

STANDARD INFORMATION

Standard: UL 1963

Standard ID: Standard for Refrigerant Recovery/Recycling Equipment [UL 1963:2011 Ed.4+R:25Mar2021]

Previous Standard ID: Standard for Refrigerant Recovery/Recycling Equipment [UL 1963:2011 Ed.4+R:11Oct2013]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **March 25, 2024**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- Addition of requirements for remotely operated refrigerant recovery/recycling equipment
- Update of motor-protection requirements
- Wiring subjected to movement
- Revisions to marking requirements
- Refrigerant requirement revisions
- Revisions for hose assembly requirements for flammability for class 2 and class 3 refrigerants

Specific details of new/revised requirements are found in table below.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>
10	Info	Field Supply Connections
10.4	Info	Grounding
10.4.7		<i>New clause added;</i> Functional grounding shall not be relied upon for equipment grounding.
14	Info	Bonding for Grounding
14.16		<i>New clause added;</i> Functional grounding shall not be relied upon for equipment bonding.
17A		Remotely Operated Equipment Any function of a product enabled in response to external communication or data signals shall be considered when determining normal and abnormal conditions of the product. See standard for details.
19	Info	Motor Overload Protection
19.2	Info	Protection of single-phase nonhermetic motors
19.2.1.1		<i>New clause added;</i> In reference to 19.2.1(d) and (e), a motor that moves air by means of a fan that is not integrally attached, keyed, or otherwise fixed directly to the motor shaft shall be evaluated for running heating protection.
	Info	REFRIGERANT SYSTEM
		<i>New section added;</i> Refrigerants
44	Info	The equipment employing or intended for use with a refrigerant having a flammability safety group classification exceeding Class 1 as described by the Standard for Designation and Safety Classification of Refrigerants, ANSI/ASHRAE 34 shall comply with: See standard for details.



CLAUSE	VERDICT	COMMENT
		<i>New section added;</i>
82A		Wiring Endurance Test Equipment with wiring subjected to movement as specified in 12.1.10 shall be tested in accordance with 82A.2 – 82A.5. At the conclusion of the testing, the equipment shall comply with all of the following: See standard for details.
		<i>New section added;</i>
86A		Refrigerant Identification Tests These tests are applicable to refrigerants required to be subjected to a compositional analysis in accordance with 44.3 (b) and 44.4. See standard for details.
		<i>New section added;</i>
90B		Annual Refrigerant Identification A refrigerant tested in accordance with the Infrared Analysis in 86A.2 shall be subjected to an annual infrared analysis conducted in accordance with 86A.2. See standard for details.
	Info	MARKING
91	Info	General
		<i>New clause added;</i>
91.1		In reference to 91.1, if a label complies with UL 969, it shall also comply with the following: a) For indoor use equipment – The indoor use, exposure to high humidity and occasional exposure to water at air ambient temperatures above 32°F (0°C), requirements shall be applied. b) For outdoor use equipment – The indoor and outdoor use, where exposed to high humidity or occasionally to water, requirements shall be applied.
94	Info	Installation and Operating Instructions
		<i>New clause added;</i>
94.13		In reference to 17A.4, the instructions for a product intended to be remotely operated and in which the attachment plug of the product and receptacle serve as the manual means for disconnecting remote operation commands, external communication or data signals shall specify that unplugging the product disconnects the remote functions.



CLAUSE	VERDICT	COMMENT
Supplement SB	Info	REQUIREMENTS FOR REFRIGERANT RECOVERY/RECYCLING EQUIPMENT INTENDED FOR USE WITH A FLAMMABLE REFRIGERANT
SB4	Info	Refrigerant Recovery/Recycling Equipment Hose Assemblies
SB4.1	Info	Hose assemblies for use with flammability class 2L, 2 and 3 refrigerants
SB4.1.1		Hose assemblies for use with a refrigerant having a flammability safety group classification of Class 2L, <u>2</u> and <u>3</u> as described by the Standard for Designation and Safety Classification of Refrigerants, ASHRAE 34 shall comply with 58.1 – 58.10 and SB4.1.2 – SB4.1.3.