

## STANDARD INFORMATION

**If the project requires any changes to the Certification Data Report outside of Section 1, then this SUN applies.**

**Standard:** CSA/ANSI Z21.5.1 / CSA 7.1

**Standard ID:**

Gas Clothes Dryers, Volume I, Type 1 Clothes Dryers [CSA/ANSI Z21.5.1/CSA 7.1:2022 Ed.8]

**Previous Standard ID:**

Gas Clothes Dryers - Volume 1, Type 1 Clothes Dryers [ANSI Z21.5.1:2017 Ed.7]

Gas Clothes Dryers - Volume 1, Type 1 Clothes Dryers [CSA 7.1:2017 Ed.7]

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **April 1, 2025**

## IMPACT, OVERVIEW, AND ACTION REQUIRED

**Impact Statement:** No action is required for currently certified products. If modifications to the product after the effective date require an evaluation and/or testing, then the product must undergo re-evaluation to the new requirements.

**Overview of Changes:**

- New construction and performance test requirements covering the flammability of electrical connections
- Update of standard designation on rating plate
- New terms required to be used with appliances suitable for use in manufactured homes or park model trailers
- New requirement to list exhaust or installation kits that are provided by the manufacturer on the rating plate or label

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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



## STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		<p>Additions to existing requirements are <u>underlined</u> and deletions are shown <del>lined-out</del> below.</p>
4	Info	<b>Construction</b>
4.16	Info	<b>Electrical equipment and wiring</b>
		<b><i>New clause added;</i></b>
		All electrical connections where the total circuit load is greater than 60 W during normal operation shall
		a) comply with Clauses 4.16.5, 4.16.6, and 4.16.7; or
		b) be evaluated as specified in Clause 5.15.
4.16.3		Note: A risk of fire is considered to exist at any two points in a circuit where a power of more than 15 W can be delivered into an external resistor connected between the two points within 5 s. To deliver 15 W at a connector, the circuit must have a nominal load of 60 W or more. This is based on the maximum power transfer theorem that shows an electrical connection can only dissipate 1/4 of the power of the load when the resistance of the connection is equal to the resistance of the load.
		<b><i>New clause added;</i></b>
4.16.4		Electrical connections shall not be required to comply with Clause 4.16.3 when all mating parts of the electrical connection are provided with a component (e.g., contacts within a switch or relay, connections within a motor, etc.) that complies with the relevant component standard. Electrical connections that are mated to the component from the appliance shall comply with Clause 4.16.3.
		The requirements in Clause 4.16.3 shall not apply to welded or soldered connections.
		<b><i>New clause added;</i></b>
4.16.5		With reference to Clause 4.16.3, components such as wire, tubing, sleeving, or tape located within 3 mm of an electrical connections (as shown in Figure 1) shall have a flammability classification as follows:
		a) VW-1 for wire evaluated in accordance UL 2556 or CSA C22.2 No. 2556;
		b) VW-1 for tubing and sleeving evaluated in accordance with CAN/CSA-C22.2 No. 198.1 and UL 224 or UL 1441; or
		c) evaluated in accordance with CSA C22.2 No. 197 and UL 510 for flame-retardant insulating tape.



