

STANDARD INFORMATION

Standard: CSA C22.2 No. 60335-2-15

Standard ID: Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids (R2019) [CSA C22.2#60335-2-15:2014 Ed.1+A1;U1]

Previous Standard ID: Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids [CSA C22.2#60335-2-15:2014 Ed.1+A1]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **June 1, 2023**

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.

Overview of Changes:

- New requirements for animal water heaters
- New requirements for capsule-type coffee makers and espresso coffee makers
- Addition of classification requirements for outdoor appliances
- New supply cord requirements for livestock feed boilers and animal water heaters to have rubber insulated jacket

Specific details of new/revise 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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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.



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CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>
6	Info	Classification [Replace this clause of the Part 1 with the following] Cooking pans, kettles, pressure cookers with nonremovable vessels, slow cookers with nonremovable vessels, steam cookers with nonremovable vessels, <u>animal water heaters, outdoor appliances</u> , and all appliances intended to be immersed fully or partially in water for cleaning and/or during use shall be class I, class II, or class III. All other appliances shall be class 0, class I, class II, or class III. <i>New clause added;</i>
6.2		[Add the following] Animal water heaters shall be IPX4.
7	Info	Marking and instructions The maximum input rating marked on appliances intended for use on a nominal 120 V branch circuit protected by an overcurrent device rated or set at not more than 15 A shall a) not exceed 1500 W at 120 V; or b) not exceed the values listed in Table 7.1A under either of the following conditions: i) when it is apparent from the usage of the appliance that the load presented by the appliance is not a continuous load; or ii) when the duty cycle of the appliance is marked as specified in Clause 7.16C.
7.1		Animal water heaters intended for use with a fount, bowl, or pan that is not provided shall be marked on the top side of the heater base “TOP”, or equivalent, to ensure proper positioning. <u>Cord-connected animal water heaters shall be marked as follows:</u> <u>INSTALL ON A NONCOMBUSTIBLE SURFACE / INSTALLER SUR UNE SURFACE INCOMBUSTIBLE</u> <u>CAUTION: To provide continued protection against risk of electric shock, connect to properly grounded GFCI outlets only. / ATTENTION: Pour assurer</u>



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		<p><u>une protection continue contre les risques de choc électrique, connecter uniquement à des prises DDFT correctement mises à la terre.</u></p> <p><u>WARNING: Store indoors after winter season. Inspect cord before using. Do not use extension cords. Read all instructions. / AVERTISSEMENT: Entreposer à l'intérieur après la saison hivernale. Inspecter le cordon avant l'utilisation. Ne pas utiliser de rallonges. Lire toutes les instructions.</u></p>
		<p><i>New clause added;</i></p> <p>[Add the following]</p> <p>For espresso coffee-makers and capsule-type coffee-makers incorporating a pressurized reservoir filled by the user, the instructions shall contain information for the safe refilling of the water reservoir and the following or the equivalent:</p> <p>WARNING: The filling aperture shall not be opened during use.</p> <p>The instructions for all appliances shall include</p> <ul style="list-style-type: none">— a warning to avoid spillage on the connector;— details on how to clean the surfaces in contact with food;— a warning of potential injury from misuse;— a statement that the heating element surface is subject to residual heat after use. <p>The instructions for capsule-type coffee-makers (except those not intended for use with sealed capsules) shall include the following or the equivalent:</p> <p>Only use capsules intended for this appliance. If the capsule does not fit, do not force the capsule into the appliance.</p> <p>The instructions for espresso coffee-makers and capsule-type coffee-makers (except those not intended for use with sealed capsules) shall include the following or the equivalent:</p> <p>WARNING: To avoid the risk of injury, do not open the brewing chamber during the brewing process.</p> <p>Instructions for appliances that cannot be provided with the marking of Clause 7.16F because of their shape (such as a drawer or latched lid) shall include explicit instructions for proper closure of the brewing chamber.</p> <p>The instructions for animal water heaters shall include the following or the equivalent:</p> <ul style="list-style-type: none">— WARNING: Use only in a dry sheltered area.— Place heated base directly on a non-combustible surface in a dry sheltered area.
7.12		



