

General Requirements (Continued)

- Ducts carrying cold air through warm space or warm air through cold space must be insulated and have a vapour barrier on the warm side.
- Fans handling untempered air must be designed for that use. Air must be tempered if provided to an occupied space.
- Ducts must be properly supported and the joints must be sealed.
- A centrally located switch is required for the principal exhaust system and labeled "Ventilation Fan".
- An exhaust inlet grille in the kitchen must be equipped with a filter and if located in the wall, be within 300mm (12 inches) of the ceiling.
- Exhaust and inlet sleeves are recommended for a future dryer.
- The duct serving the kitchen must be non-combustible and the ducts serving the bathrooms are required to be impervious to moisture. (Placement of poly on the studs or wrapping the studs is not permitted.)
- Dampers are required as necessary to ensure designed air flows are achieved.
- Rectangular duct sizes must be as per Table 9.32.3.10.B. Other sizes may be used if calculations are provided.

(See brochure - 1995 National Building Code Ventilation Requirements for Dwelling Units - Design Concepts)

Please read NBC for other requirements.

FOR MORE INFORMATION:

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COMMUNITY SERVICES
DEPARTMENT

1995 National Building Code Ventilation Requirements for Dwelling Units

APPLICATION PROCESS

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Application of Ventilation Requirements

New dwelling unit

The new ventilation requirements contained in Section 9.32 of the 1995 National Building Code apply to construction of new dwelling units except mechanical ventilation systems serving more than a single dwelling unit shall conform to Part 6.

Alterations or additions to a dwelling unit that was built after July 1, 1998

Alterations or additions to existing dwelling units constructed under the 1995 National Building Code must comply with these requirements.

Alterations or additions to a dwelling unit that was built prior to July 1, 1998

Dwelling units built prior to the implementation of the 1995 National Building Code (July 1, 1998) do not have to comply with these requirements except the ventilation system must be upgraded to comply under one of the following conditions:

- 1) Where the exterior walls are upgraded with new drywall or other similar interior finish;
- 2) Where the heating system including all ductwork is being replaced;

Design Methods and Application Processes

An owner or builder may choose to design and build the ventilation system under CAN/CSA-F326-M91 or under the prescriptive requirements of 9.32.3 of the 1995 National Building Code.

The owner and/or builder is responsible for the design chosen and to ensure the system is properly installed and balanced.

CAN/CSA-F326-M91 Design

This standard allows for flexibility in design.

The use of this standard will require a calculation sheet be completed prior to the permit being issued. This calculation sheet must include the required air flows, the method of meeting the CSA standard by specifying the continuous and/or intermittent exhaust flows and the calculation of the temperature of the air delivered to the heat exchanger based on an outside temperature of minus 35 ° C. When the project is completed, tests must be conducted by an HRAI certified installer and the results submitted on a form similar to that provided in the CSA standard.

System designed to 9.32.3 of the 1995 N.B.C

Using this option will require a calculation sheet be completed prior to the permit being issued. This calculation sheet specifies the equipment that will be installed to meet the code. Upon completion, a certification of installation and operation must be submitted by the contractor.

Some General Requirements under 9.32.3

- Combustion air is required to vented combustion appliances as per Sask. Energy regulations.
- Air intakes are required to be located a minimum 900mm from exhausts or as may be required by Sask. Power for gas vents.
- Air intakes must have a hood with a minimum area equal to the duct area it serves, a corrosion resistant screen with a mesh size of 6 mm (1/4 inch), and be a minimum of 450 mm (18 inches) above the final grade. Air intakes are to be labeled as such.
- A CO sensor with an audible alarm is required adjacent to a solid fuel burning appliance without air tight doors.
- The outdoor air duct if connected to the return air plenum of the furnace must be connected a minimum of 3 m upstream of the furnace unless air is supplied through an acceptable mixing device. The connection must be downstream of all return air branch connections.
- The principal exhaust fan must be interlocked with the furnace motor where the outdoor air duct is coupled to the return air plenum of the furnace.
- Exhaust ducts discharging to the outdoors must be at least 100 mm (4 inches) above the final grade protected from the weather and be equipped with a backdraft damper at the wall.