CLAUSE	VERDICT	COMMENT
4.16.6		<p><b><i>New clause added;</i></b></p> <p>With reference to Clause 4.16.3, polymeric materials located within 3 mm of an electrical connection as shown in Figure 1 shall have a flammability classification as follows:</p> <ul style="list-style-type: none"><li>a) a minimum V-0 or VTM-0, in accordance with CAN/CSA-C22.2 No. 0.17 and UL 94;</li><li>b) a minimum SC-0 or SCTC-0, in accordance with CAN/CSA-C22.2 No. 0.17 and UL 1694;</li><li>c) minimum glow wire ignition temperature (GWIT) of 775 °C (1427 °F) according to IEC 60695-2-13; or</li><li>d) withstands glow-wire test (GWT) according to IEC 60695-2-11 with a minimum test severity of 750 °C (1382 °F) and during the test flames persists for no longer than 2 s.</li></ul> <p>Note: Testing of alternate materials for a given part within 3 mm of the electrical connection is not required when the test is performed on the minimum specified flame rated material.</p>
4.16.7		<p><b><i>New clause added;</i></b></p> <p>With reference to Clause 4.16.3, all non-metallic combustible materials located within the envelope of a vertical flame cylinder having a diameter of 20 mm and a height of 50 mm, and placed above the centre of the connection zone and on top of the non-metallic parts that are supporting current-carrying electrical connections as shown in Figure 2 shall have a flammability classification as follows:</p> <ul style="list-style-type: none"><li>a) a minimum of V-0, VTM-0, or HF-1, in accordance with CAN/CSA-C22.2 No. 0.17, UL 94, and IEC 60695-11-10;</li><li>b) a minimum of SC-0 or SCTC-0, in accordance with CAN/CSA-C22.2 No. 0.17 and UL 1694; or</li><li>c) a minimum VW-1 for wire, tubing, sleeving and tape in accordance with Clause 4.16.5.</li></ul> <p>Notes:</p> <ul style="list-style-type: none"><li>1) Testing of alternate materials within the cylinder is not required when the test is performed on the minimum specified flame rated material.</li><li>2) The requirement does not apply to parts having a mass not exceeding 0.5 g which are considered insignificant parts, provided the cumulative effect of insignificant parts located within 3 mm of each other is unlikely to propagate flames that originate inside the appliance by propagating flames from one insignificant part to another.</li></ul>



CLAUSE	VERDICT	COMMENT
		<b><i>New clause added;</i></b>
4.16.8		With reference to Clause 4.16.7 and Figure 2, the flame cylinder shall be placed above the center of each connection zone and on top of any non-metallic parts that are supporting current-carrying connections, as shown in Examples 1 to 3 of Figure 2. In the case of uninsulated connections, the flame cylinder shall be placed above the center of each connection zone and directly on top of current-carrying conductors, as shown in Examples 4 to 6 of Figure 2. The flame cylinder shall project through all metallic and non-metallic material. If "C" is intended to act as a barrier to "D", or if the flame cylinder extends beyond the outer enclosure of the appliance, then the adequacy of the barrier shall be demonstrated by testing as described in Clause 5.15.
4.22	Info	<b>Markings</b>
		<b>Rating plate(s)</b>
		Each dryer shall bear a plate or a combination of adjacent plates of Class IIIA marking material located so as to be easily read when the dryer is in a normally installed position. A plate(s) visible after removal of an access panel, without the use of tools, is satisfactory. This plate(s) shall include the following information:
4.22.2		<del>j) identification of this Standard by indicating this edition of the standard with the following marking: "ANS Z21.5.1-(year) • CSA 7.1 (year) Clothes Dryers, Vol. I." The last two digits of the year may be used to indicate the year of the standard.</del>
		<u>j) identification of this Standard by indicating this edition of the Standard with the following marking: "CSA/ANSI Z21.5.1-(year) • CSA 7.1-(year)" The last two digits of the year may be used to indicate the year of the Standard;</u>



CLAUSE	VERDICT	COMMENT
		<p><b><i>New clause added;</i></b></p> <p><b>Installation in manufactured homes</b></p> <p>A dryer for domestic use that is also suitable for manufactured home installation or park model trailer (see Clause 4.1.12) shall incorporate on the rating plate, or on a separate marking plate of Class IIIA marking material adjacent to the rating plate, the permanent and prominent statement: "Suitable for installation in all buildings including manufactured homes, park model trailers, and park model recreational vehicles."</p>
4.22.7		<p>Any of the following may be substituted for "manufactured home" in the above marking:</p> <ul style="list-style-type: none"><li>a) mfd. home (mobile home);</li><li>b) manufactured (mobile) home;</li><li>c) mfd. (mobile) home;</li><li>d) manufactured home; or</li><li>e) mfd. home.</li></ul>
		<p><b><i>New clause added;</i></b></p> <p><b>Installation kit</b></p> <p>Where an installation or exhaust kit is available from the manufacturer of the dryer,</p>
4.22.8		<ul style="list-style-type: none"><li>a) the part numbers of the kits shall be included on<ul style="list-style-type: none"><li>i) the rating plate; or</li><li>ii) a separate marking plate of Class IIIA marking material adjacent to the rating plate; or</li></ul></li><li>b) a marking shall be incorporated to indicate the location of this information. Suitable instructions for lubrication of motor and blower or fan bearings, if applicable, shall be provided on a Class V marking, either on the fan or blower housing or on surfaces adjacent to the means of access.</li></ul>