

ARI 210/240-2003

ARI 210/240-2003 Standard: Unitary Air-Conditioning and Air-Source Heat Pump Equipment

Instruction Manual

1. INTRODUCTION AND SCOPE

The purpose of the ARI 210/240-2003 standard is to establish comprehensive guidelines for unitary air-conditioning and air-source heat pump equipment. This document defines the framework for classification, testing, rating, and operational parameters for such equipment.

This standard specifically applies to factory-made residential, commercial, and industrial equipment as detailed in sections 3.2 and 3.3 of the full standard document. It ensures consistency and reliability across the industry for these product types.



Figure 1: Generic representation of a technical standard document.

2. DEFINITIONS AND CLASSIFICATION

This section of the standard provides precise definitions for various terms related to unitary air-conditioning and air-source heat pump equipment. It outlines the criteria for classifying different types of equipment based on their design, capacity, and intended application.

- **Definitions:** Clarifies terminology used throughout the standard to ensure consistent understanding.
- **Classification:** Categorizes equipment to facilitate appropriate application of testing and rating procedures.

3. REQUIREMENTS FOR TESTING, RATING, AND OPERATING

The standard details the specific requirements for testing, rating, and operating unitary equipment. These requirements are crucial for evaluating performance, ensuring energy efficiency, and verifying compliance with industry benchmarks.

1. **Testing Procedures:** Specifies methods for conducting performance tests under controlled conditions.

- 2. **Rating Conditions:** Defines the environmental and operational parameters under which equipment performance is rated.
- 3. **Operating Parameters:** Outlines acceptable ranges and conditions for equipment operation to ensure safety and efficiency.

4. MARKING AND NAMEPLATE DATA

This section mandates the information that must be present on the marking and nameplate data of compliant equipment. Accurate and complete labeling is essential for identification, regulatory compliance, and user information.

Required information typically includes:

- Manufacturer's name and model number.
- Electrical ratings (voltage, amperage, frequency).
- Cooling and heating capacities.
- Energy efficiency ratings (e.g., SEER, HSPF).
- Refrigerant type and charge.

5. CONFORMANCE CONDITIONS

The standard specifies the conditions under which equipment is deemed to conform to the ARI 210/240-2003 requirements. Adherence to these conditions ensures that products meet the established performance and safety benchmarks.

Manufacturers must demonstrate compliance through rigorous testing and documentation, ensuring that their unitary air-conditioning and air-source heat pump equipment aligns with all aspects of this standard.

6. STANDARD SPECIFICATIONS

Key Details of ARI 210/240-2003 Standard

Specification	Detail
ASIN	B07HWTPTGH
Publisher	Air-Conditioning, Heating, and Refrigeration Institute (formerly ARI)
Publication Date	January 1, 2003
Language	English

7. FURTHER INFORMATION AND SUPPORT

For detailed information, including the full text of the standard, amendments, or interpretations, please refer to the official publications from the Air-Conditioning, Heating, and Refrigeration Institute (AHRI).

This manual provides a summary of the key aspects of the ARI 210/240-2003 standard. For complete compliance and technical specifications, it is recommended to consult the authoritative document directly.

You can typically purchase or access the full standard through the AHRI website or authorized distributors of technical standards.

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