

**RM of Elton & Cornwallis – Brandon & Area Planning District**

**PART 9 RESIDENTIAL MECHANICAL VENTILATION DESIGN SCOPE OF WORK**  
*For systems serving one dwelling unit and conforming to 9.32 of the 2010 M.B.C.*  
**\* Mandatory fields must be filled out or the permit application will not be processed**

<b>* LOCATION OF PROPOSED INSTALLATION</b>		<b>* PRINCIPAL VENTILATION FAN/HRV 9.32.2.3</b>
*Builder:	*Owner:	*Make:
*Civic Address:		*Model:
<b>* INSTALLING CONTRACTOR</b>		<b>* VENTILATION PERFORMANCE &amp; EFFICIENCY</b>
*Name:	*City/Province:	Number of Bedrooms = CFM
*Address:	*Postal Code:	<input type="checkbox"/> 1=32-48 CFM
*Email:	*Phone:	<input type="checkbox"/> 2=36-56 CFM
		<input type="checkbox"/> 3=44-64 CFM
		<input type="checkbox"/> 4=52-76 CFM
		<input type="checkbox"/> 5=60-90 CFM
		<input type="checkbox"/> Sensible heat recovery efficiency 55% tested @ -25 C
		<input type="checkbox"/> More than 5 bedrooms = Design to CSA-F326-M90
<b>HEATING SYSTEM</b>		<b>SYSTEM DESIGN OPTION 9.32.3</b>
<b>*Choose 1 of the following options*</b>		<b>*Choose 1 of the following options*</b>
<input type="checkbox"/> Forced air natural gas	<input type="checkbox"/> Electric unit heater	<input type="checkbox"/> HRV-Supply connected to forced air return, extended exhaust ducts.
<input type="checkbox"/> Forced air electric	<input type="checkbox"/> Natural gas unit heater	<input type="checkbox"/> HRV-Supply and Exhaust connected to forced air return. (Simplified Method)
<input type="checkbox"/> Forced air hydronic	<input type="checkbox"/> Earth Energy (Geothermal)	<input type="checkbox"/> HRV-not connected to forced air system. (Stand-alone)
<input type="checkbox"/> Hydronic in-floor	<input type="checkbox"/> Electric baseboard	<input type="checkbox"/> Design to CAN/CSA-F326-M91.
<input type="checkbox"/> Hydronic unit heater		
<b>MINIMUM EQUIPMENT EFFICIENCY RATINGS 9.36.3.10</b>		<b>SUPPLEMENTAL FANS 9.32.3.7</b>
<b>*Choose only applicable options*</b>		<b>1. Location: <i>KITCHEN</i></b>
<input type="checkbox"/> Natural gas furnace efficiency 94%		Fan Make: _____ Model: _____
<input type="checkbox"/> Natural gas boiler 90%		Design Air Flow: _____ CFM
<input type="checkbox"/> Natural gas unit heater 82%		<b>2. Location:</b>
<input type="checkbox"/> Central air-conditioner (split system) SEER 13		Fan Make: _____ Model: _____
<input type="checkbox"/> Electric boiler equipped with automatic water temp control		Design Air Flow: _____ CFM
<input type="checkbox"/> Natural gas/propane fireplace - direct vented without standing pilot		<b>3. Location:</b>
		Fan Make: _____ Model: _____
		Design Air Flow: _____ CFM
<b>COMBUSTION APPLIANCES</b>		<b>ADDITIONAL INFORMATION</b>
<b>*Choose only applicable options*</b>		<b>*Choose only applicable option*</b>
<input type="checkbox"/> Combustion appliances non-spillage susceptible		<input type="checkbox"/> Basement area finished
<input type="checkbox"/> Solid fuel chimney-connected		<input type="checkbox"/> Basement area unfinished
<input type="checkbox"/> Combustion appliances direct vent		<input type="checkbox"/> Heated crawlspace
<input type="checkbox"/> No combustion appliances		<input type="checkbox"/> Slab on grade
<b>CERTIFICATION (A designer of CAN/CSA F-326-M90 must be HRAI Level I or level II certified)</b>		

\*Signature:

HRAI # (required for designs exceeding 5 bedrooms):

## HRV System Schematic Drawing

**Note:** *Drawing shall indicate locations of HRV exhaust/supply outlets and duct sizes.*

### HRV PLAN REVIEW \*OFFICE USE ONLY\*

Make & Model: \_\_\_\_\_  
Number of Bedrooms: \_\_\_\_\_  
Design Airflow: \_\_\_\_\_ CFM Low  
Design Airflow: \_\_\_\_\_ CFM High  
Sensible Recovery Efficiency: \_\_\_\_\_ Tested at -25C  
with a minimum Net Airflow of \_\_\_\_\_ CFM  
Equipment External Static Pressure: \_\_\_\_\_ In. Wg  
Outside Duct Run (Exhaust Port Size) \_\_\_\_\_ Inches  
Outside Duct Run Effective Length: \_\_\_\_\_ FT.  
Equipment External Static Pressure Loss: \_\_\_\_\_ In. Wg  
Available External Static Pressure: \_\_\_\_\_ In. Wg

Longest Trunk Run "Effective Length": \_\_\_\_\_ FT.  
Available External Static Pressure: \_\_\_\_\_ In. Wg

Net Supply Air Flow: \_\_\_\_\_ CFM  
Gross Air Flow: \_\_\_\_\_ CFM  
Gross HRV Exhaust Capacity: \_\_\_\_\_ CFM

Minimum size of trunk duct to the first tee:

\_\_\_\_\_