



## COMMUNITY DEVELOPMENT DEPARTMENT

### Building Inspection Division

221 West Pine St./PO Box 3006, Lodi, CA 95241-1910

(209) 333-6714

## Residential HVAC Cut-in or Change-out with Relocation

---

### Plan Submittal

Two (2) generic floor plans 8 ½ X 11 that show electrical panel location, gas meter location, HVAC location, access-opening location, and any new electrical and/or gas line.

### Minimum Information

#### Forced-Air Furnace

- Work space – shall not be less than thirty (30) inches in depth, width and height and a platform shall be provided to service the appliance. CMC 305.0
- Total space must be 12 inches wider than the furnace. CMC 904.1
- Receptacle required within 25 feet. CMC 309.0 CEC 210.63

#### Under floor

- On slab {min. 3in.} above grade. CMC 909.3
- Suspended furnace min. 6 inches above grade. CMC 909.4
- Passageway-22in. {30in.} X 30in. or manufacturer's specifications. CMC 909.2
- Access door max. distance 20ft. to equipment. CMC 909.2
- Switch at entrance for light at appliance CMC 909.5
- Receptacle required within 25 feet. CMC 309.0 CEC 210.63

#### Attic

- Access- opening 22in. X 30in. (or dimension of appliance) CMC 904.11.1
- Minimum passageway to the unit 24 inches wide, CMC 904.11.3
- Solid floor from access door min. 24 in wide. CMC 904.11.3
- Min 30in. deep platform in front of the service side of the appliance CMC 904.11.4
- Light outlet with switch located at the entrance to the passageway CMC 904.11.5
- A permanent 120-volt receptacle shall be located within 25 feet of the equipment for service and maintenance CMC 309.0

#### Roof Top

- A furnace located on a roof shall be installed on a well drained surface of the roof. At least 6 feet of clearance shall be available between any part of the equipment and the edge of the roof or similar hazard, or rigidly fixed rails, guards, parapets or other building structures at least 42 inches in height shall be provided on the exposed side. CMC 904.10.2.2
- Receptacle required within 25 feet. CMC 309 CEC 210.63

## Gas Piping

- Size of Piping
- Length of piping
- BTU'S being supplied of the existing and/or new gas piping
- Type of gas piping
- Plumbing diagram that shows size, Length and BTU's being supplied of the gas piping.

## Framing

- May require engineering for existing roof trusses and/or roof framing members

## Title- 24

- At permit submittal Form **CF-1R-ALT**
- At Final inspection **CF-4R & CF-6R (see Table Below)**

Equipment	CF-6R Form	CF-4R Form
Space Conditioning Systems, Ducts, and Fans	CF-6R-MECH-04	NA
Evaporatively Cooled Condensing Units	CF-6R-MECH-06	NA
Evaporative Coolers	CF-6R-MECH-07	NA
Duct Leakage Test – Completely New or Replacement Duct System	CF-6R-MECH-20-HERS	CF-4R-MECH-20
Duct Leakage Test – Existing Duct System <sup>1</sup>	CF-6R-MECH-21-HERS	CF-4R-MECH-21
HSSP/PSPP Installation; Cooling Coil Airflow & Fan Watt Draw Test <sup>2</sup>	CF-6R-MECH-22-HERS	CF-4R-MECH-22
TMAH; STMS; and CID	CF-6R-MECH-24-HERS	CF-4R-MECH-24
Refrigerant Charge Verification – Standard measurement Procedure <sup>3</sup>	CF-6R-MECH-25-HERS	CF-4R-MECH-25
Refrigerant Charge Verification – Alternate Measurement Procedure <sup>3</sup>	CF-6R-MECH-26-HERS	CF-4R-MECH-26

### Footnotes

1. CF-6R-MECH-21-HERS and CF-4R-MECH-21 are required if one of the following conditions exist
  - a. If more than 40 linear ft of new or replacement ducts are installed in unconditioned space.
  - b. If the existing HVAC is replaced (including the replacement of the air handler, outdoor condensing unit of a split system A/C or heat pump, cooling or heating coil, of the furnace heat exchanger)  
Exceptions:
    - a. Duct systems that are documented to have been previously sealed confirmed through HERS verification in accordance with procedures in Reference Residential Appendix RA.3.
    - b. Existing duct systems constructed, insulated or sealed with asbestos.
2. CF-6R-MECH-22-HERS and CF-4R-MECH 22 are required when an existing ducted split A/C or heat pump is replaced (including the replacement of the air handler, outdoor condensing unit of a split system A/C/or heat pump, cooling or heating coil, or the furnace heat exchanger).
3. CF-6R-MECH-25-HERS and CF-4R-MECH-25 or CF-6R-MECH-26-HERS and CF-4R-MECH-26 are required when the entire existing space conditioning system (HVAC equipment plus the ducts) is replaced.