

SECTION**29.0.0 Heating, Ventilation, Steam Boilers and Unfired Pressure Vessels****29.1.1 Definition**

A heat producing device is defined as any device used for the production and maintenance of heat by the combustion of fuel or electrical energy.

29.1.2 General Requirements

All heat producing appliances used within buildings or structures shall be acceptable to and be approved by the Building Commissioner except that electric furnaces shall be approved by the Village Electrical Inspector and shall comply with all applicable requirements of this ordinance. Before issuance of a Building Permit, plans will be required to show the general location of all heat producing appliances and equipment. If units are shown on plans for a building or structure, and a building permit is issued for that building or structure, then a separate building permit will not be required for these units. Installation of separate or replacement heating units, regardless of the type of heat or the type of fuel used, shall require a Building Permit. Every electrical heat producing unit or unit having electrical controls in the unit shall comply with the Electrical Code of the Village. No smoke pipe or any part thereof shall project through any external wall or window. All smoke or heating exhaust pipes, except as provided in Section 29.1.8, shall be extended through the roof as provided elsewhere in this ordinance. **(Ord. #1660, 6/15/09)**

29.1.3 Fuel Usage

All fuels used in conjunction with any heat producing appliance or unit shall comply with the "Smoke Abatement and Control Ordinance" of the Village. (Section 18.413 - "Dense Smoke" - Flossmoor Municipal Code)

29.1.4 References

Unless otherwise provided herein, the installation or replacement of any and all heat producing units or appliances shall comply with the applicable provisions of the National Building Code of the American Fire Insurance Association, current edition at time of permit application, copies of which are on file with the Village Clerk.

29.1.5 Floor Clearances

All heat producing appliances or units shall be placed on a non-combustible floor and the unit shall have non-combustible supports providing a clearance of not less than four inches (4") between the floor and the bottom of the appliance and open on at least three (3) sides. Side and ceiling clearance shall be as provided for in the National Building Code of the American Fire Insurance Association.

29.1.6 Permits and Fees (Ord. 688, 8/18/80)

A building permit issued for residential space heating units installed separately or as replacement for units installed previously, will require a fee as stated in Chapter 25, Section 25.213 of the Flossmoor Municipal Code for each and every unit so installed, in addition to the Electrical Permit fee. **(FMC-307, 7/17/95)**

29.1.7 Specifications and Brochures and Design Standards

A specification or brochure, furnished by the manufacturers of the heating unit, will be attached to each Building Permit application and shall show all the technical data, including B.T.U. and output ratings of the appliance or unit and the recommended method to be followed during installation of the appliance or unit. Labeling or equipment or accessories approved by the Underwriters Laboratories, Inc., The American Gas Association, or the American Society of Mechanical Engineers or Commercial Standard Labeling will be accepted as conforming to design standards.

29.1.8 Horizontal Venting of Direct Vent Appliances (Ord. #1660, 6/15/09) (Ord. #1664, 7/20/09)

All appliances that utilize horizontal venting shall comply with manufacturers' recommendations for installation. No horizontal venting shall be permitted through the front or side exterior wall of the street side of the building or structure. All horizontal vent terminations shall be of a color which is consistent with the color of the exterior wall through which it exits.

29.2.0 Ventilation**29.2.1 Definition**

Ventilation is hereby defined as the providing and maintaining in rooms or spaces by natural or mechanical means, air conditions which will protect the health and comfort of the occupants thereof.

29.2.2 References

Unless otherwise provided for herein, all ventilation systems installed under this ordinance will comply with the National Building Code of American Fire Insurance Association.

29.2.3 Plan Requirements

All drawings submitted for a building permit will clearly show the ventilation duct supply and exhaust requirements for each room or area. In no case shall air conditioning be substituted for window glass requirement as covered elsewhere in this ordinance.

29.2.4 Ductwork Clearance

No ductwork on the output or heating side shall be placed directly against wood or flammable material for support. A separation distance of at least one inch (1") shall be maintained at all times between the hot air supply duct and combustible construction. No sheet metal duct shall be nailed directly to the structure for support. Hangers and clips that do not pierce the ductwork shall be used for duct supports and the hangers shall be nailed or secured to the structure.

29.2.5 Structural Changes Required

Any building structural changes or cutting required for the placing of pipes, piping, ducts, ductwork or accessories of a heating system or systems, shall be made in accordance with the structural requirements of this ordinance. All wood framing cut out to accommodate ductwork or piping shall be replaced by additional structural wood framing or otherwise reinforced in a manner acceptable to the Building Commissioner before being concealed by finish work.

29.3.0 Steam Boilers and Unfired Pressure Vessels**29.3.1 Definitions****29.3.2 Steam Boiler**

A device used for the purpose of evaporating water into steam, under pressure, defined as follows:

29.3.3 High Pressure Boiler

A boiler in which steam pressure is more than fifteen pounds per square inch (15 psi) above atmospheric pressure.

29.3.4 Low Pressure Boiler

A boiler in which steam pressure is less than fifteen pounds per square inch (15 psi) above atmospheric pressure.

29.3.5 Unfired Pressure Vessel

Any tank or pressure vessel used to contain air, water, or other substance under pressure, except tanks containing only water under pressure from the Village water mains.

29.3.6 Boilers or Pressure Vessels Subject to State or Federal Inspection

Boilers or pressure vessels subject to yearly State or Federal inspections are not subject to this ordinance and are exempt from yearly inspections as stated in this section of the ordinance.

29.3.7 Permits and Fees - When Required (Ord. 688, 8/18/80)

A Building Permit is required for each boiler, low pressure or high pressure, and for each unfired pressure vessel installed or replaced as a separate unit and multiple units which have not been included as a part of a building for which a Building Permit and an Electrical Permit have been issued. The fee for such separate Building Permit shall be as stated in Chapter 25, Section 25.205 of the Flossmoor Municipal Code for each residential size boiler or unit installed and a fee as stated in the same section for each commercial or industrial type unit. All applications for Building Permits in the above category shall include plans, specifications and a manufacturer's brochure acceptable to the Building Commissioner. **(FMC-307, 7/17/95)**