

## STANDARD INFORMATION

**Standard:** UL 1776

**Standard ID:** High-pressure Cleaning Machines [UL 1776:2002 Ed.3+R:04Feb2022]

**Previous Standard ID:** High-pressure Cleaning Machines [UL 1776:2002 Ed.3+R:12Feb2019]

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **January 1, 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 Reports not updated to this version by the effective date above will be withdrawn.

**Overview of Changes:** GFCI requirements revised to align with the National Electric Code (NEC). Specific details of new/revise 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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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
		<p>Additions to existing requirements are <u>underlined</u> and deletions are shown <del>lined-out</del> below.</p>
16	Info	<b>Supply Connections</b>
16.1	Info	<b>Cord-connected products</b>
16.1.8		<p>A single phase grounded or double-insulated product that is <del>rated 250 volts or less, single phase, 120 volts</del> and provided with a <u>15 amp or 20 amp attachment plug</u> shall be provided with a <u>Class A ground-fault circuit-interrupter (GFCI) for personnel protection</u> as an integral part of the power-supply cord attachment plug; or power-supply cord within 12 inches (305 mm) of the attachment plug face. The GFCI shall be marked "Rainproof" or "Suitable for Wet Locations" and investigated in accordance with the Standard for Ground-Fault Circuit-Interrupters, UL 943.</p> <p><u>All other single phase grounded or double-insulated products rated 150 volts or less to ground and 60 amps or less, shall comply with 16.1.8A.</u></p> <p><b><i>New clause added;</i></b></p> <p>A single phase (other than those products rated in 16.1.8) or three phase grounded or double-insulated product that is rated 150 volts or less to ground and 60 amps or less, shall be provided with a Class A ground-fault circuit-interrupter (GFCI) for personnel protection. The GFCI shall be readily accessible and located in one or more of the following locations:</p> <ol style="list-style-type: none"><li>(1) Within the branch circuit overcurrent device;</li><li>(2) A device or outlet within the supply circuit;</li><li>(3) An integral part of the attachment plug;</li><li>(4) Within the supply cord not more than 300 mm (12 in.) from the attachment plug; or</li><li>(5) Factory installed within the appliance.</li></ol> <p>For products provided with an integral GFCI (Items 3, 4, or 5 above), the GFCI shall be investigated in accordance with the Standard for Ground-Fault Circuit-Interrupters, UL 943. For GFCIs that are integral to the plug or the supply cord, the GFCI shall be marked "Rainproof" or "Suitable for Wet Locations".</p>
16.1.8A		
27	Info	<b>Receptacles</b>
27.4		<p>A 120-volt, single-phase, 15- or 20-ampere receptacle outlet installed in a <u>cord-and-plug connected</u> fixed product intended for outdoor use shall <del>have ground fault circuit protection</del> <u>be electrically-connected to the GFCI provided with the product, or be provided with Class A ground-fault circuit-interrupter (GFCI) for personnel protection as an integral part of the receptacle.</u></p>



CLAUSE	VERDICT	COMMENT
113	Info	<b>Cautionary and Warning Markings</b>
113.5	Info	<b>Electrically operated products</b>
		<p>A portable electrically operated product shall be provided with a tag attached to the power-supply cord. The tag shall be plainly and permanently marked with the following wording, or the equivalent, in the format shown. No substitute shall be used for "WARNING." The words "WARNING – RISK OF ELECTROCUTION" and "DO NOT REMOVE THIS TAG" shall be in block lettering. See 113.5.3.</p>
		<p>a) For a <u>cord-and-plug connected</u>, grounded product:</p> <p>"WARNING RISK OF ELECTROCUTION</p> <ol style="list-style-type: none"><li>1. Connect Only To Properly Grounded Outlet. Do Not Remove Ground Pin</li><li>2. Inspect Cord Before Using – Do Not Use If Cord Is Damaged</li><li>3. Keep All Connections Dry And Off The Ground</li><li>4. Do Not Touch Plug With Wet Hands"</li><li>5. For a product <del>rated 250 volts or less, single phase</del> <u>provided with an integral GFCI (see 16.1.8 and 16.1.8A):</u></li></ol> <p style="text-align: center;">"This Product Is Provided With A <u>Class A</u> Ground Fault Circuit Interrupter Built Into The Power Cord Plug. If Replacement Of The Plug Or Cord Is Needed, Use Only Identical Replacement Parts."</p> <ol style="list-style-type: none"><li>6. For a product <del>rated more than single phase, or more than 250 volts</del> <u>not provided with an integral GFCI (see 16.1.8 and 16.1.8A):</u></li></ol> <p style="text-align: center;">"This Product Shall Only Be Connected To A Power Supply Receptacle Protected By A <u>Class A</u> Ground Fault Circuit Interrupter"</p> <li>7. "Read Instruction Manual Before Using.</li> <p style="text-align: center;">DO NOT REMOVE THIS TAG"</p>
113.5.1		
		<p>b) For a <u>cord-and-plug connected</u>, double-insulated product:</p> <p>"WARNING RISK OF ELECTROCUTION</p> <ol style="list-style-type: none"><li>1. Inspect Cord Before Using – Do Not Use If Cord Is Damaged</li><li>2. Keep All Connections Dry And Off The Ground</li><li>3. Do Not Touch Plug With Wet Hands</li><li>4. Double Insulated – When Servicing Use Only Identical Replacement Parts".</li><li>5. For a product <del>rated 250 volts or less, single phase</del> <u>provided with an integral GFCI (see 16.1.8 and 16.1.8A):</u></li></ol>



