

**MECHANICAL CODE OF THE CITY OF LAWRENCE, KANSAS,  
JULY 1, 2016, EDITION**

Amending Article 6

**OF CHAPTER V OF THE CODE OF THE CITY  
OF LAWRENCE, KANSAS**



**City of Lawrence**

Incorporated By Reference Pursuant to K.S.A. 12-3009, *et seq.*, K.S.A. 12-3301 *et seq.*,  
and the Home Rule Authority of the City

Passed by the Governing Body of the City of Lawrence, Kansas

**Ordinance No. 9242**

Effective July 1, 2016

**SECTION 1.** Chapter V, Article 6 of the Code of the City of Lawrence, Kansas, 2015 Edition, and amendments thereto, is hereby amended to read as follows:

**ARTICLE 6. MECHANICAL CODE**

- 5-601      **MECHANICAL CODE ADOPTED AND INCORPORATED.**  
The *2015 International Mechanical Code*, published by the International Code Council, Inc., other than those portions hereinafter specifically deleted, modified, or amended, is hereby adopted as the City's Mechanical Code and is incorporated herein by reference as if set forth in full.
- 5-602      **OFFICIAL COPY.**  
Not less than one (1) copy of the *2015 International Mechanical Code* shall be marked or stamped "OFFICIAL COPY AS INCORPORATED BY ORDINANCE No. 9242," with all sections or portions deleted, modified, or amended clearly marked as such, and to which one (1) copy of this ordinance shall be affixed, shall be filed with the City Clerk, shall be open to inspection, and shall be available to the public during reasonable business hours. Additional official copies shall, at the cost of the City, be supplied to those officials and agencies charged with enforcement of the City's Mechanical Code.
- 5-603      **AMENDMENTS TO THE 2015 INTERNATIONAL MECHANICAL CODE.**  
The *2015 International Mechanical Code* is amended as set forth in the succeeding sections of this Article. These amendments shall not serve to delete, modify, or amend any discretely numbered section or subsection of the *2015 International Mechanical Code*, unless the section or subsection is specifically identified as being deleted, modified, or amended.
- 5-604      **The 2015 International Mechanical Code** is hereby amended by deleting CHAPTER 1, "SCOPE AND ADMINISTRATION."
- 5-605      **Section 303.3 of the 2015 International Mechanical Code** is hereby amended to read as follows:  
  
303.3 Prohibited locations. Fuel-fired appliances shall not be located in, or obtain combustion air from, any of the following rooms or spaces:
1.      Sleeping rooms.
  2.      Bathrooms.
  3.      Toilet rooms.
  4.      Storage closets.
  5.      Surgical rooms.
  6.      Hot tub rooms or saunas.
- Exceptions: This section shall not apply to the following appliances:
1.      Direct-vent appliances that obtain all combustion air directly from the outdoors.

2. Solid fuel-fired appliances, provided that the room is not a confined space and the building is not of unusually tight construction.
3. Appliances installed in a dedicated enclosure in which all combustion air is taken directly from the outdoors, in accordance with Chapter 7. Access to such enclosure shall be through a solid door, weather-stripped in accordance with the exterior door air leakage requirements of the 2015 International Energy Conservation Code and equipped with an approved self-closing device.

5-606

**Sections 307.2.2 and 307.4 of the 2015 International Mechanical Code** are hereby amended to read as follows:

**307.2.2 Drain pipe materials and sizes.** Components of the condensate disposal system shall be cast iron, galvanized steel, copper, cross-linked polyethylene, polybutylene, polyethylene, ABS, CPVC or PVC pipe or tubing. All components shall be selected for the pressure and temperature rating of the installation. Joints and connections shall be made in accordance with the applicable provisions of Chapter 7 of the 2015 International Plumbing Code relative to the material type. Condensate waste and drain line size shall be not less than 3/4-inch (19 mm) internal diameter and shall not decrease in size from the drain pan connection to the place of condensate disposal. Where the drain pipes from more than one unit are manifolded together for condensate drainage, ~~the pipe or tubing shall be sized in accordance with~~ the above drains must comply with all of the following:

1. The pipe or tubing shall be sized in accordance with Table 307.2.2;
2. A maximum of three (3) units may be connected together, unless a minimum 1½ inch common drain is used; and
3. The common drain must be provided with a cleanout for servicing.

5-607

**307.2.4 Traps.** Condensate drains shall be trapped as ~~required~~ recommended by the equipment or appliance manufacturer.

