

Sec. 18-76. International Mechanical Code – Adopted and Amended

(A) A certain document, one copy of which is on file in the City Clerk's Office of the City of Peoria, being marked and designated as "International Mechanical Code, ~~2015~~ 2018 Edition," published by the International Code Council is hereby adopted, as amended herein, as the Mechanical Code of the City of Peoria.

(B) The International Mechanical Code, ~~2015~~ 2018 Edition, is amended as follows:

(1) Chapter 1, "Scope and Administration," is hereby amended as follows:

Note: For "RESERVED" sections herein, refer to the Building Code of the City of Peoria for these code requirements.

Amend Section 101.1 Title, by inserting the words "City of Peoria" as the name of the Jurisdiction.

Delete Chapter 1, Part 2-Administration and Enforcement in its entirety and replace with the following:

Part 2- Administration and Enforcement

Section 103 Department of Mechanical Inspection – RESERVED.

Section 104 Duties and Powers of the Code Official – RESERVED.

Section 105 Approval – RESERVED.

Section 106 Permits – RESERVED.

Section 107 Inspections and Testing – RESERVED.

Section 108 Violations – RESERVED.

Section 109 Means of Appeal –RESERVED.

Section 110 Temporary Equipment, Systems and Uses – RESERVED.

(2) Chapter 3, "General Regulations", is hereby amended as follows:

Amend Section 307.2.2 Drain pipe materials and sizes to read as follows:

307.2.2 Drain pipe materials and sizes. Nonmetallic piping shall not be installed in exposed locations. Components of the condensate disposal system shall be cast iron, galvanized steel, copper, cross-linked polyethylene, polyethylene, ABS, CPVC, PVC, or polypropylene pipe or tubing.

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 *International Plumbing Code* relative to the material type. Condensate waste and drain line size shall not be less than 3/4-inch (19.1 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 Table 307.2.2.

Amend Section BG 309.1 Space heating systems to read as follows:

[BG] 309.1 Heating and cooling systems. Habitable spaces shall be provided with active or passive space-heating and space cooling systems capable of maintaining temperatures between 70 °F (21 °C) and 90°F (32°C) at a point 3 feet (914 mm) above the floor. The installation of portable space heaters or coolers shall not be used to achieve compliance with this section.

Exceptions:

1. Space heating and cooling systems are not required for Interior spaces where the primary purpose is not associated with human comfort.
2. Group F, H, S, and U occupancies

(3) Chapter 4, "Ventilation", is hereby amended as follows:

403.3.1.5 Balancing. The *ventilation* air distribution system shall be provided with means to adjust the system to achieve at least the minimum ventilation airflow rate as required by Sections 403.3 and 403.3.1.2. Ventilation systems shall be balanced using a nationally accepted air balancing test method. Such balancing shall verify that the ventilation system is capable of supplying and exhausting the airflow rates required by Sections 403.3 and 403.3.1.2. A final report shall be provided to the engineer of record and the mechanical inspector.

Exception: Residential occupancies

Amend Section 403.3.1.5 "Balancing" to read as follows:

403.3.1.5 Balancing.

The *ventilation* air distribution system shall be provided with means to adjust the system to achieve not less than the minimum ventilation airflow rate as required by sections 403.3 and 403.3.1.2. Ventilation systems shall be balanced using a nationally accepted air balancing test by an approved method. Such balancing shall verify that the ventilation system is capable of supplying and exhausting the airflow rates required by Sections 403.3 and 403.3.1.2. A final report shall be provided to the engineer of record and the mechanical inspector.

Amend Section 407 “Ambulatory Care Facilities and Group I-2 Occupancies” to read as follows:

407.1 General.

Mechanical ventilation for ambulatory care facilities and Group I-2 occupancies shall be designed and installed in accordance with this code and ASHRAE 170.

407.1.1

Mechanical systems designed and installed in accordance with IMC 407.1 and ASHRAE 170-2017 shall be verified by a qualified third party Special Inspector. The Special Inspector/testing agency shall be an independent third party individual or firm and shall not be the installing contractor. A report shall be generated by the third party individual or firm showing compliance. Special inspections shall be as specified in Chapter 17 of the International Building Code as amended.

