

STANDARD INFORMATION

Standard Number: UL 430
Standard Name: Waste Disposers
Standard Edition and Issue Date: 8th Edition Dated September 8, 2015
Date of Revision: February 23, 2018
Date of Previous Revision of Standard: September 8, 2015

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **December 31, 2019**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revised requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

Overview of Changes:

- Addition of Requirements for Waste Disposers with Wireless Control
- Addition of Requirements for Battery-Operated Waste Disposers

Specific details of new/revised requirements are found in table below.

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action Required:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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 underlined and deletions are shown lined out below.</i>
11	Info	Power-Supply Connections
11.3		<i>New section added;</i> Battery-powered waste disposers
11.3.1		Products covered by this Standard that are powered by rechargeable batteries, in addition to or in place of a mains or other non-isolated power source, shall additionally comply with Supplement SC.
18	Info	Switches and Controls
18.13		<i>New clause added;</i> A waste disposer employing a wireless control to operate the disposer shall additionally comply with Supplement SB, Waste Disposers with Wireless Control.
Supplement SB		<i>New supplement added;</i> WASTE DISPOSERS WITH WIRELESS CONTROL
SB1		General
SB1.1		Products covered by Supplement SA waste disposer employing a wireless control to operate the disposer shall additionally comply with Supplement SB, Waste Disposers with Wireless Control, of this standard are waste disposers employing a wireless control to remotely turn on/off the disposer. This wireless control may be used in lieu of a wired switch, or in addition to a wired switch or control that is inherent to the product or installed separately, such as a wall switch. With reference to 18.13, the following requirements in SB3.1– SB3.4 additionally apply.
SB2		Glossary
SB2.1		For the purpose of this supplement, waste disposer employing a wireless control to operate the disposer shall additionally comply with Supplement SB, Waste Disposers with Wireless Control, the following terms apply:
SB2.2		ACTIVATOR – Typically the portion of the wireless control (such as wall mounted or hand-held remote control, smartphone, etc) located above the sink and is the primary on/off interface for the user. An Activator may also receive signals from the receiver (such as status, confirmation, etc).
SB2.3		RECEIVER – Typically the portion of the wireless control located below the sink or inside the disposer which switches the power to the main disposer, in response to signal received from the activator. A receiver may also send signals to the activator (such as status, confirmation, etc.)



SB2.4	WIRELESS CONTROL – One or more devices that work together as a system, to provide on/off function, status monitoring or other control functions for a waste disposer or other end-product. The signals and communication between one or more components (such as activator and receiver) are via wireless (i.e. radio, infrared, wifi, etc) as opposed to via electrical wires or traces.
SB3	Switches and Controls
SB3.1	During the evaluation of the wireless control, including the evaluation of the activator and receiver per 5.5, the following conditions shall additionally be verified for compliance: a) The wireless control is single fault tolerant so as to not turn on the disposer except via intentional user actuation of the activator of the wireless control; and b) The control OFF function continues to operate via user action, and the OFF function cannot be defeated by the user;
SB3.2	The disposer shall be permitted to be operated via wireless control under one or more of the following circumstances: a) There is an interlock guarding all parts inside the disposer that may present a risk of injury, see 32.3, Exception No. 2; or b) The activator portion of the control is permanently installed or mounted in a fixed location, within site of the disposer or sink opening, as per 66.4; or c) The range of the wireless control (between activator and receiver) is positively limited to a distance within sight of the disposer or sink opening, and instructions are provided which specify “use only within line of sight” or the equivalent.
SB3.3	The wireless control shall include a function to turn the disposer off.
SB3.4	If a wireless control loses power, moves out of range, or otherwise becomes inoperative while the disposer is operating, the disposer shall be provided with the means to turn OFF via: a) Sink mounted OFF control; or b) Wall mounted OFF control; or c) Automatic OFF upon loss of control signal.
SB3.5	The battery compartment of a waste disposer or any accessory, such as a wireless control, activator, or receiver, incorporating one or more coin cell batteries of lithium technologies shall comply with the Standard for Products Incorporating Button or Coin Cell Batteries of Lithium Technologies, UL 4200A, if the appliance or any accessory is intended for use with one or more single cell batteries having a diameter of 32 mm (1.25 in) maximum with a diameter greater than its height.
Supplement SC	<i>New supplement added;</i> BATTERY POWERED WASTE DISPOSERS
SC1	General
SC1.1	Rechargeable battery-powered appliances that are covered under this Supplement SC shall meet the requirements of the Standard for General Requirements for



Battery-Powered Appliances, UL 2595, with the conditions and specifications as required by Annex D, Indent Instructions, of that Standard as indicated in SC1.2 – SC1.11 below.

In reference to Indent A of the Indent Instructions, Annex D of the Standard for General Requirements for Battery-Powered Appliances, UL 2595, except as indicated elsewhere in UL 2595, the following requirements in this end-product Standard, UL 430, do not apply or are amended as indicated below:

- a) UL 430 – 5.2 – 5.4, 5.6 – 5.9, Sections 5.11, 5.13, 5.18 – 5.19, 7.3, 11, 13 – 17, 21 – 26, 40 – 46, 58 – 61 do not apply in their entirety. Other sections of UL 430 may not apply, depending on the specific construction and if the disposer does not include certain components or features.
- b) UL 430 – 18.1 – 18.4, 18.6, 18.8 – 18.9, 18.11 -18.12, 33.2 – 33.4, 38.1, 38.3, 39.1 – 39.6, 62.2, 63.1 – 63.2, 63.4 - 63.8, 63.11 – 63.14, 63.16, 63.18 – 63.19, 63.21 – 63.22, 65.4, 66.2 and 66.4 do not apply.
- c) For 5.14, the overcurrent protection devices are specified in those cases where a certified fuse is used to comply with 11.4.1 under Circuit current conditions, of UL 2595
- d) Requirements in 19.4 and 19.5 as it relates to protective controls are applicable unless the requirements for safety critical functions in the Standard for General Requirements for Battery- Powered Appliances, UL 2595, are fulfilled. See SC1.8.
- e) Polymeric enclosures of the battery powered waste disposer and a detachable or separable battery pack shall comply with either of the following:
 - 1) Requirements in 5.15, Section 8 and Sections 48 – 57, or
 - 2) Section 15, Mechanical Strength and Section 21, Resistance to Heat and Fire, of the Standard for General Requirements for Battery-Powered Appliances, UL 2595.Exception: separable battery pack shall comply with (2) above.
- f) The portions of this standard that require the outcome of testing to comply with dielectric withstand and/or leakage current, and the wetting of any electrical components, shall instead consider increased risk of shock for those areas where the voltages are in excess of the hazardous voltage; see Protection Against Electric Shock, Section 8 of the Standard for General Requirements for Battery-Powered Appliances, UL 2595.
- g) A marking shall be provided on the disposer near the battery to read: "Disconnect Battery Pack Before Cleaning or Servicing", or the equivalent.
Exception: This warning is not applicable for batteries that cannot be disconnected from the appliance in normal use.

SC1.2

The requirements referenced in (a) and (b) above apply to those products also powered from mains or other non-isolated sources to the extent that requirement applies to address the risk of electric shock in the area of the appliance containing such an electrical source.

SC1.3

With respect to Indent B, users are considered to be dry during the use of these products.



SC1.4	With respect to Indent C, a LT or ELT specification (LT – Low Temperature and ELT – Extra Low Temperature are optional battery classifications offered by UL 2595, see Cl.4.1 and 4.2, respectively) is not required for batteries used with waste disposers.
SC1.5	With respect to Indent D, during the temperature test, the waste disposer shall be loaded as indicated in Section 35.
SC1.6	With respect to Indent E, the temperature limits listed in the Standard for General Requirements for Battery-Powered Appliances, UL 2595, are considered suitable.
SC1.7	With respect to Indent F, no special considerations are necessary.
SC1.8	With respect to Indent G, additional or alternative Safety Critical Functions (SCFs) are referenced in Table SC1.1 identified below:

Required performance levels

Table SC1.1

Type and purpose of SCF	Minimum Performance Level (PL)
Prevent unwanted turn on where unexpected operation exposes users or bystanders to a substantial risk of injury due to unenclosed moving parts such as blades or grinding chamber parts that do not comply with 32.3 regarding accessibility of moving parts.	C
Provide desired switch-off of the appliance if continued operation exposes the user to a substantial risk of injury due to unenclosed moving parts such as blades or grinding chamber parts that do not comply with 32.3 regarding accessibility of moving parts.	C
Prevent exceeding thermal limits as defined in Section 9, Heating, of the Standard for General Requirements for Battery- Powered Appliances, UL 2595	B
Prevent self-resetting as required in Section 15 and 30	B
Prevent loss of electronic interlock	B

SC1.9	With respect to Indent H, the impact surface shall be conducted on a hardwood surface.
SC1.10	With respect to Indent I, the additional switching arrangement as specified is not required.
SC1.11	With respect to Indent J, battery operated appliances that may also be operated or charged by mains or a non-isolated sources as described in the Standard for General Requirements for Battery-Powered Appliances, UL 2595, shall also meet the requirements of this standard that apply to the risk of electric shock. For these types of appliances, the exempted requirements in SC1.2 – SC1.3 may be applicable.

CUSTOMERS PLEASE NOTE: This Table and column “Verdict” can be used in determining how your current or future production is or will be in compliance with new/revised requirements.