

STANDARD INFORMATION

Standard: CSA C22.2 No. 218.1

Standard ID: Spas, Hot Tubs, Cold Tubs, and Associated Equipment [CSA C22.2#218.1:2025 Ed.3]

Previous Standard ID: Spas, Hot Tubs, and Associated Equipment (R2022) [CSA C22.2#218.1:2013 Ed.2+E1;E2]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: March 1, 2027

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 Reports not updated to this version by the effective date above will be withdrawn.

Note: The 3rd edition of CSA C22.2 No. 218.1 has been renamed to Spas, hot Tubs, Cold Tubs, and Associated Equipment.

This standard contains Functional Safety requirements.

Overview of Changes:

- Improved marking requirements for field terminals
- Added requirements for heat pump and chiller systems
- Added markings and warnings with respect to hypothermia

Specific details of new/revise requirements are found in table below

Note: If the listing references a Canadian standard, per the Canadian Electrical Code (CSA C22.2#0) Section titled Language of markings, Caution and Warning Markings shall be in English and French.

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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>		
1	info	Scope This Standard applies to spas, hot tubs, <u>cold tubs</u> , and associated equipment intended for residential and commercial use indoors or outdoors in nonhazardous locations, installed in accordance with the Rules of the Canadian Electrical Code, Part I, and connected 1.1 a) permanently to an electrical circuit of 250 V or less (i.e., a maximum of 150 volts-to-ground); or b) by a factory-provided supply cord, terminating in a moulded attachment plug, to an electrical supply rated at not more than 125 V single phase and not more than 15 A.
4	Info	Construction
4.23	info	Temperature-regulating controls 4.23.1 A unit shall be provided with a water temperature-regulating control that has a maximum adjustment corresponding to a water temperature of 40 °C in the tub <u>when used as a spa or hot tub, or minimum of 0 °C when used as a cold tub.</u>
<i>New section added;</i> Heat pump and chiller systems Spas, hot tubs, and cold tubs provided or intended to be used with a heat pump or chiller system (for heating, cooling, or both) shall additionally comply with the applicable requirements of CSA C22.2 No. 60335-2-40. 4.30 Heat pump and chiller systems provided with the unit shall be investigated and tested as part of the equipment. All applicable requirements of this Standard shall be applied to the heat pump or chiller system, except where otherwise specified in this Standard. Where applicable requirements of CSA C22.2 No. 60335-2-40 overlap those in this Standard, the most severe requirements shall apply. See standard for details.		



CLAUSE	VERDICT	COMMENT
5	Info	Markings
5.1		Visible after installation
		Equipment shall be plainly marked in a permanent manner in a place where the details will be readily visible after installation, with the following:
5.1.1		<u>j) WARNING: PROLONGED SUBMERSION OR EXPSOURE IN COLD WATER CAN CAUSE HYPOTHERMIA OR COULD OTHERWISE BE INJURIOUS TO YOUR HEALTH and AVERTISSEMENT : UNE SUBMERSION PROLONGÉE OU UNE EXPOSITION À L'EAU FROIDE PROLONGÉE PEUT PROVOQUER UNE HYPOTHERMIE OU ÊTRE NUISIBLE À VOTRE SANTÉ, or equivalent;</u>
		<u>Note: Applicable to cold tubs only.</u>
5.2	Info	Visible during installation
		Wiring diagram
5.2.2		A wiring diagram and the caution marking specified in Clause 5.1.1, Item g), shall be attached to the equipment.
		<u>Permanently connected spas, hot tubs, or cold tubs shall include a statement on the wiring diagram indicating the need for a disconnecting means to be installed and located as per the local codes and regulations.</u>
5.2.4	Info	Terminals
		<u>A field wiring compartment containing terminals or other supply conductor termination means that are not suitable for use with aluminum supply conductors shall be marked with the wording</u>
5.2.4.1		USE COPPER CONDUCTORS ONLY and EMPLOYER UNIQUEMENT DES CONDUCTEURS DE CUIVRE.
		This marking shall be independent of any marking on the terminal connectors and it shall be visible during and after installation of the unit.
		<i>New clause added;</i>
5.2.4.2		All terminals, lead wires, and connectors located within a field wiring compartment shall be clearly marked to indicate intended purpose (i.e., line, load, pump, or blower) and correct connection (i.e., line, neutral, ground, or polarity) if improper connection or assembly could result in a hazardous condition.



