


Deferred Action Notice

Announcing: Publication of the Ninth Edition of Standard UL541 - Refrigerated Vending Machines

	Standard Number	Standard Title	Effective Date	Class Numbers	Notice Title	Supersedes
	UL 541	Refrigerated Vending Machines	Oct 10, 2025	9021 81	Refrigeration Equipment No. 32	Refrigeration Equipment No. 15, Ref No. N13-001 and; Refrigeration Equipment No. 23, Ref No. I14-091

DETAILS

Standard:

UL 541 Refrigerated Vending Machines

Programs:

Certified to US Standards

Who is affected:

Manufacturers of refrigerated vending machines.

Standard Publication Date:

Nov 20, 2020 The standard edition or amendments announced in this Deferred Action Notice may be used for CSA certification as of the issue date of this document.

Deferred Action Notice Effective Date:

Oct 10, 2025 Applications for new certifications and updates to existing certifications received on or after the stated Effective Date shall be evaluated to the edition of the standard announced in this Deferred Action Notice.

View my Listings:

<https://www.csagroup.org/testing-certification/product-listing/> Enter your Master Contract # and the class numbers associated with this Notice to determine which of your products are affected.

NEXT STEPS:

Already Certified:

It is not necessary to re-submit for test and/or evaluation to maintain certification of existing CSA certified products. Applications for updates received on or after the stated Effective Date shall be evaluated to the edition of the Standard announced in this Deferred Action Notice.

If you have any questions or are looking for Certification:

Please contact your CSA Customer Care Manager, Rodger Redd, at Rodger.Redd@csagroup.org.

TECHNICAL SUMMARY:**Overview of changes:**

This notice includes the revisions to the 8th edition that are dated: November 06, 2013, December 23, 2014, May 23, 2016, and October 2, 2018, in addition to the publication of the 9th edition on November 20, 2020.

Effect on Approvals:

New and currently certified vending machines are required to comply with the applicable new and revised requirements published with the 9th edition dated November 20, 2020 and revisions dated: November 06, 2013, December 23, 2014, May 23, 2016, and October 2, 2018 for Standard UL 541 (9th Edition) prior to the effective date.

Details of Affected Class Numbers can be found in Table 1.

Details of Revised Requirements can be found in Table 2.

TABLE 1 – AFFECTED CLASS NUMBERS

Class Number	Title
9021 81	VENDING MACHINES - Certified to US Standards

TABLE 2 – MAJOR REVISIONS

Editorial changes to the standard are not included. This includes many notes that have been converted into normative text.

Clause(s)	Changes
1.1.1	Added into scope refrigerated vending machines intended for installation within motor fuel dispensing facilities
17.1.1	Added requirement of the max operating current rating
17.1.9	Added a) and b) and require 125% of max operating current rating
29.2 a)	Added the maximum operating current rating
29.2 b)	Added the maximum operating current rating
29.2 c)	Replaced standard for evaluation
29.2 d)	Replaced standard for evaluation
29.2 e)	Replaced standard for evaluation
30.1.5	Removed permanently connected. Making it applicable for all machines.
30.1.5.1	Added requirements for current value markings.
30.1.9	Added requirements for the current interrupting capacity of a switching device that controls a motor load.
30.1.14	Added new standards for compliance for a protective control
30.1.14.1	Added requirement for cut-outs
30.1.15	Added requirements to comply with UL 60730-2-9, Table CC.2, as well as one of the bulleted items
30.1.24	Added additional requirements for operating controls.
56.1	Added requirements for refrigerant used
56.2	Added requirements for refrigerant used
56.3	Added requirements for refrigerant used
57.1.5	Reduced pressure value for R744
60.2.4	Added requirement for monitoring temperatures
60.2.5	Added condition for testing cycling components
60.2.6	Added recording requirements
81.1.4	Added the maximum operating current rating
93A	Added refrigerant identification tests

Clause(s)	Changes
97A	Added annual refrigerant identification requirement
98.6	Added refrigerant specification
98.6.1	Added marking requirement
98.7	Added requirement for refrigerants not complying with ASHRAE 34
99.2b)	Added MOC requirement for control of ASD or system
99.2c)	Added requirements for hermetic refrigerant motor-compressor not controlled by an ASD or system
99.2d)	Added marking requirement for MRC
99.10	Added the maximum operating current rating
SA6.1.1	Increased size of lettering
SA6.1.6	Added exact color requirements and size
SA6.2.3	Added requirements for installation and operating instructions
SUPPLEMENT SB	Added requirements for refrigerated vending machines intended for installation within motor fuel dispensing facilities.
15.1	Requirement for having a flexible non-detachable power supply cord having an equipment grounding conductor and with a grounding-type attachment plug.
16.1.12	Added requirements for a vending machine with a stand-alone solar PV system
16.3.1	Added reference to 16.1.9 and added requirement for Stand-alone solar PV system vending machine
30.1.24	Added e)
30.1.25	Added requirement to reference appendix A
47.3 b)	Addition of stand-alone solar PV system
49.2	Added requirements for capacitors
99.33	Added requirements for stand-alone solar PV system
APPENDIX A	Added appendix A
30.1.4	Added requirements for non-compliant switch
30.1.27	Added requirements for switching device endurance
30.1.28	Added requirements for protective control
30.1.29	Added requirements for thermistors
30.1.30	Added requirements for protective control
30.3	Added requirements for remotely operated venders
95	Protective Electronic Circuit Tests
102	Protective Electronic Circuit Test
SA6.2.4	Added requirement for installation clearances to be specified
12.2 b)	Added requirement for wiring / connections
12.4.1	Added requirement for accessory identification
12.4.2	Added requirement for accessory mounting
12.4.3	Added requirement for accessory connections
15.17.1	Added requirement for a cord connected vending machine and any intended accessory
21.2 a) through c)	Added requirement for capacitors
21.8	Added requirements for capacitors
21.9 a) though g)	Added requirements for capacitors
21.10 a) through d)	Added requirements for capacitors
29.5.2 l) through n)	Added EMC requirements
30.3.5 e)	Added requirement not to allow for remote shut-off.



Clause(s)	Changes
31.1.4.1	Compliance requirement for manual or automatic thermal protector as well as calibration of the thermal protector added.
58.1 b)	Added pressure limiting device requirement
75.4	Added requirements for switching device
75.8 b)	Added requirements for switching device
81A	Added Switch Mode Power Supply Units – Overload Test
101.1 d)	Added requirements for indoor vs. outdoor or protected vending machines
103.27.1	Added requirements for vending machines having two power supply cords.
106.7	Added requirements for vending machines having two power supply cords.
SA5.2.7 b)	Added IP protection requirement
SA6.2.3	Added requirements for the installation and operation instructions