



Required for Boiler Rooms
Combustion Air plus Relief Air plus Fresh Air for Ventilation Systems.
Cold water feed line for humidification, flushing and filling of pipes.
Venting for combustion gases.
Power for motors, controls, CO and smoke alarms and electrical heating elements if present.
Fuel source lines with services and safety valves
Size the room for serviceability of air filters, combustion chambers etc.
A wash sink with hose is always nice in a boiler room!

Floor - Mechanical Rooms
Sloped Concrete Slab to Drain
Reinforcement
Vapor Barrier
Insulation
Sand
Crushed Rock
Compacted Sub Grade
Note: Do not locate radiant pipes under boilers or chillers.

Additional Notes for Boiler Rooms

- Do not store chemicals in the boiler room. Many chemicals out gas and when mixed with combustion gases can lead to hazards and corrosion. Ex.: Chlorine for pools or salt for water softeners.
- Do not locate any devices which could create back drafting in the room such as central vac's.
- All service drains on pipes and water heaters must have caps to prevent accidental opening and draining of system. Both lead to hazardous situations for the occupants.
- Uninsulated pipes from water heaters and boilers can cause burns. Keep small children away with locked doors. Insulate any pipes that might be considered a hazard.
- All safety relief valves must be piped downwards to the floor...check local codes for distances from floor and drains.
- Pipe all condensate and fluid from backflow preventers to drains.
- Boilers must never be mounted on a combustible floor unless rated for such.
- Non combustible house keeping pads are recommended for all applications.
- Provide mechanical isolation brackets on pipes and ducts to prevent the transmission of noise to the structure.
- Follow all manufacturers and code requirements to the authority having jurisdiction.

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Radiant Based HVAC Systems

Boiler Room Details

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