Add a new Section 408 “Marijuana Related Occupancies” to read as follows:

408 MARIJUANA RELATED OCCUPANCIES

408.1 General.

Any building used to cultivate, produce, infuse or dispense marijuana shall be designed such that there shall be no emission of dust, fumes, vapors, or odors into the environment from the premise. A ventilation system shall be designed to prevent the distribution of odors to other occupied parts of the building or adjacent properties. Design of the odor control system shall be based on accepted engineering practices. All equipment and filter media shall be listed and labeled for the application. Exhaust systems used in odor control systems shall meet the requirements of Section 501.

408.1.1 Exhaust outlets.

The termination point for exhaust outlets shall be in accordance with Section 501.3. Exhaust from cultivation and production facilities shall be in accordance with Section 501.3.1(2) and for dispensaries in accordance with Section 501.3.1(3).

(4) Chapter 5, “Exhaust Systems”, is hereby amended as follows:

502.14 Motor vehicle operation. In areas where motor vehicles operate, mechanical ventilation shall be provided in accordance with Section 403. Additionally, areas in which stationary motor vehicles are operated shall be provided with a *source capture system* that connects directly to the motor vehicle exhaust systems. Makeup air shall be provided through permanent unobstructed openings to the outdoors, such as louvers and grills. Mechanical equipment and louvers used for makeup air purposes shall be electrically

interlocked with the exhaust system. Such system shall be engineered by a registered design professional or shall be factory-built equipment designed and sized for the purpose.

Exceptions:

1. This section shall not apply where the motor vehicles being operated or repaired are electrically powered.
2. This section shall not apply to one- and two-family dwellings.
3. This section shall not apply to motor vehicle service areas where engines are operated inside the building only for the duration necessary to move the motor vehicles in and out of the building

Add a new Section 502.21 "Storage and use of carbon dioxide (CO₂) systems" to read as follows:

502.21 Storage and use of liquid carbon dioxide (CO₂) systems.

Indoor or outdoor areas that contain liquid carbon dioxide (CO₂) stored in ASME pressure vessels in new and existing facilities shall be provided with mechanical exhaust ventilation in accordance with this section.

Exception: Outdoor storage areas in non-enclosed spaces designed to prevent the collection of vapors when approved by the *Fire Marshal*.

502.21.1 System requirements.

Exhaust ventilation systems for liquid carbon dioxide CO₂ tanks shall comply with all of the following:

1. The installation shall be in accordance with this code and the *Phoenix Fire Code*.
2. Mechanical ventilation shall be provided at a rate of not less than 1 cfm per square foot [0.00508 m³/(s • m²)] of floor area over the storage area.
3. The system shall operate continuously unless alternate designs are approved by the *Fire Marshal*.
4. A manual start control shall be provided outside of the room in a position adjacent to the access door to the room or in another approved location. The switch shall be a break-glass or other approved type and shall be labeled: VENTILATION SYSTEM EMERGENCY ON-ONLY.
5. Exhaust ventilation shall be designed to consider the density of the potential vapors released. For liquid CO₂ systems, exhaust shall be taken from a point within 12 inches (305 mm) of the floor.
- 6 Makeup air shall be provided. The location of both the exhaust and makeup air openings shall be designed to provide air movement across all portions of the floor or room to prevent the accumulation of vapors.

7. Exhaust air shall not be recirculated to occupied areas. Exhaust termination shall be located where it will not allow for a dangerous accumulation of vapors and in accordance with Section 501.3.1 (2).

8. Sensors, controls, alarms, piping and all accessory components shall be as prescribed by the Peoria Fire Department.

(5) Chapter 6, "Duct Systems", is hereby amended as follows:

Amend Section 606.2.1 Return air systems to read as follows:

606.2.1 Air distribution systems. Smoke detectors shall be installed in air distribution systems downstream of the filters and ahead of any branch connections in systems having a design capacity greater than 2,000 cfm (0.9m³/s).

Exception: Smoke detectors are not required where all portions of the building served by the air distribution system are protected by area smoke detectors connected to a fire alarm system in accordance with the *International Fire Code*. The area smoke detection system shall comply with Section 606.4.

Amend Section 606.5 Testing to read as follows:

606.5 Testing. Smoke detectors shall be tested by an approved testing agency or a qualified third party Special Inspector. The Special Inspector/testing agency shall be an independent third party individual or firm and shall not be the installing contractor. Special Inspections shall be as specified in Chapter 17 of the *International Building Code* as amended.

