



## City of Spring Lake Park Code Enforcement Department

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Spring Lake Park, MN 55432  
Phone: 763-792-7212  
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### HEATING, VENTILATION & AIR CONDITIONING REQUIREMENTS

Reference Minnesota State Building Codes: IBC, UMC, Energy Code)

HVAC includes all heating, air conditioning, ventilation and refrigeration equipment, gas piping, gas fireplaces, gas logs, factory-built wood burning fireplaces and wood burning stoves. New residential building permits include HVAC work. Remodeling may require separate permits.

#### General Requirements:

- Provide at least 6 inch clearance to combustibles from single wall gas vent. Provide at least 1 inch clearance to combustibles from Class B gas vent (UMC Table 5C). Use GAMA venting tables to size gas vents and connectors. Common vents must be Class B.
- Copper gas piping must be type K or L, free of defects, and installed without kinks in piping. Sleeves are required when passing through concrete or stucco. Steel and wrought iron piping run outside exposed above ground must be galvanized or painted (UMC 2212). Mechanical joints cannot be concealed.
- Insulate exhaust ducts in unheated spaces. Insulate exhaust ducts in heated spaces at least 3 feet from the outlets. Supply and return ductwork in attics, garages or under porches must be insulated (R-8 Minimum) and have a vapor barrier (EC 7670.0610.15).
- Bathrooms require mechanical ventilation of 5 air changes per hour (UBC 1203.3). (Generally 0.7 CFM per square foot of floor area). Air-to-air systems must satisfy this requirement.
- Return air ducts in basement or furnace room must have all joints sealed [taped or caulked] (EC 7670.0610.16).
- Joints in ducts in exterior walls must be taped.
- Factory-built chimneys and fireplaces shall be installed in accordance with manufacturer's instructions and must be inspected prior to covering (UBC 3102.5). Ducted combustion air required on all units.
- Clothes dryer vents and kitchen range vents require smooth metal ductwork. (UMC 1104)
- Underground duct must be installed in accordance with manufacturer's instructions and must be inspected prior to covering. A drain tile system must be installed with the top of the drain tile lower than the bottom of the duct (UMC 1004e).
- Condominiums and townhomes - Exhaust ducts, furnace vents and similar roof openings are not permitted within 5 feet of the occupancy separation walls (UBC 504.6.4 (2.3)).

#### Required Inspections - Call: (763) 792-7212

**Rough-In:** Prior to covering, framing completed. Supply and return openings ready, exhaust fan housings installed, exhaust ducts installed and insulated, gas vents and factory-built chimneys installed.

**Underground Duct:** Prior to covering all joints sealed per manufacturer's instructions. Rigid insulation (R-5.0 minimum) on three sides. Drain tile system complete.

**Gas Piping:** Gas line pressure tests (GLPT) are required on all high pressure lines, concealed lines and threaded piping and should be included with the rough-in inspections when possible. Air tests shall be at least 25 PSIG for 12 hours.

**Final:** All mechanical systems completed and operational. Electrical and gas connections must be complete.

**Factory Built Fireplaces:**

**Rough-In:** Unit installed, venting, combustion air, fire-stopping, and framing completed.

**Final:** Unit operational, wiring, piping, mantle and hearth completed.