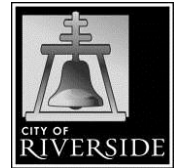


# City of Riverside

## Building & Safety Division

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### ❖ TOP 20 ATTIC INSTALLATION REQUIREMENTS FOR FORCED AIR UNITS ❖

#### **MECHANICAL**

1. Installation instructions for the unit must be available for the inspection. (CMC 303.1)
2. Properly support and secure the unit. (CMC 303.5)
3. Gas shut-off required within 6' of unit. (CMC 1312.4)
4. Attic access to be the size of largest piece of equipment, but not less than 22"X 30"min. (CMC 904.10)
5. Level working platform not less than 30"deep X 30"wide at the service side(s) of unit. (CMC 904.10.3)
6. Access walkway 24" wide, solid flooring,, 30" X 30" min. clear passageway, 20' max. from attic access opening (CMC 904.10.1, 904.10.2)
7. Gravity venting systems to be double wall Type "B" vent material and horizontal sections (46-60 degrees from vertical) not to exceed 75% of the overall height of the vent length. Only (1) 60 degree offset is permitted. Vent offsets more than 60 degrees are not permitted. (CMC 802.6.1.)
8. Gravity vent termination to be 1' above roof if slope of roof not greater than 6/12, steeper roofs require additional height. Termination to be 8' from vertical surfaces above roof line. All combustibles to be at least 1" from double wall vent or in accordance with the product's listing, whichever is greater. Overall vent height to be 5' min above vent collar of the FAU in the attic. (CMC 802.6.2)
9. Adequate combustion air to be provided to the attic area. (CMC 701)
10. Insulated ductwork properly supported and joints properly secured (CMC Standard 6-5, SMACNA).
11. Provide automatic setback thermostat. (T-24, Section 110.2 (c))
12. On existing systems if more than 40 feet of new ducting is installed during a replacement or extension project, the minimum insulation value of R-6 is required on the new ducting and a duct leakage test is required. (T24 Section 150.2(b)(D))
13. When an FAU is replaced, the ducts (existing and new), require R-6 duct insulation and a duct leakage test is required on the entire system. (T24 Table 150.1-A)

#### **ELECTRICAL**

14. Switched light and receptacle near the unit with switch near attic access scuttle. (CMC 904.11.5) Duplex receptacles may not be mounted facing upward.
15. Air conditioner condenser and FAU to be provided with individual separate dedicated circuits and have electrical disconnect means in sight of the unit and readily accessible. (NEC 440-14)
16. Identify breaker at meter panel/ proper conductor size. (NEC 110-22 and Table 310-16)
17. All electrical wiring within 6' of the attic access scuttle must be secured and protected by a guard strip to prevent damage to the cable. (NEC 334.23 and 320.23)
18. Retrofit smoke and carbon monoxide alarms required. Generally required in all bedrooms, hallways leading to bedrooms, and top of stairway, if any. (CRC R314.3, R314.3.2,R315.2)

#### **PLUMBING**

19. Condensate drain and secondary drain - 1/8" per ft min. slope with supports every 4'. On retrofit units both drains may run to the exterior. (CPC 814.1)
20. Gas line air test required if new gas line piping is added. Gas test criteria: 3 psi for 10 minutes on a 15 pound max pressure gauge. (CPC 1213.3) If only minor piping or fittings are added (not to exceed 6' total piping), leak detection fluid may be used with working pressure.)