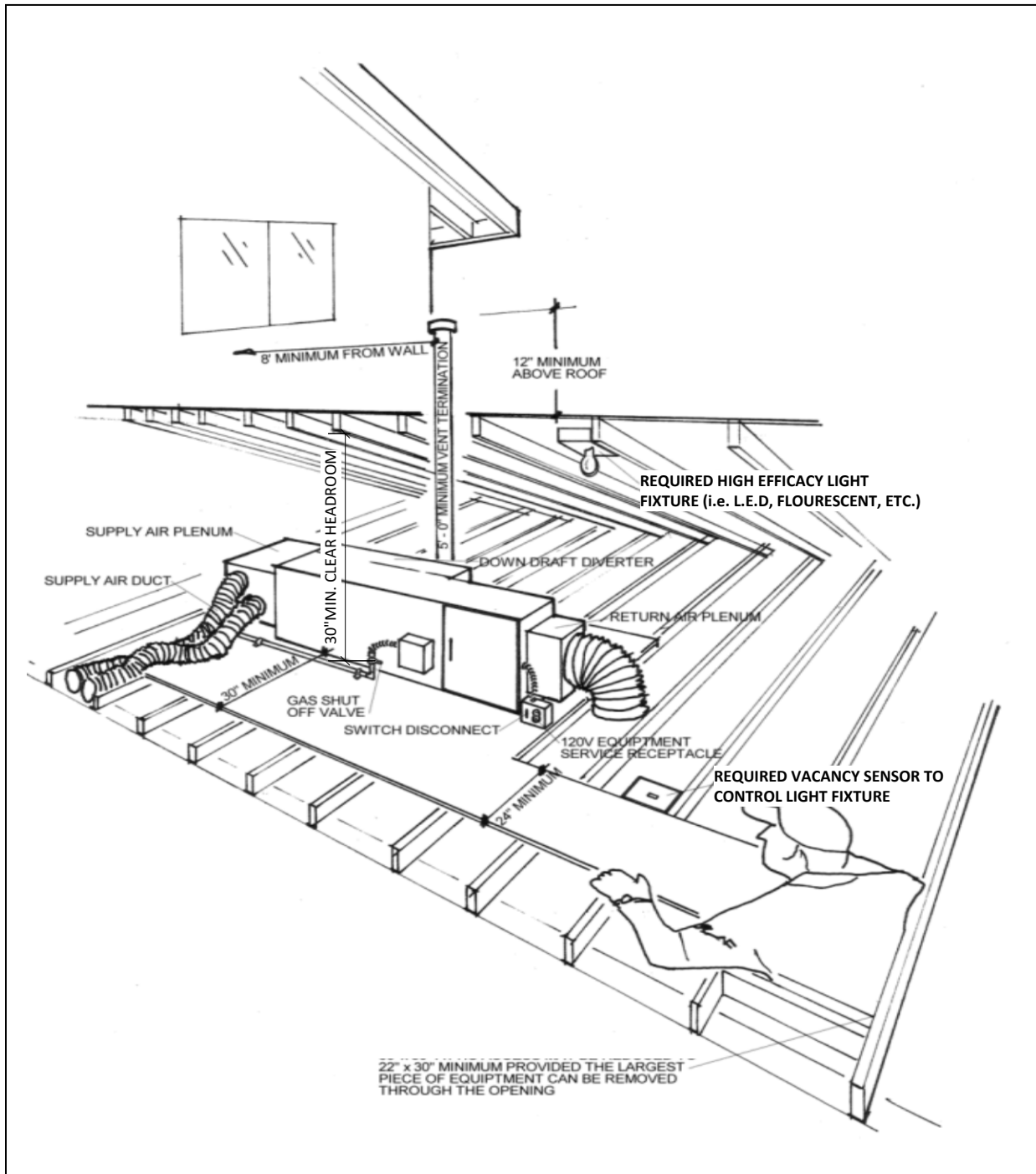




Typical Installation of Furnace in Attic

Handout No: 18
Revised: 1/9/2020



INSTALLATION CHECKLIST

- Rafter shall be adequately sized to support the furnace.
- Obtain the furnace manufacturer's installation instructions and install the furnace to their specifications.
- Establish the best location for installation of furnace equipment and vent.
- An attic where furnace equipment is installed shall be accessible by an opening and passageway sized not less than the largest component of the appliance and not less than 22 inches x 30 inches. [California Mechanical Code. (CMC) 304.4]
- Install a passageway platform with solid flooring a minimum of 24 inches in width and if less than 6 feet of head clearance, not more than maximum 20 feet in length to the furnace equipment. [CMC 304.4.1 and 304.4.2]
- Install a level working platform not less than 30 inches in depth and width in front of the entire service side of the furnace equipment. [CMC 304.4.3]
- A permanent 120-volt service receptacle outlet is required near the appliance (within 25 feet) for servicing the furnace equipment. [CMC 304.4.4]
- A high efficacy (i.e. LED., fluorescent, etc.) lighting fixture controlled by a vacancy sensor switch shall be located at or near the required passageway opening and near the furnace equipment. [CMC 304.4.4 and CA Energy Code 150.0(k)2.J]
- Install vent, roof flashing and vent cap. Double-wall type "B" vent requires minimum one inch (1") clearance to combustible materials and requires a minimum five-foot (5' - 0") vent termination above the highest vent collar it serves. [CMC 802.6.2.1]
- Equipment requiring electrical connections of more than 50 volts shall have a positive means of disconnect to and in sight from the equipment served. [CMC 301.4]
- An approved manual shutoff valve with a non-displaceable valve member, or a listed gas convenience outlet shall be installed within 6 feet of the appliance it serves. [CMC 1312.6]
- Where a sediment trap is not incorporated as part of the appliance, a sediment trap shall be installed downstream of the appliance shutoff valve as close to the inlet of the appliance as practical, but before the flex connector at the time of appliance installation. [CMC 1312.9]
- Provide gas test on new gas piping installed that is six feet and over in length [CMC 1303.3.3]
- Single-wall vent connectors shall not originate in any unoccupied attic or concealed space. [CMC 802.7.3.2]
- Anchorage of Appliances – Appliances designed to be fixed in position shall be securely fastened in place. [CMC 303.4]
- Furnaces installed in an attic that have condensate from air-cooling coils shall be collected and drained to an approved location. Drain pans and coils shall be arranged to allow thorough drainage. [CMC 310] It is strongly recommended that the piping for a condensate waste line for a high efficiency furnace be PVC or ABS plastic piping to eliminate future corrosion issues.
- In dwelling units, carbon monoxide and smoke alarms are required in accordance with California Residential Code (CRC) Sections R314 and R315. More information on carbon monoxide and smoke alarms is available on the City's web site at <https://www.sonomacity.org/documents/41-f-smoke-co-alarms-declaration-certification/>.