Amend Section 607.2 Installation to read as follows:

607.2 Installation. Fire dampers, smoke dampers, combination fire/smoke dampers and ceiling radiation dampers located within air distribution and smoke control systems shall be installed in accordance with the requirements of this section, and the manufacturer's installation instructions and listing. Dampers shall be tested by an approved testing agency or a qualified third party special inspector. The special inspector/testing agency shall be an independent third party individual or firm and shall not be the installing contractor. Special inspections shall be as specified in Chapter 17 of the *International Building Code*, as amended.

(6) Chapter 9, "Specific Appliances, Fireplaces and Solid Fuel-Burning Equipment", is hereby amended as follows:

Amend Section 928 "Evaporative Cooling Equipment" to read as follows:

928.1 General.

Evaporative cooling equipment shall:

1. Be installed in accordance with the manufacturer's instructions.
2. Be installed on level platforms in accordance with Section 304.10. An evaporative cooler supported by the building structure shall be installed on a substantial level base and shall be secured directly or indirectly to the building structure by suitable means to prevent displacement of the cooler. Modifications made to the supporting framework of buildings as a result of the installation shall be made in accordance with the requirements of the *International Building Code* as amended.
3. Have openings in exterior walls or roofs flashed in accordance with the *International Building Code* as amended.
4. Be provided with potable water backflow protection in accordance with Section 608 of the *International Building Code, as amended.*
5. Have air intake opening locations in accordance with Section 401.4.
6. A permanent relief opening or other engineered design sufficient to assure positive airflow shall balance intake air.
7. Outside air shall be provided as specified in Section 403.2.
8. Air ducts and dampers, which are a portion of an evaporative cooling system, shall comply with Chapter 6.
9. Overflow drains shall be provided that discharge to an approved disposal location and comply with the Peoria Building Code.

Add a new Section 930 ~~29~~ Wood Stove/Fireplace Installation to read as follows:

Section 930~~29~~ Wood Stove/Fireplace Installation.

930~~29~~.1 Definitions. For purposes of this section, the following words and terms shall have the meaning ascribed thereto:

Fireplace: A built-in-place masonry hearth and fire chamber or a factory-built appliance, designed to burn solid fuel or to accommodate gas or electric log insert or similar device, and which is intended for occasional recreational or aesthetic use, not for cooking, heating, or industrial processes.

Solid fuel: Includes, but is not limited to, wood, coal, or other non-gaseous or non-liquid fuels, including those fuels defined by the Maricopa Air Pollution Officer as “inappropriate fuel” to burn in residential wood burning devices.

Woodstove: A solid-fuel burning heating appliance including a pellet stove, which is either freestanding or designed to be inserted into a fireplace.

93029.2 General. No person, firm, or corporation shall construct or install a fireplace or wood stove, and the Building Official shall not approve or issue a permit to construct or install a fireplace or wood stove, unless the fireplace or wood stove complies with one of the following:

1. A fireplace which has a permanently installed gas or electric log insert.
2. A fireplace, wood stove, or other solid fuel burning appliance which has been certified by the United States Environmental Protection Agency as conforming to 40 Code of Federal Regulations part 60, subpart AAA.
3. A fireplace, wood stove, or other solid fuel burning appliance that has been tested and listed by a nationally recognized testing agency to meet performance standards equivalent to those adopted by 40 Code of Federal Regulations part 60, subpart AAA.
4. A fireplace, wood stove, or other solid fuel burning appliance which has been determined by the Maricopa County Air Pollution Control Officer to meet performance standards equivalent to those adopted by 40 Code of Federal Regulations part 60, subpart AAA, as in effect on July 1, 1990.
5. A fireplace which has a permanently installed wood stove insert which complies with subparagraph 2, 3, or 4 above.

Exceptions: The following installations are not regulated and are not prohibited by this section:

Furnaces, boilers, incinerators, kilns, and other similar space heating or industrial process equipment.

Cook stoves, barbecue grills, and similar appliances designed primarily for cooking.

Fire pits, barbecue grills, and other outdoor fireplaces.

93029.3 Fireplace or wood stove installations prohibited. Fireplaces constructed or installed on or after May 1, 2017, June 30, 1990, that contain a gas or electric log insert or a wood stove insert, shall not be altered to directly burn wood or any other solid fuel.

On or after May 1, 2017, no person, firm, or corporation shall alter a fireplace, wood stove, or other solid-fuel burning appliance in any manner that would void its certification or operational compliance with the provisions of this section.

Fireplaces constructed or installed on or after ~~May 1, 2017~~, June 30, 1990 shall not be altered without first obtaining a permit from the City to ensure compliance with this section.