

STANDARD INFORMATION

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

Standard: CSA/ANSI Z21.89 / CSA 1.18

Standard ID:

Outdoor Cooking Specialty Gas Appliances [CSA/ANSI Z21.89/CSA 1.18:2023 Ed.6]

Previous Standard ID:

Outdoor Cooking Specialty Gas Appliances [ANSI Z21.89:2017 Ed.5]

Outdoor Cooking Specialty Gas Appliances [CSA 1.18:2017 Ed.5]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **September 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:

- Removed Mixed (Test Gas C) and Manufactured gas (Test Gas B) have been removed from the coverage of this standard
- Updated wording to include considerations and testing reference for surface temperatures of potential contact points
- New requirement that gas components and automatic ignition systems shall be rated for a minimum ambient operating temperature of 0 degrees F or a lower temperature
- New requirements covering the connection of a recreational vehicle outdoor cooking specialty gas applicant to a recreational vehicle's low-pressure LP gas supply system
- New statement required in the instructions outlining Outdoor use
- Additional requirement for a statement in the instructions that the appliance shall not be used under overhead combustible construction
- New annex that covers the use of smart enabled features with outdoor cooking specialty gas appliances
- New annex that details the method of measuring and calculating input rate

Specific details of new/ revised 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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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 |
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| | | <i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i> |
| 1 | Info | This Standard applies to appliances operating at inlet gas pressures not to exceed ½ psi (3.5 kPa) for connection to a fixed fuel piping system for use with: |
| 1.6 | | a) natural gas; b) manufactured gas; e) mixed gas; d) LP gases; and e) LP gas-air mixtures. |
| 4 | Info | Construction |
| 4.1 | Info | General construction and assembly |
| | | Manufacturing practice |
| 4.1.7 | | The general construction and assembly shall be neat and manufactured in accordance with good engineering practice with parts well fitted and bolts or other fasteners drawn up tightly to give rigidity. Exposed edges, with which the user might reasonably come in contact during normal use or adjustment of the <u>outdoor cooking specialty gas appliance, and which include bottoms of legs of portable outdoor cooking specialty gas appliance that are in contact with the ground, shall not be sharp. Surfaces that are placed 3 in (8 cm) or closer to the liquefied petroleum (LP) gas cylinder shutoff valve handle and that can be contacted while operating the valve shall not have a temperature exceeding those defined in Clause 5.22. The test shall be carried out in accordance with the procedure outlined in Clause 5.22.</u> |
| | | <i>New clause added;</i> |
| | | Low-temperature operation |
| 4.1.18 | | All gas-carrying components and automatic gas ignition systems shall be rated for the minimum ambient operating temperature of either 0 °F (–17.8 °C) or a lower temperature, as specified by the outdoor cooking specialty gas appliance manufacturer. |



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4.19

Info

Instructions

Assembly, installation, and operation

The instructions accompanying the appliance shall include the following:

a) for all appliances:

iv) a statement immediately following Item iii), as illustrated in Annex C:

1) "An appliance is considered to be outdoors if installed with shelter no more inclusive than with walls on three sides, but with no overhead cover; all openings shall be permanently open; sliding doors, garage doors, windows, or screened openings are not considered as permanent openings";

2) "An appliance is considered to be outdoors if installed with shelter no more inclusive than within a partial enclosure that includes an overhead cover and no more than two sidewalls. The sidewalls may be parallel, as in a breezeway, or at right angles to each other; all openings shall be permanently open; sliding doors, garage doors, windows, or screened openings are not considered as permanent openings"; or

3) "An appliance is considered to be outdoors if installed with shelter no more inclusive than within a partial enclosure that includes an overhead cover and three sidewalls, as long as 30% or more of the horizontal periphery of the enclosure is permanently open; all openings shall be permanently open; sliding doors, garage doors, windows, or screened openings are not considered as permanent openings";

4.19.3

viii) information specifying the necessity for maintaining proper clearances from combustible construction, the specific minimum clearances from such construction to the sides and back of the appliance, and that the appliance shall not be located or used under overhead unprotected combustible construction. For a fryer or boiler, the minimum clearance shall be at least 10 ft (3 m) from any structure or combustible material;

xviii) maintenance instructions (including recommended frequency guidelines) relative to

1) keeping appliance area clear and free from combustible materials, gasoline, and other flammable vapours and liquids;

2) not obstructing the flow of combustion and ventilation air;

3) keeping the ventilation opening(s) of the cylinder enclosure free and clear from debris;

4) visually checking burner flames, with pictorial representations;

5) cleaning appliance, including special surfaces, with recommended cleaning agents, if necessary;

6) checking and cleaning burner/venturi tubes for insects and insect nests. A clogged tube can lead to a fire beneath the appliance;

7) obtaining replacement parts and where they may be obtained; and



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| | | <p><u>8) the minimum ambient operating temperature for safe use of the appliance. The suitability of this statement shall be examined with respect to the listing of the gas- carrying components utilized;</u></p> <p><u>xix) for portable outdoor cooking specialty gas appliances, a statement that the appliance shall not be used under overhead combustible construction;</u></p> |
| 4.20 | Info | Markings |
| | | Rating plate |
| 4.20.5 | | <p>Each appliance shall bear a marking of Class IIIA-2 marking material located on the appliance or supporting structure where it can be easily read, and on which shall appear the following:</p> <p><u>l) the statement “Minimum ambient operating temperature: °F (<enter value> °C (<enter value>”).</u></p> |
| 5 | Info | Performance |
| 5.8 | Info | Ignition |
| | | Ignition system temperatures |
| | | <p>The temperature of the ignition system components shall not exceed the manufacturer’s maximum specified temperature when subjected to the following method of test.</p> <p>Testing shall be conducted as follows:</p> <p>Thermocouples shall be peened into or brazed to the following points that are applicable to the device provided:</p> |
| 5.8.2 | | <p>a) electric igniter; b) valve body; c) electric switch; d) contact mechanism; e) magnetic assembly; f) spark generator; and/or g) battery: 160<u>130</u> °F (54 °C) for alkaline batteries.</p> <p>The main burner(s) shall be operated as specified in Clause 5.21, and the temperatures of the above noted components shall be recorded in conjunction with the wall, floor, and enclosure temperature recordings specified in Clause 5.21.</p> |



| CLAUSE | VERDICT | COMMENT |
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| | | <i>New annex added;</i> |
| | | Smart enabled of household outdoor cooking specialty gas appliances |
| Annex D | | These requirements apply to the open-top broiler function of an outdoor cooking specialty gas appliance intended to receive and respond to communication signals from a remote user interface, such as a smartphone or computer. See standard for details. |
| | | <i>New annex added;</i> |
| | | Formula for calculation of input |
| Annex E | | The following is the rate calculation procedure necessary for measuring the gas input of an outdoor cooking specialty gas appliance using a positive displacement-type gas meter. See standard for details. |