

City of Brandon – Planning, Property & Buildings Department

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**

* LOCATION OF PROPOSED INSTALLATION		* PRINCIPAL VENTILATION FAN/HRV 9.32.2.3
*Builder:	*Owner:	*Make:
*Civic Address:		*Model:
* INSTALLING CONTRACTOR		* VENTILATION PERFORMANCE & EFFICIENCY
*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
HEATING SYSTEM		SYSTEM DESIGN OPTION 9.32.3
Choose only applicable options		*Choose 1 of the following options*
<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		
MINIMUM EQUIPMENT EFFICIENCY RATINGS 9.36.3.10		SUPPLEMENTAL FANS 9.32.3.7
Choose only applicable options		1. Location: <i>KITCHEN</i>
<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%		2. Location:
<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		3. Location:
		Fan Make: _____ Model: _____
		Design Air Flow: _____ CFM
COMBUSTION APPLIANCES		ADDITIONAL INFORMATION
Choose only applicable options		*Choose only applicable option*
<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
CERTIFICATION (A designer of CAN/CSA F-326-M90 must be HRAI Level I or level II certified)		
*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:
