

Standard Information

Standard Number: UL 982

Standard Name: Standard for Safety for Motor-Operated Household Food Preparing Machines

Standard Edition and Issue Date: 7th Edition Issued June 10, 2015

Date of Revision: June 10, 2015

Date of Previous Revision to Standard: 6th Edition Revised June 9, 2010

Effective Date of New/Revised Requirements

Effective Date (see Schedule below): June 29, 2018

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requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.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: Relocation of Component Standard References from Appendix A into the Body of the Standard as Component Requirements and the following related revisions: a) Adding References to the UL 60730-1 and Relevant Part 2 Standards, b) Elimination of Flashing Light Color Requirement and Clarification of Stop Condition and Exposed Moving Parts, c) Software Requirements for Software Performing Safety Critical Functions, d) Addition of Requirements for Evaluation of the Motor in the End-Product, e) Elimination of the Limited Short Circuit Test, f) Direct Plug-In Rechargeable Appliance Requirements, g) Relocation of Interlock Requirements; and h) Materials in Close Proximity to Live Parts Requirements. 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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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.



Standards Update Notice (SUN)

Issued: February 2, 2017

Description of New/Revised Technical Requirements

| Clause | Verdict | Comment |
|---------|---------|--|
| | | <i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i> |
| 6.14.3 | | <u>Printed wiring boards containing line voltage circuits shall be rated for direct support.</u> |
| 25.5 | | A moving part is considered to be acceptably enclosed if it cannot be contacted with the probe illustrated in Figure 7.1 <u>when food pushers and interlocked covers and guards are left in place.</u> |
| 26.12 | | <u>A malfunction or breakdown of any single electronic component, located in any circuit of the product, shall not result in increased risk of injury to persons, such as a loss of OFF control or unexpected operation. See 6.5.</u> <u>Exception: An appliance employing accessible moving parts and electronic controls placing the appliance in stand-by mode, where a single malfunction of a component can cause unexpected operation, shall be provided with a motor control OFF switch in accordance with 6.18.1.6 and be constructed with a light which flashes only when the appliance is in the stand-by mode. See also Exception No. 2 of 6.5.2.2, 69.25 and 73.32.</u> |
| 26.9 | | An interlock shall not be capable of being defeated by food materials that could accumulate with normal use of the appliance. <u>For the purpose of this requirement, the interlock mechanisms shall not be located:</u> a) <u>Within the food processing area;</u> b) <u>On surfaces over which food materials may be poured when emptying food materials from the food processing area; or</u> c) <u>On surfaces which are subjected to spillage or leakage of food materials during the Overflow Test of 38.1 or the Test of Deterioration of Parts Subject to Flexing of 39.1 that could accumulate to defeat the interlock.</u> |
| 28.12 | Info | <u>Coffee or grain mills</u> |
| 28.12.1 | | A coffee or grain mill shall be provided with a cover actuated interlock to prevent access to moving parts involving a risk of injury to persons. |
| 28.12.2 | | The interlock system mentioned in 28.12.1 shall comply with the Interlock System Testing of Section 55, but the Interlock System Endurance Test of 55.2 shall be conducted for 6000 cycles. |



Standards Update Notice (SUN)

Issued: February 2, 2017

| Clause | Verdict | Comment |
|-----------|---------|---|
| 54 | Info | Switch Endurance Test Current for Appliances Rated in Wattage Only Review and retest of un-Recognized switches where the wattage measured under normal load conditions is less than the rated wattage |
| 54.1 | | To determine compliance with 6.18.1.2, the switch shall be subjected to an endurance test consisting of 6000 cycles of operation, making and breaking the rated current of the appliance. <u>If the appliance is not marked with a rated current, the test current shall be the input current measured under maximum normal load conditions as specified for the Input Test of Section 33, but not less than the measured input current with the unit loaded to its maximum marked wattage rating.</u> As a result of the endurance test there shall not be any electrical or mechanical malfunction of the device or undue pitting or burning of the contacts; and the fuse in the grounding connection shall not open. |
| 61.5.1.3 | | The appropriate impact test in accordance with 61.5.1.1 and 61.5.1.2 shall also be conducted on <u>nonmetallic</u> guards of moving parts capable of causing injury, such as food processor bowls and covers. |
| 73.4 | Info | Cord-connected knives |
| 73.4.1(e) | | The following shall be included in the Instruction Manual for cord-connected knives in addition to any other safety instructions required by the standard: a) Add to 72.1(b): "Do not operate knife in water or under running water." b) Add to 72.1(d): "Disconnect when changing blades." (This is also to be provided on the product). c) "Blades are sharp. Handle carefully. Always handle blades with hand away from cutting edge. Always store blades with cutting edge away from you." d) An illustration(s) showing the recommended procedures for handling blades of an electric knife shall be included in the Instruction Manual. The illustration(s) should depict the placement of the fingers and hand during such removal or insertion of the blades – that is, the palm is on the dull side of the blade and the fingers away from the sharp edge. e) <u>"Carefully route the power supply cord to avoid damage from the knife blades while cutting."</u> |
| 73.7 | Info | Knife sharpeners |
| 73.7.1 | | The following shall be included in the Instruction Manual for knife sharpeners in addition to any other safety instructions required by the standard: a) "Carefully route the power supply cord to avoid damage from the knife blades while sharpening." |
| | | 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. |