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The Minnesota State Building Code provides minimum standards for creating an environment of health and safety for all Minnesota residents.

INFORMATION REGARDING FURNACE REPLACEMENT
AND
HEATING OF RESIDENTIAL ADDITIONS

1. Heating systems for homes when additions are being constructed must have a heat loss calculation performed including existing structure. The furnace must be sized from the heat loss.
2. All new furnace installations must have a safety test (orsat test) performed by a licensed gas contractor, a copy of which must be sent to the Inspection Division.
3. Combustion air must be installed by ducts that have unobstructed areas not less than the area of the minimum required common flue or flues serving the heating system and other fuel-burning appliances in the area, and shall discharge such outside air at a point not more than one foot above the floor.
 - a) Alternate Combustion Air Method:
Air for combustion may be introduced into the return air plenum of a forced air system provided that an unobstructed opening into the appliance area is installed in the supply side of the system. The opening shall have a minimum area of 50% of the common flue area.
All outside air openings through walls shall be not less than one foot above grade level and be protected with screen of not more than one-half inch nor less than one-fourth inch mesh.
4. Transite Flues:
The Inspection Division has found a large percentage of transite flues in various stages of deterioration. These transite flues are a potential life safety hazard for the occupant.

The heating code will not allow continued use of a deteriorated flue, therefore, all existing transite flues shall be replaced when new furnace or water heaters are installed.
5. All furnaces must be A.G.A. approved and installed according to its listing.
6. For furnaces installed in a small room or area, proper ventilation must be supplied by grills or openings to adjoining rooms so as not to overheat the confined space.
7. When installing a new furnace and/or flue, proper clearances must be maintained from them according to their listing as shown on the appliance or flues.

This handout is written as a guide to common questions and problems. It is not intended nor shall it be considered a complete set of requirements.

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