



2021 Uniform Mechanical Code®

AN AMERICAN NATIONAL STANDARD
IAPMO/ANSI UMC 1 – 2021

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

GLOBAL

World Headquarters – Ontario, California – USA

- Abu Dhabi
- Argentina
- Australia
- Canada
- China
- Germany
- India
- Indonesia
- Mexico
- USA

TRUSTED

"I am pleased to be part of the team that worked on the 2021 Uniform Mechanical Code. IAPMO protects the public's health and safety through these efforts. The new geothermal HVAC sections in the 2021 UMC are in lock-step with the growth of Clean Heating and Cooling in the industry."

Jay Egg, CMC
President, EggGeothermal



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AMERICAN NATIONAL STANDARD

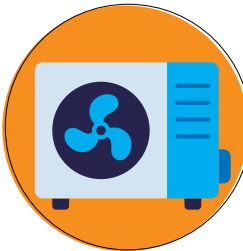
The *Uniform Mechanical Code® (UMC)* is developed using the American National Standard Institute's consensus-development procedures.

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 2021 *UMC*, and changes from the 2018 edition include:

- New Appendix F – Geothermal Energy Systems
- New guards and rails requirements for installation of equipment and appliances on roofs
- New ventilation requirements for transient and nontransient occupancies
- New ventilation requirements for indoor air quality for residential occupancies
- Revisions to the requirements for air ducts, including factory-made air ducts and dampers
- New provisions for factory-built grease ducts
- New provisions for refrigeration systems, including pressure-limiting devices and hydrostatic expansion
- Revisions to the sizing requirements for natural gas and propane piping systems
- Modifications to the pressure rating requirements for hydronic piping applications
- New requirements for fuel gas piping appliance shutoff valves, test pressure, and overpressure protection devices
- New tube fastener provisions for radiant heating and cooling
- New requirements for residential compressed natural gas (CNG) fueling systems
- New fire-extinguishing equipment and carbon monoxide detection requirements for exhaust systems

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 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.

IAPMO provides code answers, analysis and interpretations free to anyone requesting them and has a toll free request line, 1-800-201-0335.