CLAUSE	VERDICT	COMMENT
		<p>“This Product is Provided With A <u>Class A</u> Ground Fault Circuit Interrupter Built Into The Power Cord Plug. If Replacement Of The Plug Or Cord Is Needed, Use Only Identical Replacement Parts.”</p> <p>6. For a product <del>rated more than single phase, or more than 250 volts</del> not provided with an integral GFCI (see 16.1.8 and 16.1.8A):</p> <p>“This Product Shall Only Be Connected To A Power Supply Receptacle Protected By A <u>Class A</u> Ground Fault Circuit Interrupter.”</p> <p>7. “Read Instruction Manual Before Using</p> <p>DO NOT REMOVE THIS TAG”</p>
115	Info	<p><b>Instructions Pertaining to a Risk of Fire, Electric Shock or Injury to Persons</b></p> <p>The items in the following list may be numbered and other instructions pertaining to a risk of fire, electric shock, or injury to persons that the manufacturer believes are needed may be included.</p> <p>9. For a <del>grounded or double insulated product rated 250 volts or less, single phase</del> product provided with an integral GFCI (see 16.1.8 and 16.1.8A):</p> <p>“This Product Is Provided With A <u>Class A</u> Ground Fault Circuit Interrupter Built Into The Power Cord Plug. If Replacement Of The Plug Or Cord Is Needed, Use Only Identical Replacement Parts.”</p> <p>10. For a <del>grounded or double insulated product rated more than single phase, or more than 250 volts</del> product not provided with an integral GFCI (see 16.1.8 and 16.1.8A):</p> <p>“This Product Shall Only Be Connected To A Power Supply Receptacle Protected By A <u>Class A</u> Ground Fault Circuit Interrupter.”</p> <p>a) The instructions for a Type 1, 2, or 3, <u>or 4</u> cleaning machine, as applicable, shall include the following or equivalent statement, preceded by the specified signal word:</p> <p><u>4. For a Type 4 cleaning machine:</u></p> <p><u>“WARNING – Risk of Injection or Severe Injury – This machine shall only be used with cold-water. Keep Clear of Nozzle – Do Not Direct Discharge Stream at Persons – This Product Is To Be Used Only By Trained Operators.”</u></p>
115.3		<p>The instructions pertaining to a risk of fire, electric shock, or injury to persons, or the installation instructions shall include (a) – (c), as applicable in the format shown. If the applicable instructions in (a) – (c) are included in the installation instructions, a reference to these instructions shall be included in the list</p>



CLAUSE	VERDICT	COMMENT
		<p>mentioned in 115.1 as a separate item. The headings “GROUNDING INSTRUCTION,” “EXTENSION CORDS,” “SERVICING OF A DOUBLE INSULATED PRODUCT,” “GROUND FAULT CIRCUIT INTERRUPTION PROTECTION”, and the signal words “DANGER” and “WARNING” shall be entirely in upper case letters or shall be emphasized to distinguish it from the rest of the text.</p> <p>a) Cord-and-plug Connected, Grounded Products:</p> <p>1. For a product <del>rated 250 volts or less, single phase</del> <u>provided with an integral GFCI (see 16.1.8 and 16.1.8A):</u></p> <p>This pressure washer is provided with a <u>Class A</u> ground-fault circuit-interrupter (GFCI) built into the plug of the power-supply cord. This device provides additional protection from the risk of electric shock. Should replacement of the plug or cord become necessary, use only identical replacement parts that include <u>Class A</u> GFCI protection.</p> <p>2. For a product <del>rated more than single phase, or more than 250 volts</del> <u>not provided with an integral GFCI (see 16.1.8 and 16.1.8A):</u></p> <p>To comply with the National Electrical Code (NFPA 70) and to provide additional protection from the risk of electric shock, this pressure washer shall only be connected to a receptacle that is protected by a <u>Class A</u> ground fault circuit interrupter (GFCI). <u>This GFCI protection shall be part of the receptacle device or within the branch circuit overcurrent device supplying the receptacle.</u></p> <p>b) Cord-and-plug Connected, Double Insulated Products:</p> <p>1. For a product <del>rated 250 volts or less, single phase</del> <u>provided with an integral GFCI (see 16.1.8 and 16.1.8A):</u></p> <p>This pressure washer is provided with a <u>Class A</u> ground-fault circuit-interrupter (GFCI) built into the plug of the power-supply cord. This device provides additional protection from the risk of electric shock. Should replacement of the plug or cord become necessary, use only identical replacement parts that include <u>Class A</u> GFCI protection.</p> <p>2. For a product <del>rated more than single phase, or more than 250 volts</del> <u>not provided with an integral GFCI (see 16.1.8 and 16.1.8A):</u></p> <p>To comply with the National Electrical Code (NFPA 70), and to provide additional protection from the risk of electric shock, this pressure washer shall only be connected to a receptacle that is protected by a <u>Class A</u> ground fault circuit interrupter (GFCI). <u>This GFCI protection shall be part of the receptacle device or within the branch circuit overcurrent device supplying the receptacle.</u></p>