

# KÄRCHER

makes a difference



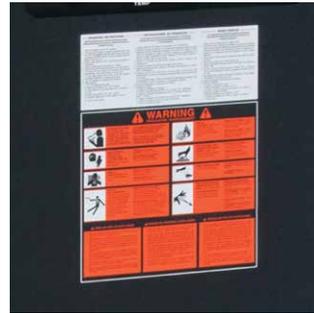
## **SAFETY-CERTIFIED.**

Protecting you and your business.

**PROFESSIONAL** | SAFETY CERTIFICATIONS

# ENGINEERED FOR SAFETY.

As a professional, you place the highest demands on your machines and equipment: our aim is to meet these demands safely. Because we are also professionals, and because we want to earn your trust. Time and again. We make sure all our equipment is tested and certified by nationally recognized testing laboratories and meet the strictest safety standards. Here are just a few of the features that qualify our pressure washers for the additional confidence and liability protection you receive when you own a Kärcher pressure washer.



## Special Testing

Kärcher units are Intertek (ETL) certified to UL and CSA industry safety standards, which is compliant to OSHA regulation 1910.399 and Consumer Protection Act, Section 102, Section 14 (a)(2).

## Warning Labels

Our labels are resistant to oil and gasoline.

## High Pressure Pump

Kärcher manufactures its own pumps, and they are backed by a 3 or 7-year warranty.

## Heating Coil

The heating coil size is custom matched for optimum performance. They are backed by a 5-year non-prorated warranty.

## Thermostat

Kärcher pressure washers offer thermostats for adjusting the temperature – saving fuel without compromising cleaning power.

## Electrical Components and Enclosures

Kärcher uses only certified electrical components that meet the NEC standard and pass all rigorous current leakage, temperature, dielectric strength and water spray testing UL 1776 section 84.

## Ground Fault Circuit Interrupters

For operator protection, a factory-installed GFCI must be, according to the NEC Code, “an integral part of the cord attachment plug located within 12 inches of the attachment plug” on all portable machines 250 volts or less, single phase.

## Trigger Gun

All Kärcher pressure washers with pressure ratings above 100 PSI come standard with a trigger gun for quick-release control by the operator.

## Wand

All Kärcher hot water units come with insulated wands and are manufactured to exact length required by safety standards - helping to prevent operators from accidentally spraying themselves with a high-power spray.

## Hose

All hoses are marked with working pressure and temperature. All are tested to 2.5 times the operating pressure on hot water pressure washers and 2 times the operating pressure on cold water pressure washers.

## Temperature Control Switch

Thermostat automatically shuts down the burner should water overheat.

## Unloader Valve

Relieves pressure buildup in the pump when the pressure washer is running but not washing.

## Backflow Protection

Prevents cleaning water and soap from backing up into the water supply.

## Safety Relief Components

Contains one of the following: rupture disk, pressure relief valve, and/or unloader valve. Protects against excessive buildup of pressure.

## Electrical Cord

UL-1776 specifies that power cords on portable models must be certified as “water resistant”. They must also be at least 35 feet long to discourage use of extension cords that are unprotected by the required ground fault circuit interrupter (GFCI).

## Componentry Tested

All electrical components must be individually evaluated. Machines are subjected to a dielectric voltage withstand test that identifies current leakage that can cause an electrical short.



## CERTIFICATIONS Q&A.

### **Q. Who created the standards used in the pressure washer industry?**

**A.** The UL-1776 standard was created by Underwriters Laboratories (UL) at the request of the Cleaning Equipment Trade Association (CETA). Up to that point there was no specific standard for pressure washers in the United States. In Canada, the B140.1-M89 pressure washer standard was created by the Canadian Standards Association (CSA) for the Canadian marketplace. UL and CSA have created many of the recognized standards in North America.

### **Q. Who is allowed to independently certify equipment to the various standards?**

**A.** Any one of the 14 (in the U.S.) Nationally Recognized Testing Laboratory (NRTL) or also known as third party test labs can independently certify pressure washers to the appropriate standard. The major NRTL's recognized by the Occupational Safety & Health Agency (OSHA) and the Standards Council of Canada (SCC) are UL, Intertek Testing Services (ETL), or CSA.

### **Q. Are there any new pressure washer standards coming in the near future?**

**A.** Yes. The new UL 60335-2-79 (E60335-2-79-09 for Canada) safety standard is already in effect, and manufacturers have until March 1, 2021 to make any design changes necessary to comply. UL 60335-2-79 was harmonized with the IEC 60335 part one and 60335-2-79 in order to have a single safety standard for pressure washers which is used around the world. This new standard allows more consistency with safety design and testing to ensure our products meet the stringent safety standards used by other nations.

Please contact us for more information:

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