



Since it was founded in 1926, The International Association of Plumbing and Mechanical Officials (IAPMO) has provided jurisdictions everywhere with a plumbing code that helps protect the health and safety of each and every citizen. That code is now the basis for plumbing codes around the globe that offer protection to approximately half of the entire world's population.

TRUSTED

"I have had the unique honor of chairing the UMC Technical Committee. Witnessing the diversity of the technical contributors, observing the broad-based experience of the members, and receiving input from a multitude of industry experts and manufactures, results in a dynamic, evolving, and user-friendly Code. This synergized effort produces the best possible outcome as it relates to energy conservation and consumer safety."

Harvey Kreitenberg, UMC TC Chair
Harvey Kreitenberg & Associates

GLOBAL

World Headquarters – Ontario, California – USA

- Abu Dhabi
- Argentina
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- Canada
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2024 UNIFORM MECHANICAL CODE®

AN AMERICAN NATIONAL STANDARD
IAPMO/ANSI UMC 1 – 2024



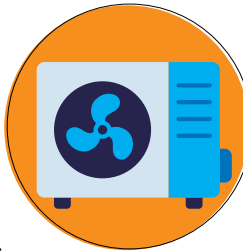
AMERICAN NATIONAL STANDARD

The *Uniform Mechanical Code*® (*UMC*) is developed using the American National Standard Institute's consensus-development procedures. This ensures due process, openness and balance, and brings together stakeholders representing a variety of viewpoints and interests to achieve true consensus on the proper installation and inspection of mechanical systems. The *UMC* is the only mechanical code to be designated as an American National Standard. This process, in which all parties have a voice and a vote, ensures the *UMC* is a comprehensive document that promotes the public's health, safety and welfare.



PROVISIONS

The *UMC* maintains the necessary balance between prescriptive requirements and allowable performance standards; it details exactly how heating and cooling systems need to go together.



Enforcement is simplified, as there are fewer areas for field interpretation, and the code allows engineered design systems by architects and the professional design community. The *UMC* maintains proven health and safety standards, while remaining current with technology. It is the most cost-effective, consistent and easy-to-use code available in the industry.

Key provisions of the 2024 *UMC*, and changes from the 2021 edition include:

- New minimum air filtration requirements for occupied spaces of mechanically ventilated buildings;
- Revised outdoor air intake requirements for transient occupancies;
- New air balancing requirements for ventilation systems;
- New exceptions for materials exposed with ducts or plenums;
- New provisions for high-probability systems using Group A2L refrigerants for human comfort applications;
- New refrigerant safety group classifications based on flammability and toxicity;
- New requirements for refrigeration machinery rooms where A2L and B2L refrigerants are used;
- New materials standards for refrigerant piping, tubing, and fittings;
- New design requirements for geothermal district ambient temperature loop (ATL) systems;
- New Appendix H providing minimum qualifications for installers, inspectors, or employers for systems covered by the *UMC*;
- New Appendix I covering mechanical system requirements for indoor horticultural facilities; and
- New Appendix J addressing CO₂ monitoring and clean air delivery for adequate ventilation in occupied spaces.

COMPREHENSIVE

The *UMC* is published utilizing IAPMO's proven "turn-key" philosophy, placing as much of the necessary information concerning installations as possible in one codebook. This philosophy eliminates the problems and confusion caused by the use of multiple codes to install or inspect the mechanical provisions of a single installation or system. Other code developers use six books to perform the same functions at four times the cost.



GREEN

Progressive municipalities and jurisdictions seeking to be on the leading edge of sustainable initiatives will find an invaluable ally in IAPMO and the *Uniform Mechanical Code*®.



SUPPORTING MATERIALS

- Uniform Mechanical Code Illustrated Training Manual
- Uniform Mechanical Code Study Guide
- Guide to Important Code Changes
- Water Efficiency and Sanitation Standard (WE•Stand)
- IAPMO Codes app provides access to purchased codes and code-development related information; allows annotations, voice recordings and offline viewing.

Download the "IAPMO Codes" mobile application to receive notifications and attain latest information. IAPMO provides code answers, analysis and interpretations free to anyone requesting them and has a toll free request line, 1-800-201-0335.

