

Residential Furnace Inspection Checklist

2020 Minnesota Mechanical Code (MC), Fuel Gas Code (FGC), Manufacture Requirements (MR)

1. Installed according to manufacturer's installation requirements, [MC 304.1](#) and [804.1](#).
2. When installed in a private garage it shall be; 6' above the floor or protected from motor vehicle impact, [MC 304.7](#). The ignition source must be at least 18 inches above floor, [MC 304.3](#).
3. When installing a furnace in a new home, a 10-minute 25-pound *air test* is required on the main gas line from gas meter to furnace, [FGC 406.4.1+2](#).
4. When replacing an existing furnace, a *gas system leakage check* of connections between new and existing piping is required after the gas is turned on, [FGC 406.6.3](#).
5. Gas leakage checks are done with an approved gas detector, a noncorrosive fluid or other approved methods, [FGC 406.5.1](#). (*manometer or soapy water solution are common methods*).
6. Replacement of a natural draft furnace requires combustion air brought into the home; [FGC 304](#). *High efficiency sealed combustion furnaces have their own dedicated combustion air*.
7. A natural draft atmospheric vent through a chimney requires a metal liner, [FGC 501.12](#).
8. CSST piping shall be installed according to manufacture requirements and this code, [MC 404.2](#).
9. Gas piping support: ½" copper tubing every 4', ½" steel or 5/8" copper every 6', [FGC T-415.1](#).
10. Condensate pipes not less than ¾ inch internal diameter shall drain to an approved plumbing fixture or disposal area, [MC 307.1](#) and not decrease in size from the drain connection, [MC 307.2.2](#).
11. Vent connector pipes require a minimum ¼" per foot slope, [MC 803.10.5](#). and joints fastened with sheet metal screws, rivets or approved means, [MC 803.10.1](#).
12. Vent connectors shall maintain clearance to combustibles, [MR](#).
13. Mechanical draft vents shall terminate not less than 3' above any forced air inlet located within 10' and not less than 12" above finished grade, [MC 804.3.4](#).
14. Sediment trap of any length located downstream of shutoff valve at a 90-degree angle, [FGC 408.4](#).
15. Shut-off valve shall be located within 6' of the appliance in the same room, ahead of union or quick disconnect device and regulator, [FGC 409.5.1](#).
16. Front service space not less than 30 inches deep and 30 inches wide, [MC 306.2 Exception](#).
17. Sealed combustion intake and exhaust pipes shall be pitched back to furnace and the exterior intake air and exhaust outlets shall be properly spaced and sealed, [MR](#).
18. Electrical wires providing power to appliance shall be properly connected, [Electrical Code](#). (*for electrical questions, call the electrical inspector on his cell phone*)
19. Every furnace requires a filter to be installed, [MR](#).

Note: This is only a basic list of requirements. Refer to cited references and [MR](#) for additional information.