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		<p>— For cord-connected appliances:</p> <p>CAUTION: To provide continued protection against electric shock:</p> <ul style="list-style-type: none">• Have a qualified electrician install a properly grounded GFCI receptacle outlet, acceptable for outdoor use and protected from snow and rain, immediately adjacent to the location where the heater will be used.• Route the supply cord and locate the heater so as to be protected from damage by livestock.• Do not use extension cords.• Inspect cord before using.• Unplug heater at receptacle outlet when not in use.• Store heater indoors after winter season. <p>The instructions for animal water heaters intended for use with a fount, pan, or bowl that is not provided shall include the following or the equivalent:</p> <ul style="list-style-type: none">— Place only metal pan or metal poultry/pet fount on surface marked “TOP”.— The maximum dimensions, and the weight or capacity of the fount, pan, or bowl.
		<p><i>New clause added;</i></p> <p>Espresso coffee-makers and capsule-type coffee-makers (except those not intended for use with sealed capsules) shall be marked with an arrow, bar, dot, or equivalent, or the word "lock", to indicate the secure position of the brewing chamber during brewing. This marking shall be visible during operation of the appliance.</p>
7.16F		<p>This marking requirement does not apply to appliances that comply with the test of Clause 22.106A.</p> <p>Note: Appliances that have been exempted from the test of Clause 22.106A are not exempted from this marking requirement.</p> <p>This marking requirement does not apply to appliances that cannot be provided with a lock marking because of their shape (such as a drawer or latched lid).</p>
11	Info	<p>Heating</p> <p><i>New clause added;</i></p> <p>Capsule-type coffee-makers shall be operated until temperatures stabilize. At the beginning of each cycle, if the water is below the minimum fill line, they shall be filled with the intended volume of room temperature water and loaded with a capsule. The cycle shall be considered to end when the brewed beverage is no longer emitted from the brewing chamber. Temperatures shall be measured throughout the test, including any preheat or keep-warm cycles, until temperatures stabilize. The test shall be conducted with the longest preheat and/or keep-warm cycles enabled. The keep-warm cycle shall monitor temperatures with and without</p>
11.7.104A		



CLAUSE	VERDICT	COMMENT
		the container in place, and with and without liquid in the container. The test shall be repeated following any manufacturer's instructions which might result in higher temperatures.
19		<p><i>New section added;</i></p> <p>Abnormal operation</p> <p>This section contains requirements for abnormal operation of espresso coffee-makers and capsule-type coffee-makers. See standard for details.</p>
21	Info	<p>Mechanical strength</p> <p>[Add the following as the first paragraph below the heading "21.1 Addition:"]</p> <p>The impact energy (2 J) specified in the Part 1 applies. The blows are also applied to guards for live parts.</p> <p>[Add the following]</p> <p><u>Animal water heaters intended for use with a fount, pan, or bowl that is not provided shall be capable of sustaining a static load of 27 kg, applied uniformly over the heated base area. After the test, the appliance shall show no damage that could impair compliance with this Standard, and compliance with Clauses 8.1, 15.1, and 29 shall not be impaired. In case of doubt, supplementary insulation and reinforced insulation are subjected to the electric strength test of Clause 16.3.</u></p>
22	Info	<p>Construction</p> <p><i>New clause added;</i></p> <p>[Replace this clause in the Part 2 with the following]</p> <p>Addition:</p> <p>Espresso coffee-makers and capsule-type coffee-makers (except those not intended for use with sealed capsules) are filled with water to their rated capacity and operated at rated power input with the coffee filter blocked and the outlet closed. The maximum pressure attained is measured. The appliance is then subjected to twice the measured pressure for 5 min.</p> <p>The overpressure may be supplied from an external source, care being taken to ensure that the appliance is at the normal temperature for brewing. If the valve for steam supply is linked to the switch used for starting the production of steam, this link is not to be disturbed while measuring the maximum pressure.</p> <p>The appliance shall not rupture, there shall be no leakage other than through a self-resetting pressure-relief device, and the appliance shall be suitable for further use.</p>
22.7		



