

## WATER HEATER-RESIDENTIAL

### Permit Information:

- Completed permit application including the estimated cost of install and all contractors and their contact information. All contractors/subcontractors must have a copy of their license, surety bond and liability insurance on file for each job.
- Once submitted, Village staff reviews all documents for compliance with Village Code. You will be contacted when the Permit is ready for pickup.
- **One (1) copy** of the manufacturer specifications
- **IN EMERGENCY SITUATIONS**
  - On weekends, holidays or off-hours, a water heater may be installed by a qualified person without first obtaining a building permit. In all such cases, a building permit shall be secured as soon as possible thereafter, and then arrangements for an inspection shall be made.

### Location/Installation Guidelines:

- Water heaters must be installed in an accessible locations with adequate supply of combustion air.
- Gas water heaters shall not be installed in habitable rooms (bedrooms, living rooms, etc.), hallways and bathrooms unless they are enclosed in a closet designed for that purpose. (adequate combustion air, floor drain, adequate flue clearance or enclosure, etc.)
- A water heater shall be installed by a licensed plumber, or in the case of a single family dwelling, by an owner who is also the occupant.
- A shut-off valve shall be provided in the cold water line to each water heater as close as possible to the tank.
- A new pressure-temperature relief valve shall be installed with every new water heater. The discharge line must be metallic pipe and located as not to create a safety hazard or cause damage to the building or its contents. When piped into a floor drain, a fixed on (1) inch air gap shall be maintained.
- All water heaters installed above the elevation of the plumbing fixtures, ceiling or attic shall be equipped with a vacuum relief valve in the cold water inlet pipe.
- We require that all water heaters that are installed on the second floor or above, be installed in a safe-pan with a drain piped to the floor drain.
- All flue pipe sections and fittings shall be properly screwed and supported.
- All gas water heaters shall be equipped with a gas-shut off valve. All electric water heaters shall be equipped with a disconnect switch.
- When connecting dissimilar metals (steel pipe of a water heater to the copper piping of the house), dielectric unions shall be used.

### Safety Tips:

- Remove paper, accumulated dust or other combustibles from the heater enclosure.

- Extinguish the pilot light before using flammable liquids or setting off aerosol bug bombs near unit. Never store combustibles close by.
- If the device is in the garage, raise it so the pilot light is 18 inches above the floor. This can help prevent ignition of gasoline vapors that collect near the floor.
- Inspect the flue for breaks or gaps that could leave deadly exhaust gas (This is a good practice to do on other gas appliances.)
- Ask your service technician to check the temperature pressure-relief valve, a faucet-like device mounted on top or side of the heater. Excessively high temperature or pressure causes this valve to open, relieving pressure and preventing a steam explosion.

Inspections:

- Allow for 24 hours advance notice on all inspections. (Inspections are M-W-F, except holidays).
  - Final

If you have questions on your project, you are encouraged to contact the Village of Lakemoor Building Department at (815) 385-1117