

STANDARD INFORMATION

Standard: UL 8802

Standard ID:

Ultraviolet (UV) Germicidal Equipment and Systems [ANSI/CAN/UL 8802:2023 Ed.1]

Previous Standard ID:

Outline of Investigation for UV Germicidal Equipment and Systems [UL SUBJECT 8802:2023 Ed.5]

Outline of Investigation for UV Germicidal Equipment and Systems [UL SUBJECT 8802:2021 Ed.4]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **November 16, 2025**

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 Reports not updated to this version by the effective date above will be withdrawn.

All reports certified to UL Subject 8802 are required to be certified to the 1st edition of UL 8802 prior to the effective date.

Overview of Changes:

5th Edition Outline of Investigation:

- Additional markings and instructions for manufacturer and model or catalog number of UV lamps
- New Part 5 of the standard covering contained UV germicidal equipment

1st edition of Standard for Safety

- New requirements for ultraviolet radiation at wavelengths less than 250 nm

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>
		The following changes reflect the Outline of Investigation 5th edition changes:
	Info	PART I – UV GERMICIDAL EQUIPMENT
11	Info	Additional Markings and Instructions <i>New clause added;</i>
11.7		The lamp replacement marking shall include at least the manufacturer and model or catalog number of the UV lamp. Alternatively for lamps that have ANSI designations with defined electrical and spectral operating parameters, the ANSI designation complies with this requirement.
	Info	PART 2 – UV EMITTER ASSEMBLIES
16	Info	Additional Markings and Instructions <i>New clause added;</i>
16.6		The lamp replacement marking shall include at least the manufacturer and model or catalog number of the UV lamp. Alternatively for lamps that have ANSI designations with defined electrical and spectral operating parameters, the ANSI designation complies with this requirement.
	Info	PART 5 – CONTAINED UV GERMICIDAL EQUIPMENT
		<i>New section added;</i>
		General
27		Contained UV germicidal equipment shall comply with one of the applicable safety standards in 1.7 in addition to the requirements in Part 5 of this Outline. See standard for details.
		<i>New section added;</i>
		Photobiological Assessment
28		Equipment shall not pose a risk of personal injury to persons due to UV overexposure when installed, tested and operated in accordance with the manufacturer's instructions and the requirements of this Outline. See standard for details.



CLAUSE	VERDICT	COMMENT
		<i>New section added;</i>
		Ozone
29		Portable equipment evaluated per 1.7.c that emit ultraviolet radiation at wavelengths less than 250 nm shall comply with the Ozone Test in CSA-C22.2 No. 187 / UL 867. See standard for details.
		<i>New section added;</i>
		Stability
30		When conducting the Stability Test in UL 153, the test is to be conducted under conditions most likely to cause the equipment to overturn. See standard for details.
		<i>New section added;</i>
		Safety Instructions
31		The safety instructions shall be a permanent part of the manual but separated in format and preceding all other instructions (such as installation, operation, and maintenance instructions). See standard for details.
		<i>New section added;</i>
		Additional Markings and Instructions
32		The instruction manual shall include instructions for operation and maintenance recommended by the manufacturer. See standard for details.
		<i>New annex added;</i>
		Interlocks
Annex F		This annex applies to interlocks intended to mitigate the risk of UV overexposure during a user maintenance operation. See standard for details.



CLAUSE	VERDICT	COMMENT
		Presence Detection Determination
Annex H	Info	Note: Annex H was added to the standard in the 5th edition of the outline and was removed in the 1 st edition of the Standard for Safety.
The following changes reflect the 1st edition of UL 8802 Standard for Safety		
29	Info	Ozone
		Equipment evaluated per 1.7(a), or 1.7(b) that emit ultraviolet radiation at wavelengths less than 250 nm shall either:
29.2		<u>a) Be provided with instructions indicating the need to take precautions to ensure that the concentration of ozone is limited to a safe value, and that the equipment shall not be used in dwellings; see 32.5; or</u> <u>b) Comply with the Ozone Test in CSA C22.2 No. 187 / UL 867.</u>
		NOTE – Equipment with an ozone monitoring circuit or an interlock mechanism to control ozone production are not addressed by this document and may require a separate evaluation.