fan continuous running Make	Model		Sone Rating
Location: Must be \geq than Box (D)	Capacity at 0.2 ESP If CEV, capacit	cfm (E) Must	be \geq than Box (D)
3. Fan Duct Size and Equivalent Length		9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Use actual fan cfm in Box(E) above and Table 9.32.3.8	(3) [See note at bott	tom of page for large	er fan duct sizing].
a) Length of ductft + Exterior hood 30ft + number Maximum Equivalent Length allo			Equivalent Length
b) Fan Duct size:inches Ø Duct type:Smoo	othFlex		

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	Spot Exhau	Spot Exhaust Kitchen & Bath WALL/CEILING FANS Ex.Fan/CEV						
ROOM	Table	Fan Make & Model	CFM	*Duc	t Sizing	-	9.32.3.8.(3)	Principal	
ROOM	9.32.3.6		@ 0.2 ESP Manf.	Duct D	× ,	Max. Equiv. Length per	Installed Equiv.	System CFM	
			Rated	rigid	flex	table	Length		
* For fan capacities exceeding 175cfm in Table 9.32.3.8(3), follow manufacturer's									
installation inst	stallation instructions or use good engineering practice to size duct. (must = Box E)								

5. CRV Reci	rculation and	l Fresh Air Intak				
Make		Model	0.4 ESP	cfm (F)		
Box F CFM: minimum 2 times Box D cfm for +5°F and warmer winter design temperature. Confirmed minimum 3 times Box D for less than +5°F winter design temperature. Confirmed						
			•	, or 5", flex duct		
		tion (Choose options and Supply air	-			
		ms and Supply air		of each bedroom return grille		
List locatio	Ji of supply gi			of each bedroom feturn grine		
b) Draw ai	r from comme	on area and Supply	air to bedrooms.			
List location	on of return gri	ille	and location of	of each bedroom supply grille		
7. If Heated	Crawlspace r	present. state met	hod of ventilating			
	AIR Requiren		8			
1. NAFFVA	(Naturally Aspirated I	Fuel Fired Vented Applian	ce) or radon present in dw	elling unit? Sentence 9.32.4.1		
	oceed to Step			□ No , Omit Steps 2 & 3		
			ls Box C 0.5 ACH:			
☐ Yes, Pro	oceed to Step			such appliance. Omit Step 3		
		-	ization Test (See CAUTION,	TECA Vent Manual pg 24)		
	—	for Exhaust Appl				
	Air Fan require		Exhaust Appliance	Actual Installed Cfm		
			IVI (ake-up Air Fan Cfm		
Duct dia	ameter	_inches	Fan ducted to			
Fan Loc	ation	livered to an Unoc	Fan ducted to	y to room containing the appliance).		
	-	d per 9.32.4.1.(4)(a):	cupicu Arca mst (not uncen	y to room containing the apphance).		
			vill be tempered to at least 34°F	(1°C) before entering unoccupied area.		
ii) Transf	fon Cnill Doguin	de Size 1 se in of er	and area par 2 afm):			
<i>,</i>	_	ed: Size 1 sq in of gro				
			Location	cupied area: Show calculation and		
			pered to at least 54° F (12°C).	cupied area. Show calculation and		
			· · · · · ·			
OR b) Acti	ve Make-up Ai	r delivered to an (Occupied Area: Tempering R	equired. Show calculation and describe		
		e tempered to at least				
Installer Cer	rtification:		Date			
		nd installation of the		h the 2012 B.C. Building Code, 2014		
Section 9.32 Ar	nendment.		2014 TECA	Ventilation Certification Stamp		
Print Name						
Signature						
Company						
company						
Phone						
Checklist 3, pg2	2of2					

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 -13°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 conditioned space	ft ² (B)	closet and a closing interior door.			
Total Interior Volume of Dwelling	ft ³	Total volume includes all heated interior spaces			
.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 Minimum Air-flow Rate Use the bedroom count from Box (A) and Total square footage from Box (B) above and Table 9.32.3.5. to determine Minimum Required Prinicpal Exhaust System Capacity cfm (D)					
2. Principal System Fan Choicea) Exhaust Fan continuous running Make		Sone Rating			
Location:		cfm (E) Must be \geq than Box (D)			
If CEV, capacity @0.4ESP 3. Fan Duct Size and Equivalent Length Use actual fan cfm in Box(E) above and Table 9.32.3.8 (3) [See note at bottom of page for larger fan duct sizing].					
a) Length of ductft + Exterior hood 30ft + number of 90° elbowsX 10 ft = Equivalent Length Maximum Equivalent Length allowed in Table 9.32.3.8(3) =					
	(1 171				

b) Fan Duct size: _____inches Ø Duct type: __Smooth___Flex

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	Spot Exhau	ist Kitcher	n & Bath	n WALL	/CEILING	FANS	Ex.Fan/CEV
ROOM	Table 9.32.3.6	Fan Make & Model	CFM @ 0.2 ESP Manf. Rated	*Duc Duct D rigid		y per Table 9 Max. Equiv. Length per table	9.32.3.8.(3) Installed Equiv. Length	Principal System CFM
* For fan capacities exceeding 175cfm in Table 9.32.3.8(3), follow manufacturer's nstallation instructions or use good engineering practice to size duct.					TOTAL (must = Box E)			

Checklist 4, pg1 of 2

 5. Required Inlets for passive Ventilation Air Supply a) Location: High wall (minimum 6 ft above floor) List all rooms with inlets: Required in each bedroom, and at least or 	ne common area
b) Inlet Size: Free Area must be greater than or equal to 4 Sq In	
6. If Heated Crawlspace present, state method of ventilating	
MAKE-UP AIR Requirements 1. NAFFVA (Naturally Aspirated Fuel Fired Vented Appliance) or radon present in dwel Ves, Proceed to Step 2	lling unit? Sentence 9.32.4.1 ☐ No, Omit Steps 2 & 3
2. Exhaust Appliance present which exceeds Box C 0.5 ACH: Yes, Proceed to Step 3 Yes, Commit to No su Depressurization Test (See CAUTION, T	Ich appliance . Omit Step 3 ECA Vent Manual pg 24)
3. Use Active Make-up Air for Exhaust Appliance.	Lett vent Manual pg 2+)
Make-up Air Fan required: Exhaust Appliance A	ctual Installed Cfm
Fan Make Model	xe-up Air Fan Cfm
Duct diameterinches Fan Location Fan ducted to a) Active Make-up Air delivered to an Unoccupied Area first (not directly the second seco	
 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 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 occur 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 Req how make-up air will be tempered to at least 54°F (12°C).	quired. Show calculation and describe
I hereby certify that the design and installation of the ventilation system complies with t	the 2012 B.C. Building Code, 2014 ntilation Certification Stamp
Print Name	
Signature	
Company	
Phone	
Checklist 4, pg2 of 2	