CLAUSE	VERDICT	COMMENT
<i>New clause added;</i>		
5.2.4.3		In the field wiring compartment of the pool control panel, the marking specified in Clauses 5.2.4.1 and 5.2.4.2 shall appear next to line supply terminals and branch load terminals.
5.3	Info	Instruction manual and additional markings
General		
An instruction manual or the equivalent shall be provided with the unit. The manual shall specifically alert the user of potential risk of personal injury or health hazards and cautions shall include but not be limited to the following:		
<u>WARNING: DO NOT ADD ANY SUBSTANCES TO THE TUB THAT MAY LOWER THE FREEZING POINT OF THE WATER/LIQUID, BELOW 0 °C</u> <u>and</u> <u>AVERTISSEMENT : N'AJOUTER AUCUNE SUBSTANCE DANS LA CUVE QUI POURRAIT ABAISSER LE POINT DE CONGELATION DE L'EAU/LIQUIDE, EN DESSOUS DE 0 °C</u>		
5.3.1		<u>Note: Not applicable to cold tubs.</u>
<u>WARNING: USE ONLY AS DESCRIBED IN THIS MANUAL. USE ONLY EXTERNAL ACCESSORIES, SUCH AS HEATING AND COOLING SYSTEMS, RECOMMENDED BY THE MANUFACTURER AND APPROVED FOR THE APPLICATION. THE USE OF OTHER ACCESSORIES MAY CAUSE FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.</u> <u>and</u> <u>AVERTISSEMENT : UTILISER SEULEMENT COMME DÉCRIT DANS CE MANUEL. UTILISER SEULEMENT DES ACCESSOIRES EXTERNES, TELS QUE DES SYSTÈMES DE CHAUFFAGE ET DE REFROIDISSEMENT, RECOMMANDÉS PAR LE FABRICANT ET APPROUVÉS POUR L'APPLICATION. L'UTILISATION D'AUTRES ACCESSOIRES PEUT PROVOQUER UN INCENDIE, UN CHOC ÉLECTRIQUE OU DES BLESSURES.</u>		
Hypothermia		
5.3.3		For cold tubs, the instruction manual shall inform the user how to adjust the temperature-regulating control to select a water temperature and that prolonged immersion in cold water can induce hypothermia. The unit's temperature setting should be based on individual experience and physical condition. A progressive approach shall be recommended. A description of the causes, symptoms, effects, and additional factors of hypothermia, such as the following, shall also be included:
See standard for details.		



CLAUSE	VERDICT	COMMENT
		User warnings
		A spa, hot tub, or cold tub shall be prominently marked on the inside surface of the tub with the following or equivalent:
5.3.4		<p>WARNING: RISK OF ACCIDENTAL DROWNING DUE TO <u>HYPERTHERMIA AND HYPOTHERMIA</u>. CONSULT THE INSTRUCTIONS PROVIDED WITH THIS UNIT FOR A DESCRIPTION OF THE CAUSES, SYMPTOMS, AND EFFECTS OF <u>HYPERTHERMIA AND HYPOTHERMIA</u></p> <p>and</p> <p>AVERTISSEMENT : RISQUE DE NOYADE PAR SUITE D'HYPERTHERMIE <u>ET D'HYPOTHERMIE</u>. LIRE LA NOTICE QUI ACCOMPAGNE CET APPAREIL; ELLE DÉCRIT LES CAUSES, LES SYMPTÔMES ET LES EFFETS DE L'HYPERTHERMIE <u>ET L'HYPOTHERMIE</u></p>