



# UL 61010-2-011

## STANDARD FOR SAFETY

Safety Requirements for Electrical  
Equipment for Measurement, Control,  
and Laboratory Use – Part 011:  
Particular Requirements for  
Refrigerating Equipment

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UL Standard for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 011: Particular Requirements for Refrigerating Equipment, UL 61010-2-011

Second Edition, Dated May 13, 2021

### **Summary of Topics**

***This New Edition of ANSI/UL 61010-2-011 is an Adoption of IEC 61010-2-011, Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 011: Particular Requirements for Refrigerating Equipment (second edition, issued by IEC March 2019) as a new IEC-based UL Standard, UL 61010-2-011 with US National Differences.***

The new requirements are substantially in accordance with Proposal(s) on this subject dated October 20, 2020 and February 5, 2021.

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**UL 61010-2-011**

**Safety Requirements for Electrical Equipment for Measurement, Control,  
and Laboratory Use – Part 011: Particular Requirements for Refrigerating  
Equipment**

First Edition – January, 2017

**Second Edition**

**May 13, 2021**

This ANSI/UL Standard for Safety consists of the Second Edition.

The most recent designation of ANSI/UL 61010-2-011 as an American National Standard (ANSI) occurred on May 13, 2021. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or Preface. The National Difference Page and IEC Foreword are also excluded from the ANSI approval of IEC-based standards.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <https://csds.ul.com>.

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## PREFACE

This UL Standard is based on IEC Publication 61010-2-011: second edition, Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 011: Particular Requirements for Refrigerating Equipment. IEC publication 61010-2-011 is copyrighted by the IEC.

This edition has been issued to satisfy UL Standards policy.

This UL Standard 61010-2-011 Standard for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 011: Particular Requirements for Refrigerating Equipment, is to be used in conjunction with the third edition of UL 61010-1. The requirements for particular requirements for refrigerating equipment are contained in this Part 2 Standard and UL 61010-1.

Requirements of this Part 2 Standard, where stated, amend the requirements of UL 61010-1.

Where a particular subclause of UL 61010-1 is not mentioned in UL 61010-2-011, the UL 61010-1 subclause applies.

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Note – Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.

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## NATIONAL DIFFERENCES

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There are five types of National Differences as noted below. The difference type is noted on the first line of the National Difference in the standard. The standard may not include all types of these National Differences.

**DR** – These are National Differences based on the **national regulatory requirements**.

**D1** – These are National Differences which are based on **basic safety principles and requirements**, elimination of which would compromise safety for consumers and users of products.

**D2** – These are National Differences from IEC requirements based on existing **safety practices**. These requirements reflect national safety practices, where empirical substantiation (for the IEC or national requirement) is not available or the text has not been included in the IEC standard.

**DC** – These are National Differences based on the **component standards** and will not be deleted until a particular component standard is harmonized with the IEC component standard.

**DE** – These are National Differences based on **editorial comments or corrections**.

Each national difference contains a description of what the national difference entails. Typically one of the following words is used to explain how the text of the national difference is to be applied to the base IEC text:

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