ANSI/AHRI Standard 110-2024 (SI/I-P)

Air-conditioning, Heating and Refrigerating Equipment Nameplate Voltages

Approved American National Standard

ANSI

AHRI
AIR-CONDITIONING, HEATING, & REFRIGERATION INSTITUTE
we make life better®

2311 Wilson Blvd, Suite 400
Arlington, VA 22201 USA
www.ahrinet.org
Phone: (703) 524-8800

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Full document details: AHRI Standard 110-2024 - Air-conditioning, Heating and Refrigerating Equipment Nameplate Voltages

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IMPORTANT

SAFETY DISCLAIMER

AHRI does not set safety standards and does not certify or guarantee the safety of any products, components or systems designed, tested, rated, installed or operated in accordance with this standard/guideline. It is strongly recommended that products be designed, constructed, assembled, installed and operated in accordance with nationally recognized safety standards and code requirements appropriate for products covered by this standard/guideline.

AHRI uses its best efforts to develop standards/guidelines employing state-of-the-art and accepted industry practices. AHRI does not certify or guarantee that any tests conducted under its standards/guidelines will be non-hazardous or free from risk.

ICS Code: 29.020

Note:

This standard supersedes AHRI Standard 110-2016.

AHRI CERTIFICATION PROGRAM DISCLAIMER

AHRI Standards are developed independently of AHRI Certification activities and can have scopes that include products that are not part of the AHRI Certification Program. The scope of the applicable AHRI Certification Program can be found on AHRI's website.

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Intent

This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors, and users.

Review and Amendment

This standard is subject to review and amendment as technology advances.

2024 Edition

This edition of AHRI Standard 110, *Air-conditioning, Heating, and Refrigerating Equipment Nameplate Voltages*, was prepared by the Electrical Standards Technical Committee (STC). The standard was approved by the Multi-sector Standards Subcommittee (SSC) on 19 February 2024. This standard was approved as an American National Standard (ANS) on 21 March 2024.

Origin and Development of AHRI Standard 110

The initial publication was ARI Standard 110-1990, *Air-Conditioning and Refrigerating Equipment Nameplate Voltages*. Subsequent revisions were:

ARI Standard 110-1997, *Air-Conditioning and Refrigerating Equipment Nameplate Voltages*

ANSI/AHRI Standard 110-2002, *Air-Conditioning, Heating and Refrigerating Equipment Nameplate Voltages*

ANSI/AHRI Standard 110-2012, *Air-Conditioning, Heating and Refrigerating Equipment Nameplate Voltages*

AHRI Standard 110-2016, *Air-Conditioning, Heating and Refrigerating Equipment Nameplate Voltages*

Summary of Changes

ANSI/AHRI Standard 110-2024 (SI/I-P) contains the following update(s) to the previous edition:

- Update references to current versions
- Reaffirm that the standard remains applicable in 50 hertz countries

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Committee Personnel

Electrical Standards Technical Committee

Company/Organization	Participant	Voting Role
Voting Organizations		
ebm-papst Inc.	Armin Hauer, Chair	Primary
Carrier Corporation	Ismail Agirman	Primary
Daikin Applied Americas Inc.	Joe Schoen	Primary
Hussmann Corporation	Ron Shebik	Primary
Lennox International Inc.	Ravi Gurunarayana	Primary
Mitsubishi Electric Cooling & Heating	Jeremy Tidd	Primary
	Alvaro Araque	Alternate
Nidec Motor Corporation	Tim Albers	Primary
Trane Technologies	Vijaya Chauhan	Primary
Nonvoting Organizations		
Daikin Manufacturing Company, L.P.	Daisuke Oshimi	Nonvoter
	Dominic Poon	Nonvoter
Maria Woodbury		AHRI Staff Liaison

Electrical Standards Technical Committee Scope:

The Electrical Standards Technical Committee (STC) is responsible for the development and maintenance of AHRI standards and guidelines pertaining to electrical voltage rating and operating limit requirements for air-conditioning and refrigerating equipment.

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Multi-sector Standards Subcommittee

Company/Organization	Participant	Voting Role
Voting Organizations		
Copeland	Jennifer Butsch, Chair	Primary
Carrier Corporation	Scott MacBain	Primary
Daikin Comfort Technologies Manufacturing, L.P.	Jeff Whitelaw	Primary
Danfoss	Brian Dail	Primary
Parker Hannifin Corporation	John Withouse	Primary
The Chemours Company FC, LLC	Esther Rosenberg	Primary
Karl Best		AHRI Staff Liaison

Multi-sector Standards Subcommittee Scope:

The scope of the Multi-sector Standards Subcommittee (SSC) is standards and guidelines related to components that are part of and methods that are for end products from any AHRI product sector. (The definition of and list of products associated with each sector are found on AHRI's website.)

These lists represent the membership at the time the Standards Technical Committee (STC) and Standards Subcommittee (SSC) were balloted on the final text of this edition. Since that time, changes in the membership may have occurred. Membership on these committees shall not in and of itself constitute an endorsement by the committee members or their employers of any document developed by the committee on which the member serves.

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Multi-sector Standards Consensus Body

Participant	Interest Category Classification
Mike Devine Tecumseh Products Company	Component Manufacturer
Henry Ernst Daikin Applied Americas Inc.	Product Manufacturer
Caroline Henley UL Solutions	Testing Laboratory
Paul Lindahl SPX Cooling Technologies, Inc.	Product Manufacturer
W. Vance Payne National Institute of Standards & Technology	Testing Laboratory
Karl Peterman Swegon North America Inc.	Product Manufacturer
Charles Plourde-LeBlanc Nortek Air Solutions, LLC	Product Manufacturer
Greg Woyczynski Association of Home Appliance Manufacturers	General Interest

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