

STANDARDS UPDATE NOTICE (SUN) ISSUED: June 18, 2018

STANDARD INFORMATION

This SUN establishes Continued Certification for currently Listed UL 250 / CSA C22.2 No 63 Listing Reports and introduces UL 60335-2-24 / CSA C22.2 No 60335-2-24 as the superseding standard.

Superseded Standard: UL 250 / CSA C22.2 No. 63 (10th Ed) Household Refrigerators and Freezers

Superseding Standard: UL 60335-2-24 / CSA C22.2 No. 60335-2-24 (2nd Ed) Household and Similar Electrical Appliances - Safety - Part 2-24: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances and Ice-Makers

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: March 31, 2019

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement:

Equipment certified to UL 250 / CSA C22.2 No 63 is transitioning to UL 60335-2-24 / CSA C22.2 No 60335-2-24 (Second edition published 2017/04/28). This change was driven by the need for harmonization rather than driven by safety issues. Due to this, the Continuing Certification Process is being used and an attempt has been made to minimize the steps necessary to transition an already certified UL 250 / CSA C22.2 No 63 product to a UL 60335-2-24 / CSA C22.2 No 60335-2-24 certified product.

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

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action Required:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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.

Standards Update Notice KR/KM



STANDARD INFORMATION

SECTION PARAGRAPH CLAUSE	SUMMARY OF REQUIREMENTS	ACTION
All	Equipment certified to UL 250 / CSA C22.2 No 63 is transitioning to UL 60335-2-24 / CSA C22.2 No 60335-2-24 (Second edition published 2017/04/28). This change was driven by the need for harmonization rather than driven by safety issues. Due to this, the Continuing Certification Process is being used and an attempt has been made to minimize the steps necessary to transition an already certified UL 250 / CSA C22.2 No 63 product to a UL 60335-2-24 / CSA C22.2 No 60335-2-24 certified product. For revised products with a change other than a compressor, only the requirements marked as Impact (highlighted) need to be considered. For new products and alternate compressors, all of the following impact requirements need to be considered.	Action Not Required
Note	The 2nd edition of UL 60335-2-24 / CSA C22.2 No 60335-2-24 is to be used in conjunction with the 5th edition of UL 60335-1 / CSA C22.2 No 60335-1	Note
1	Scope – Ice Makers are added to the scope.	New requirement
5	General Conditions for Tests Run-in for 24 hours before any tests are conducted	New requirement
5	Test ambient(s) different. 43C for some input and heating tests	New requirement
6	Classification	New requirement
	Same except for climate classes 6.101DV – Appliances are treated as Tropical Class "T" (but not marked as such)	
7	Marking and Instructions 7.15 DV – Refrigerators having insulation using a flammable blowing agent are marked with the refrigerant type, lettering 16.2 mm high.	New requirement Impact (when flammable refrigerant is used)



	Power Input and Current	New requirement
10	Similar test, obtaining current at rated voltage; ambient slightly different (43 vs 40).	Impact
	Thermostat set to lowest setting Slightly different % limitations, depending if refrigerator is combined or motor-operated.	
	Heating	New requirement
11	No more "Freestanding" installation. Need to test as recessed. Probably no need for re-test if clearances are adequate.	Impact (if freestanding)
	Per 5.7 and 6.101DV, the test is conducted at 43 C.	New requirement
11	Temperature limits slightly different. For example, the IEC temperature rise limit for bare metal is 41 C (48-7 due to Class T) rather than 45 (85-40) in UL 250.	Impact
	Leakage Current and Electric Strength at Operating Temperature	New requirement
	13.2DV.1 (Pt 1) – Limit for cord-connected stationary = 0.75mA	Impact
	Circuit is different, no S1/S2, 1.06V. Meter is different.	
13	13.3 - Electric Strength – see Table 4 Basic = 1000, Supplementary = 1250, Reinforced = 2500 UL is typically 1250 V, so acceptable	
	13.1DV.1 (Pt 1) – Protective impedance and radio interference filters not to be disconnected before carrying out tests	
14	Transient Overvoltages – not required if minimum clearances met.	New requirement
45	Moisture Resistance	New requirement
15	15.102 – Conduct internal spillage test But not if there are no electrical components on walls	Impact
	Moisture Resistance	New requirement
15	15.3 – Humidity conditioning at 93% 15.103 – External Spill Test (very similar to UL 250) 15.106 – Component Wash Test (with Simpson 228)	Impact
	Leakage Current and Electric Strength	New
16	These tests are conducted after the 93% humidity and other moisture conditionings.	requirement Impact



