

## STANDARD INFORMATION

**Standard Number:** UL 1647

**Standard Name:** Motor-Operated Massage and Exercise Machines

**Standard Edition and Issue Date:** 6<sup>th</sup> Edition Dated August 3, 2015

**Date of Revision:** July 26, 2018

**Date of Previous Revision of Standard:** May 18, 2018

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **July 26, 2020**

## 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requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.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:** Construction requirement revision for Wood or Wood Composite Enclosure Materials. 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:

**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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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>
7	Info	<b>Frame and Enclosure</b>
7.1	Info	<b>General</b>
		<b><i>New clause added;</i></b>
7.1.5.1		<p>With respect to resistance to combustion, wood or wood composite materials used to form outer enclosures shall be separated from ignition sources. In addition, the construction shall comply with the following:</p> <ul style="list-style-type: none"><li>a) The enclosure shall comply with the Impact Test of 66.2 without exposure of live parts, including insulated wiring, or moving parts capable of causing injury; and</li><li>b) Temperatures on the enclosure material during normal operation shall not exceeding the limit specified in Table 49.1 for wood or other combustible material.</li></ul>
		<b><i>New clause added;</i></b>
7.1.5.2		<p>Ignitions sources within line-voltage circuits of the appliance are considered to be:</p> <ul style="list-style-type: none"><li>a) Uninsulated electrical connections, such as splicing wire connectors, quick-connect terminals, terminal connectors and other forms of wire connectors,</li><li>b) Printed circuit board traces,</li><li>c) Open coils and windings,</li><li>d) Open contacts, and</li><li>e) Wiring not employing VW-1 insulation.</li></ul> <p>Exception No. 1: Type S, SE, SO, SOO, ST, STO, STOO, SJ, SJE, SJO, SJOO, SJT, SJTO, AND SJTOO power cords are not considered to be ignition sources.</p> <p>Exception No. 2: Impedance protected motors employing open-coil or exposed winding constructions are not considered to be ignition sources if they comply with 7.1.7(a)(2) without emission of flames or molten metal from the motor housing.</p> <p>Exception No. 3: Thermally protected motors having openings in their enclosures are not considered to be ignition sources if they comply with the requirements in 7.1.7(a)(3) or 7.1.7(a)(4).</p> <p>Exception No. 4: Transformers complying with the Standard for Low Voltage Transformers – Part 1: General Requirements, UL 5085-1, and the Standard for Low Voltage Transformers – Part 2: General Purpose Transformers, UL 5085-2, are not considered to be ignition sources.</p>



CLAUSE	VERDICT	COMMENT
		<b><i>New clause added;</i></b>
		Separation of ignition sources from wood or wood composite materials shall consist of barriers and spacing as illustrated in Figure 7.0 as follows:
7.1.5.3		<p>a) A part located vertically below the ignition source and within Space A of Figure 7.0 shall be isolated by means of a barrier located and sized so that the barrier covers 5 degrees beyond each side of the ignition source as illustrated in Figure 7.0.</p> <p>b) A part located vertically above the ignition source and within Space B of Figure 7.0 shall be isolated by means of a barrier located and sized so that the barrier covers 30 degrees beyond each side of the ignition source as illustrated in Figure 7.0 and so that the minimum distance between the nonmetallic material and ignition source is no less than 4 inches (102 mm).</p> <p>c) A part located horizontally from the ignition source shall be isolated by means of a barrier located and sized so that the minimum straight line distance between the nonmetallic material and the ignition source is no less than 4 inches (102 mm).</p> <p>Exception: When the only ignition source is wiring not employing VW-1 insulation the minimum distance between the nonmetallic material and the ignition source may be 2 inches (51 mm).</p>
		<b><i>New clause added;</i></b>
7.1.5.4		The barrier specified in 7.1.5.3 shall be of metal or a nonmetallic material having a flammability class as specified in 7.2.1.

