

RM of Elton & Cornwallis – Brandon & Area Planning District

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

**For systems serving one dwelling unit and conforming to the NBC 2010*

LOCATION OF WORK		BUILDER/OWNER
Roll #	Permit # <u>2015/123</u>	Name: <u>Jane Doe</u>
Sec/Township/Range: <u>SW 15-10-18W</u>	Town: <u>Forest</u>	Telephone: <u>(204) 555-5555</u>
INSTALLING CONTRACTOR		COMBUSTION APPLIANCES
Name: <u>Jon Doe</u>	City: <u>Brandon</u>	<input type="checkbox"/> Chimney-connected non-solid fuel <input type="checkbox"/> Combustion Appliances Non-Spillage Susceptible <input type="checkbox"/> Solid Fuel Chimney-Connected <input type="checkbox"/> Combustion Appliances Direct Vent <input type="checkbox"/> No combustion appliances
Address: <u>Somewhere</u>	Province: <u>M.B</u>	
Phone: <u>(204) 555-5555</u>	Postal Code: <u>R2A 6B8</u>	
HEATING SYSTEMS		SYSTEM DESIGN OPTION 9.32.3
<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Electric <input type="checkbox"/> Geothermal <input type="checkbox"/> Boiler <input type="checkbox"/> Furnace <input checked="" type="checkbox"/> Baseboard		<input type="checkbox"/> HRV – Supply Connected to Forced Air Return with Extended Exhaust Ducts <input type="checkbox"/> HRV – Supply and Exhaust Connected to Forced Air Return (Simplified System)
<input type="checkbox"/> Hydronic (In floor) <input type="checkbox"/> Hydronic(Forced Air) <input type="checkbox"/> Forced Air		
PRINCIPAL VENTILATION FAN/HRV 9.32.2.3		<input checked="" type="checkbox"/> HRV – Not Connected Forced Air System (Stand-alone) <input type="checkbox"/> Design to CSA-F326-M91
Make: <u>Van EE</u>	Model: <u>60H</u>	
VENTILATION PERFORMANCE		SUPPLEMENTAL FANS 9.32.3.7
Number of Bedrooms = CFM *Choose 1 of the following options 1=32-48CFM <u>2=36-56CFM</u> 3=44-64CFM 4=52-76CFM 5=60-90CFM *More than 5 = Design CSA-F326-M90 or engineer design Design Airflow: <u>56</u> CFM High <u>36</u> CFM Low Sensible Recovery Efficiency: <u>55</u> Tested at -25C with a minimum Net Airflow of <u>64</u> CFM External Static Pressure in In. wg: <u>1.2</u> in. wg Pressure Loss: <u>0.4</u> In. Wg Available Static Pressure : <u>0.8</u> In. wg Net Supply Airflow: <u>61</u> Gross Air Flow: <u>62</u> CFM Gross HRV Exhaust capacity: <u>68</u> CFM *Heat or Energy Recovery Ventilators shall be designed to provide a minimum 55% sensible heat recovery efficiency when tested to the low temperature thermal and ventilation performance test method set out in CAN/CSA-C439, "Rating the Performance of Heat/Energy-Recovery Ventilator", at a test temperature of -25 C and at airflow not less than 60 CFM as per NBC 9.32.1.2 MB Amendment. *All start-up procedures recommended by the manufacturer, including air balancing and airflow determination, shall be followed as per NBC 9.32.3.12 (4)		1. Location: <u>Kitchen</u> Fan Make: <u>Brown</u> Model: <u>BR130WHN</u> Design Air Flow: <u>180</u> CFM 2. Location: _____ Fan Make: _____ Model: _____ Design Air Flow: _____ CFM 3. Location: _____ Fan Make: _____ Model: _____ Design Air Flow: _____ CFM 4. Location: _____ Fan Make: _____ Model: _____ Design Air Flow: _____ CFM *Supplemental exhaust is required for every kitchen not less than 50 L/S or 100 CFM. Where an exhaust air intake for the principal ventilation fan is not located in a bathroom or water closet room, a supplemental exhaust fan with a rated capacity not less than 25 L/S or 50 CFM shall be installed in that room or water closet room as per NBC 9.32.3.7 (1) & (4)
CERTIFICATION		
Signature: <u>Jon Doe</u>		HRAI # (if applicable): _____

System Schematic Drawing

Note: Drawing shall include locations, pipe sizes and duct run lengths.