	Abnormal Operation	New requiremen
19	19.4, 19.5 – May have to run the shorted heater test on refrigerators with defrost heaters.	Impact
	19.11.3 – Protective Electronic Circuits. Need not review if PEC evaluated to 60730, 873, 991, etc. However, 508C protection is no longer an option.	
19	Abnormal Operation	New Requiremer
	19.11 – Review electronic circuits to see if fault tested.	Impact
19	Abnormal Operation	New requiremer
	19.104 – Lamp Distortion. No retest necessary under the current edition 1. New edition 2 might need retest because door is almost closed.	No Impac
20	Stability and Mechanical Hazards	New requiremer
	Note clause 20.101DV was added to the 2nd edition. This is the stability test from UL 250, so refrigerators will not need to meet the more onerous stability test from IEC 60335-2-24, clauses 20.101 – 20.104 (Refrigerator un-weighted, door weighted, open door).	No Impact
	20.105DV – Reference to Annex 101.DVB; "Ice Dispenser Durability". See below.	impact
	Construction	New
	22 F (Dt 1) Plug shock test appliances with conscitors	requireme
	22.5 (Pt 1) – Plug shock test, appliances with capacitors 22.11 (Pt 1) – Non detachable snap fit parts test	Impact
22	22.46 (Pt 1) – Software in Protective Circuits, Class B or C	past
	22.47 (Pt 1) – Water pressure test for ice makers and drinking water systems	
	22.48 (Pt 1) – Backsiphonage requirements	
	22.101 – Torque test on lampholders	
	22.103 – Water pressure test, ice makers Internal Wiring	New
•	meerial viiiig	requireme
23	23.7 (Pt 1) – Use green/yellow wire for earthing conductors.	<u> </u>
		Impact
	Components	No Impac
24	24DV (Pt 1) – Component requirements replaced by standards listed in Annex	



	Components	New requiremen
24	24.1.3, 24.1.4 – Might need to look at switch and control endurance. For example, 24.1.3 of 2-24 requires 50,000 cycles for door switches. Note per 3rd paragraph of 24.1.4 (Pt 1), automatic controls need not be endurance tested if the appliance meets the standard with the component short-circuited. Also, the note in 24.1.3 indicates the declared number of operating cycles is only applicable for switches required for compliance with this standard.	Impact
26	Terminals for External Conductors	New requiremen
	If the product complied with UL 250 / CSA C22.2 No 63, it will comply with UL 60335-2-24 / CSA C22.2 No 60335-2-24. Many U.S. style cords are considered to be "Type X with specially prepared cord".	Impact
27	Provision for Earthing	New requiremer
	Essentially the same, except 27.2ADV.2 (Pt 1) – If one binding post is used for both a bonding conductor and an earthing conductor, the nut securing the earthing conductor shall not also be relied upon to secure the bonding conductor. Typically earthing first, then nut, then bonding conductor, then another nut	No Impact
27	Provision for Earthing	New requiremer
	27.5 (Pt 1) – Bonding path resistance. New test.	Impact
	Screws and Connections	New requiremer
28	Essentially the same, but per 28.3 (Pt 1), thread-cutting (self-tapping) screws should not be used if they are likely to be operated by the user or installer. Also, when using space-threaded (sheet metal) screws, two shall be used if used for earthing continuity.	Impact
30	Resistance to Heat, Fire, and Tracking	New requiremen
	This clause is applicable, so we would be looking at traditional IEC glow wire (or V materials) for certain non-metallic parts of the appliance. However, since UL 60335-2-24 / CSA C22.2 No 60335-2-24 2nd edition specifically references the 5th edition of UL 60335-1 / CSA C22.2 No 60335-1, non-metallic parts of UL Certified components do not have to be evaluated to clause 30.	<mark>Impact</mark>
	30.101DV – Appliances must comply with the additional requirements of Annex 101.DVD.	
	101.DVD.1 – Polymeric enclosures of uninsulated live parts shall be 5V (no change)	



	101.DVD.5 – Non-metallic Material Flammability in Proximity to Electrical Connections	
	101.DVD.6 – Nichrome Wire Test	
	Ice Dispenser Durability	New
101.DVB	Refrigerators with ice dispensers will need to be evaluated and tested.	requirement <mark>Impact</mark>
101.DVD.5 101.DVD.6	Non-Metallic Material Flammability in Proximity to Electrical Connections; Nichrome Wire Test	New requirement
	Non-metallic material near electrical connections will need to be evaluated. Either meet pre-selection material requirements or conduct nichrome wire "forced ignition" test.	Impact
	CUSTOMERS PLEASE NOTE: This Table and column "Verdict" can be used in determining how your current or future production is or will be in compliance with new/revised requirements.	