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		<p>Controls that limit the pressure are rendered inoperative and the appliance is operated again as described for determining the maximum pressure.</p> <p>The appliance shall not explode or emit hazardous jets of steam. If an intentionally weak part ruptures, the test is repeated on a second appliance and shall be terminated in the same mode.</p> <p>All pressure regulators and pressure-relief devices of pressure cookers except dynamic pressure cookers are rendered inoperative and the lid is closed. The pressure is gradually increased hydraulically to two times the operating pressure of the pressure-relief device during the test of Clause 19.4.</p> <p>For dynamic pressure cookers, the pressure is gradually increased hydraulically to 50 kPa in excess of the operating pressure of the pressure-relief device or intentionally weak part during the test of Clause 19.4.</p> <p>The container shall not rupture.</p> <hr/> <p><i>New clause added;</i></p> <p>Capsule-type coffee-makers (except those not intended for use with sealed capsules) shall not emit fluid or media when the brewing chamber is opened during brewing.</p> <p>Compliance is checked by the following test.</p> <p>The test is to be conducted on 3 samples, under the conditions of Clause 11. Each sample is to be filled to normal capacity as described in the manufacturer's instructions. The sample shall be energized and the brewing cycle shall be started. While the brewing chamber is being pressurized, the brewing chamber shall be opened to the full extent.</p> <p>22.106A</p> <p>The test is to be repeated on each sample, but without grounds or other media in place.</p> <p>Fluid or media shall not be emitted more than 76.2 mm from the perimeter of the base of the appliance and shall not emit from areas of intended user interaction during normal brewing. If emission is found beyond 76.2 mm or in areas of intended user interaction, the emission shall be measured as it leaves the appliance. If fluid or media is emitted from more than one location, the temperature shall be measured at all locations. The maximum temperature shall not exceed 75 °C. Small volumes of fluid or media that create an area of less than or equal to 15 mm in diameter when measured on tissue paper are not prohibited.</p> <p>This test is not carried out if the brewing chamber cannot be opened by a simple or unintentional operation when the chamber is pressurized. At least two separate</p>



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		<p>and distinct operations are required, which can be accomplished either manually or by an automatic process. In addition, the appliance shall be marked in accordance with Clause 7.16F.</p> <p>This test is not carried out if a brewing chamber requires a force of 10 N or more to open while under pressure. In addition, the appliance shall be marked in accordance with Clause 7.16F.</p>
		<p><i>New clause added;</i></p> <p>[Replace this clause in the Part 2 with the following]</p>
22.111		<p>Espresso coffee-makers and capsule-type coffee-makers, incorporating a pressurized reservoir filled by the user, shall be constructed so that there is no spillage of water or sudden jets of steam or hot water likely to expose the user to a hazard when the appliance is used in accordance with the instructions.</p> <p>When removing the filling cap of the pressurized reservoir, before the cap is removed completely, the pressure shall be relieved in a controlled manner in order to avoid the emission of jets of steam or hot water that are likely to expose the user to a hazard.</p> <p>Compliance is checked by inspection during the test of Clause 11 and by removing the filling cap at the end of the test.</p>
		<p><i>New clause added;</i></p>
22.111I		<p>A capsule-type coffee-maker provided with an automatic control (such as a temperature limiter) that operates more than once during a function to keep water heated before brewing, and/or to keep the beverage heated after brewing, shall be provided with a separate thermal cut-out unless the appliance complies with Clause 19 with the automatic control bypassed. A single combination device is unacceptable for this purpose.</p>
		<p><i>New clause added;</i></p>
22.111J		<p>Cord-connected capsule-type coffee-makers that are class I or are provided with a metal enclosure that is likely to become earthed (such as a metal bottom with metal feet) shall have protective devices connected to the phase conductor. Other temperature controls shall be connected to the other conductor (neutral, if provided).</p>



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		<i>New clause added;</i>
22.111K		Espresso coffee-makers and capsule-type coffee-makers (except those not intended for use with sealed capsules) shall be provided with a brewing indicator that is readily visible and distinguishable from the OFF position. The brewing indicator shall be ON as soon as the user initiates the cycle, and shall turn off when the dispensing stops.
25	Info	Supply connection and external flexible cords [Replace this clause in the Part 2 with the following] Addition: Supply cords shall have temperature ratings that are suitable for the temperature encountered on surfaces of the appliance that the supply cord could contact during normal use. Supply cords for bottle warmers, slow cookers, tureens, coffee-makers, espresso coffee-makers, and similar appliances not having any surface temperature exceeding 105 °C shall be minimum Type SPT-2, SVT, or equivalent “not for hard usage” type cords. Supply cords for kettles and all other indoor appliances shall be Type HPN or equivalent “heater” type cords. Supply cords for <u>livestock feed boilers, animal water heaters, and similar appliances shall be provided with a rubber insulating jacket. Additionally, supply cords for animal water heaters shall be minimum Type SOW STW or equivalent “extra-hard usage” type cords.</u> Supply cords for all other outdoor appliances shall be minimum Type SJOW, SJTW, or equivalent outdoor “hard usage” or outdoor “extra-hard usage” type cords. Note: Table 11 of the Canadian Electrical Code, Part I, specifies suitable uses for supply cords.