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## **FURNACE AND A/C REPLACEMENT HANDOUT**

قا **Inspection Record card or summary permit sheet** shall be available and shall remain on the job-site until the final inspection has been made.

قا Call (952) 461-4777 to schedule your final inspection. For same day inspection, please call between 8:00 a.m. and 9:00 a.m.

### قا **Heating Equipment**

→ Listed and installed per manufacturer installation instructions- provide instructions.

→ Check clearances to furnace

- 30" in front
- 1" sides and back minimum (read installation instructions).
- 6" to combustibles single wall vent
- 1" to combustibles Class B vent

→ Provide flue gas test (ORSAT) on all heat producing equipment indicating:

- Carbon monoxide (CO) < 400 parts per million
- Carbon dioxide (CO<sup>2</sup>) 6-9%
- Oxygen (O<sup>2</sup>) 4-10%
- Stack temperature = 480° F for metal and = 200° F for plastic

### قا **Ducts**

→ Check for vibration isolation between duct and furnace on supply and return.

→ Check overall tightness of joints for air leakage.

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## Venting

- Every furnace shall be vented to the exterior.
- Check vent connector rise and length to vent. (1/4" per foot min rise 6 feet max)
- Furnace needs to be vented per manufactures installation instructions (read installation instructions).
- Must have roof cap installed on top of flue.
- Must have 3 screws per joint on single wall vent.

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## Combustion Air Supply

- Determine combustion air source. May be installed in the return duct with an undampened opening into the mechanical room. Provide opening on supply plenum not return duct.
- Combustion air must be in the same room as the furnace and water heater.
- Combustion air duct sized at least the same size as the flue and insulated.
- Make sure openings are not blocked or restricted. Minimum 12" above grade level.
- Verify that inlet openings are properly screened 1/4" mesh.
- Verify that duct is R5 insulated.
- Duct needs to be strapped with 1-1/4" wide strapping every 4'. Outlet of duct to be maximum 12" above interior floor but at least 2' from any water main or water pipe to protect from freezing.
- Verify location of inlet on exterior-to-exterior exhaust vents (3'). If the combustion air is in the return, then the separation becomes 10'.