Mid-West Planning District

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Residential Ventilation Information Form

The owner/applicant is required the have this form completed by the mechanical contractor to show that the ventilation system has been designed in accordance with the requirements of the 2010 Manitoba Building Code. It is the Applicant and Contractors responsibility to ensure that the installation meets the design and all requirements of the Code and Standards. COMPLETE AND RETURN TO THE MID-WEST PD WITHIN 14 DAYS OF RECEIPT.

Contact Information

Applicant Name(s) _____

Company Name _____ **Contact Name** _____

Mailing Address _____ **Town/City** _____ **Postal Code** _____

Phone Number _____ **Email Address** _____

Land Owner _____ ☐ Same as applicant

Mailing Address _____ **Town/City** _____ **Postal Code** _____

Phone Number _____ **Email Address** _____

Ventilation Contractor _____ **HRAI Certification #:** _____

Company Name _____ **Contact Name** _____

Mailing Address _____ **Town/City** _____ **Postal Code** _____

Phone Number _____ **Email Address** _____

Location Information

☐ Oakview ☐ Hamiota ☐ Prairie View ☐ Ellice-Archie

Urban: Lot _____ Block _____ Plan _____ Building Number _____ Street _____ Town _____

Rural: NW SW NE SE Section _____ Township _____ Range _____

Roll Number: _____

HRV Information

Initial HRV airflow calculation (see below) (Net airflows) Minimum: _____ CFM Maximum: _____ CFM

Revised net airflow rate including Kitchen Ventilation: Minimum airflow: _____ x 2.5 = _____ CFM ☐ Not applicable

Final HRV NET Design airflow is: _____ CFM **External Static Pressure in. wg.:** _____

HRV Manufacturer: _____ **Model:** _____ **HVI Certified:** ☐ Yes ☐ No

HRV Efficiency (To be calculated at -25C with a min. airflow of 60 CFM) **HRV sensible Recovery Efficiency:** _____% (see manufacturer's specs)

Sizing Info As per MBC 9.32.3.3. the HRV shall meet the minimum and maximum airflows, and not be oversized.

Outdoor Supply Air (Makeup Air) (MBC 3.92.3.8) Are there one or more fuel fired space or water heating units (not including solid fuel burning appliances) of other than direct vented or mechanically vented being installed: ☐ Yes ☐ No

If the answer is Yes, then a makeup air fan is required for and must be interconnected with each supplemental exhaust fan so that the makeup air is provided within 10% of the air being exhausted from the exhaust fan unless a spillage test is performed conforming to CAN/CGSB-51.71 and the results of the test conform with Article 9.32.3.8.(7) of the MBC. The makeup air must be tempered or supplied to a space that is not habitable.

System Design (indicate all design details)

☐ HRV- supply to forced air furnace return, exhaust inlets from rooms
☐ HRV- not coupled to forced air furnace, separate ducting installed
☐ HRV to provide total kitchen exhaust requirements
☐ Supplemental Exhaust installed in Kitchen
☐ Supplemental exhaust installed in Bathrooms

Kitchen exhaust supplementary exhaust fan information

Number of Fans ducted to outside to be installed: _____

CFM of Exhaust Fan(s): _____

Dual Kitchen Exhaust System to be incorporated: ☐ Yes ☐ No

Bathroom exhaust supplementary exhaust fan information

Number of Fans ducted to outside to be installed: _____

CFM of Exhaust Fan(s): _____

Dual Bathroom Exhaust System(s) to be incorporated: ☐ Yes ☐ No

Controls (See MBC for other requirements)

☐ Switch marked "Ventilation Control" req. in the living area
☐ (A main HRV control meets the above requirement)
☐ A switch is required in the kitchen to activate the high speed of the HRV if a separate exhaust fan is not provided.
☐ HRV Controls located in bathrooms.

Combustion Air For indirect vented appliances and solid fuel appliances indicate if combustion air supply to be installed: ☐ Yes ☐ No
☐ Not applicable

Ventilation Worksheet

Normal Operating Exhaust Capacity (NOEC) Calculation of Heat Recovery Ventilator (HRV) in CFM (using Net No's.)

# of Bedrooms	Minimum CFM	Maximum CFM
1	32	48
2	36	56
3	44	64
4	52	76
5	60	90
More than 5	System designed to CAN/CSA F326	

Total Actual & Proposed Bedrooms: _____

Minimum NOEC Required: _____ CFM

Maximum NOEC Required: _____ CFM

Future basement development is to be considered. Include capacity for future bedrooms. If there are more than 5 bedrooms, you are required to design to CAN/CSA F326-M Standards.

Heat Recovery Ventilator (HRV) Sone Rating: _____

Supplemental Exhaust Fan(s) (A Dryer is required to be included as a mechanical exhaust fan)

Fan #	Sone	Location of Inlet	Capacity (CFM) Actual

All ducts (Supply, Exhaust and Make-Up air shall be sized according to Article MBC 9.32.3.11. or HRAI Tables.
Grease filters are required on all range top fans and all exhaust intakes located within 3M (10 ft) horizontally of a range.

Outdoor Make-up Air Fan(s)

Make-up air is required for all mechanical exhaust fans that are not part of the principal exhaust system (HRV) where fuel fires space or water heating appliances are other than direct vented types, or where soil gas is deemed to be a problem and no provisions have been made for active gas mitigation (exemptions may apply if a spillage test is conducted). If a fan is used in conjunction with outdoor air, it must be approved by the manufacturer for un-tempered outdoor air and continuous operation.

NOTE: Make up air fans will be required for all exhaust fans in excess of 150 CFM.

Fan #	Sone	Outdoor air supplied to Room	Capacity (CFM)	Pre-Heat Outdoor Air
				☐ Yes ☐ No
				☐ Yes ☐ No
				☐ Yes ☐ No
				☐ Yes ☐ No

DECLARATION: I certify that the ventilation has been or will be designed in accordance with the requirements of the 2010 Manitoba Building Code subsection 9.32.3.

_____ _____

Signature of Ventilation Contractor **Date**

_____ _____

Signature of Applicant **Date**

This form is to be completed and returned to the Mid-West Planning District office.

MWPD2021

Building Permit #: _____