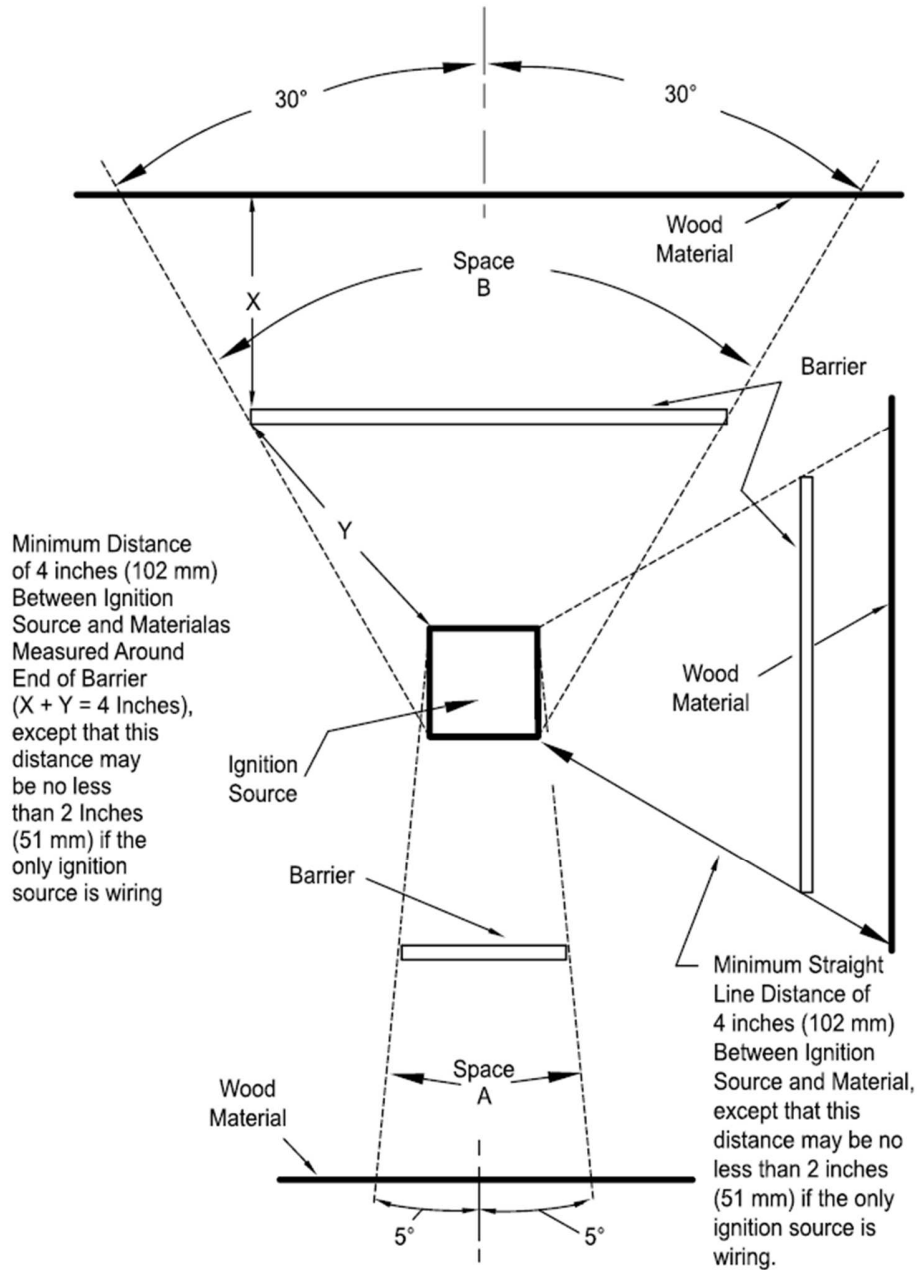


CLAUSE	VERDICT	COMMENT
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*New figure added;*

**Separation of ignition sources from wood or wood composite materials**

Figure 7.0



**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.