5-608

**Table 307.2.2, "Condensate Drain Sizing," of the 2015 International Mechanical Code** is hereby amended to read as follows:

**TABLE 307.2.2  
CONDENSATE DRAIN SIZING**

EQUIPMENT CAPACITY	MINIMUM CONDENSATE PIPE DIAMETER
<u>Up to 5 tons of refrigeration</u>	3/4 inch
<u>Up to 7 ½ tons of refrigeration</u>	1 inch
<u>Up to 50 tons of refrigeration</u>	<u>1 ½ inches</u>
<u>Up to 170 tons of refrigeration</u>	<u>2 inches</u>
<u>Up to 300 tons of refrigeration</u>	<u>3 inches</u>

1 inch = 25.4 mm, 1 ton = 3.517 kW.

5-609 **The 2015 International Mechanical Code is hereby amended by adding Section 401.1.1, which reads as follows:**

401.1.1 Standards. The current ASHRAE 62 standard may be substituted for the ventilation requirements of Chapter 4 of the 2015 International Mechanical Code.

5-610 **Section [BF] 601.2 of the 2015 International Mechanical Code is hereby amended to read as follows:**

[BF] 601.2 Air movement in egress elements. Corridors shall not serve as supply, return, exhaust, relief or ventilation air ducts.

Exceptions:

1. Use of a corridor as a source of makeup air for exhaust systems in rooms that open directly onto such corridors, including toilet rooms, bathrooms, dressing rooms, smoking lounges and janitor closets, shall be permitted, provided that each such corridor is directly supplied with outdoor air at a rate greater than the rate of makeup air taken from the corridor.
2. Where located within a dwelling unit, the use of corridors for conveying return air shall not be prohibited.
3. ~~Where located within tenant spaces of 1,000 square feet (93 m<sup>2</sup>) or less in area, utilization of corridors for conveying return air is permitted.~~
- 4.3. Incidental air movement from pressurized rooms within health care facilities, provided that the corridor is not the primary source of supply or return to the room.

5-611 **The 2015 International Mechanical Code is hereby amended by adding Section 603.5.2, which reads as follows:**

**603.5.2 Prohibition.** Rigid fibrous glass duct is prohibited.

**Exception:** In R occupancies, rigid fibrous glass duct is permitted, provided the duct is readily accessible for repair or cleaning.

5-612 **Section 603.6.1.1 of the 2015 International Mechanical Code is hereby amended to read as follows:**

**603.6.1.1 Duct length.** Flexible air ducts shall not be limited in length to 8 feet.

**Exception:** In R occupancies, flexible air ducts shall be limited in length to a maximum of 15 feet.

5-613 **Section 603.6.2 of the 2015 International Mechanical Code is hereby amended to read as follows:**

**Section 603.6.2 Flexible air connectors.** Flexible air connectors, both metallic and nonmetallic, shall be tested in accordance with UL 181. Such connectors shall be listed and labeled as Class 0 or Class 1 flexible air connectors and shall be installed in accordance with Section 304.1. Flexible air connectors may only be installed in Group R occupancies and only for environmental exhaust when located within the building thermal envelope.

5-614 **Section 603.8 of the 2015 International Mechanical Code** is hereby amended to read as follows:

**603.8 Underground ducts.** Ducts shall be approved for underground installation. Metallic underground ducts ~~not having an approved protective coating~~ shall be completely encased in a minimum of 2 inches (51 mm) of concrete.

5-615 **[BF] Section 607.4 of the 2015 International Mechanical Code** is hereby amended to read as follows:

**[BF] 607.4 Access and identification.** Fire and smoke dampers shall be provided with an approved means of access, ~~large enough to permit inspection and maintenance of the damper and its operating parts.~~ To permit inspection and maintenance of the damper and its operating parts, there shall be a minimum of 144 square inches access; when the duct is less than 12" wide, for access, the duct shall be equipped with a removable section of duct. Ceiling access must have a minimum 18"x18" access opening, with unobstructed access to the duct. The access shall not affect the integrity of fire-resistance-rated assemblies. The access openings shall not reduce the fire-resistance rating of the assembly. Access points shall be permanently identified on the exterior by a label having letters not less than 0.5 inch (12.7 mm) in height reading: FIRE/SMOKE DAMPER, SMOKE DAMPER or FIRE DAMPER. Access doors in ducts shall be tight fitting and suitable for the required duct construction.

5-616 **The 2015 International Mechanical Code** is hereby amended by adding **Section 1004.6.1**, which reads as follows:

**1004.6.1 Emergency Shutoff.** Any Boiler, whether for building heat or domestic hot water, having 200,000 Btu input and above, shall have an emergency shutoff located outside the boiler room. The switch must be labeled with a red tag and white letters that clearly read "EMERGENCY BOILER SHUTOFF".

**Exception:** When approved by the State Boiler Inspector, the switch may be located inside the boiler room.