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## COMMUNITY DEVELOPMENT DEPARTMENT

# FURNACE - A/C CONDENSER REPLACEMENT

### Permit Information:

- Permit application with cost of construction and all contractors and their contact information listed.
- Copy of the contract between the homeowner and the contractor.
- Manufacturer's spec sheet for new furnace and/or condenser noting the model number, BTU, and energy efficiency (AFUE or SEER rating).

### Furnace Requirements:

- Gas line connection to furnace shall be one of the following: **A)** Rigid metallic pipe and fittings, or **B)** Listed and labeled flexible appliance connector (ANSI Z21.24 compliant, bare stainless steel or yellow coated stainless steel, 6'-0" max length, in same room as appliance).
- Install the following 3 items on gas line to appliance in this order starting closest to appliance:
  - Union
  - Sediment trap (dirt leg) - as close as practical to appliance & downstream of equipment shutoff valve
  - Equipment shutoff valve - within 6'-0" of appliance, in same room as appliance and accessible
- Seal new duct joints & connection to furnace with mastic or UL 181 labeled tape. "Duct tape" not allowed.
- Thermostat shall have an automatic time clock or programmable controls.
- Vent per manufacturer's installation instructions.
- If venting is being removed from an existing chimney, inspector will determine if opening in chimney is sealed properly. If other gas-fired appliances are still being vented thru chimney, inspector will determine if size of chimney is adequate for proper venting of remaining appliances.
- Provide combustion air for any gas-fired appliance by one of these options:
  - Provide 1 square inch of vent opening per 1,000 Btu/h of the gas-fired appliances in the room. This can be either a louvered door or hi/low vents in a wall.
  - A 90%+ efficient appliance with an outside air intake pipe terminated to the exterior per the manufacturer's installation instructions.
- Provide manufacturer required clearances to obstructions and combustible construction.

### A/C Condenser Requirements:

- Condenser shall not block access to, or workspace clearance for, the disconnect on the building wall.
- Provide manufacturer required clearances to obstructions, and workspace clearances.
- Use Liquidtight Flexible Metal Conduit (Sealtite) or another approved wiring method for the electrical connection to the condenser. Conductor size, bend radius, number of bends, support, and equipment grounding conductor shall be per 2002 NEC, Article 350.
- Seal around pipe penetrations into the building.
- Condensate from furnace shall discharge to an approved drain.
- Circuit breaker in electric panel shall not exceed "Maximum Fuse Allowed" listed on condenser label.
- Installation instructions shall be on-site for inspection.

### Inspections:

- **2-business day notice** is required when scheduling inspections.
  - Final

If you have questions on your project, please contact the Community Development Department at 847-639-1100.