

CITY OF APPLE VALLEY

Informational handout for furnace replacement

A mechanical permit is required for the replacement of a furnace. The following items must be complete before the work can be inspected.

1. The furnace performance test shall be completed and a tag filled out and attached on the gas line near the furnace.
2. Appliance venting shall comply with Section 503 of the 2009 Minnesota Fuel Gas Code.
3. The common vent shall terminate in a listed cap above the roof.
4. The entire common vent shall be double-wall (B-vent) material. The common vent begins at the point where the water heater and furnace vents are combined.
5. All horizontal vent connectors require a minimum upward pitch of $\frac{1}{4}$ inch per foot.
6. Combustion air may be required based on MN Fuel Gas Code requirements and room size. The combustion air intake assembly shall be located a minimum of twelve inches (12") above grade (measured to the bottom of the opening) on the outside and shall be caulked on the top and sides. The combustion air duct shall terminate a maximum of twelve inches (12") above the floor on the inside. Other combustion air options are available. See the manufacturer's specifications.
7. Maintain a one inch (1") clearance between combustibles and B-vent material and a six inch (6") clearance between combustibles and single-wall vent material.
8. Direct vent appliances shall be installed per Manufacturer's installation instructions. The installation manual is required to be on site at the time of inspection.
9. A separate electrical permit is required.



7100 147th Street West
Apple Valley, MN 55124-9016

Telephone (952) 953-2588
Fax (952) 953-2515
www.cityofapplevalley.org

INSTALLING HEAT IN A GARAGE OR SHED

PERMITS – If you are adding a furnace or heating appliance, you need to apply for a mechanical permit. All appliances shall be listed and tested by a third party agency and installed per manufacturer's installation instructions.

If adding insulation in walls or ceiling, you will need to apply for a miscellaneous building permit in addition to the mechanical permit.

An electrical permit can also be obtained at the City office. Electrical inspections are obtained by contacting Mike Hawke, State Electrical Inspector, at 952-997-6822 between 7:00am and 8:30am.

INSULATION – Garages and sheds are exempt from the requirements of the energy code. The building code requires that a vapor barrier be installed on the warm side of fiberglass insulation. Vapor barriers shall be covered or shall be of flame retardant materials.

ATTIC VENTILATION – Roof vents and exterior soffit vents are required to ventilate the attic space. If the ceiling is insulated, air chutes are required between the rafters at the exterior walls to provide an air space between the ceiling insulation and the roof plywood.

ATTIC ACCESS – A 22 by 30 attic access shall be provided if the attic area is 30 square feet or more and has a vertical height of 30 inches or more.

MECHANICAL – If the walls and ceiling are insulated, proper combustion air shall be provided for all fuel burning appliances.

The flue pipe shall have the proper clearance to combustibles for the entire length. A metal sleeve shall be provided where the vent passes through attic or wall insulation. The sleeve shall provide a one inch clearance from the insulation to the flue pipe.

An approved (UL listed) cap is required on the vent termination.

GAS LINES – All gas lines shall be tested with air pressure. The test shall be a minimum of 25 psi for 30 minutes and the city inspector shall witness the test.

INSPECTIONS – Attic ventilation, attic access, ductwork, venting and gas lines must be inspected before covering. Call the Inspection Department at 952-953-2588 to arrange inspections. Call at least one day in advance for inspections.

This handout is for information only and is not intended to be a complete list of requirements.



City of Apple Valley Residential Mechanical Permit Application
7100 147th Street W, Apple Valley MN 55124
952-953-2588
ALL INFORMATION IS REQUIRED

Site address _____

Owner's name _____ Phone _____

HVAC contractor _____ Phone _____

Email Address (Required) _____

Address _____ City _____ State _____ Zip _____

Contact name _____ Phone _____ Bond Verified _____

State law requires that you file a \$25,000 bond with the State Construction Codes and Licensing Division. Information proving compliance with the current energy code must be submitted with this application. Permits remain active for 6 months.

Applicant is: _____ Property Owner _____ Contractor _____ Other _____

Signature of applicant _____ Date _____

Describe Work: _____

FURNACE REPLACEMENT (\$63.00 PLUS \$1.00 SURCHARGE) \$ _____

Furnace Brand _____ Furnace BTU'S _____

Electrical Permits are required for Furnace and AC Replacement. A Mechanical Permit is not required for Replacement of AC only.

Residential Remodel

Gas lines, bath fans and miscellaneous work (Minimum fee \$63.00 plus \$1.00 surcharge) \$ _____
 (Additional Fee for Fireplace Installation)

FIREPLACE/New and Existing Homes (Permit Fee \$112.00 plus surcharge) \$ _____

(For Installation of 1 or multiple Fireplaces at one address) (Additional Fee's for other work) A separate electrical permit is required.

New Residential/New Construction: (R-3: single-family/some townhomes)

Heating only (1 furnace).....	Fee is \$112.00 plus \$1.00 surcharge	\$ _____
Heating & A/C (1 furnace, 1 A/C)....	Fee is \$112.00 plus \$1.00 surcharge	\$ _____
More than 1 furnace and/or A/C.....	Fee is \$156.00 plus \$1.00 surcharge	\$ _____
State surcharge (\$1.00).....		\$ _____

TOTAL FEE \$ _____

MINIMUM PERMIT FEE IS \$63.00 PLUS THE \$1.00 STATE SURCHARGE

Date paid _____ Check # _____ Permit # _____