

## Title: How Does an Electric Pressure Washer Work?

**Meta Description:** If you have been wondering how an electric pressure washer works, this article explains it all in straightforward terms. The write-up also explains different parts of the appliance and also gives details of how the components work together.

### Introduction



It is essential to remind you that an electric power washer is a system of interconnected components. So, this article lists out all the vital parts of the appliance and explains the function of each element. Of course, every piece is essential because when anyone of them breaks down, the pressure washer will stop working.

The article also discusses how all the components work together to perform the necessary functions. It also discusses the drawbacks of this seemingly indispensable machine. So, without further ado, let's get down to business.

**Significant Parts of an Electric Power Washer:**

### **1. Detergent container**

The detergent container is also called the detergent or soap tank. It is where the detergent is stored. Soap flows from this point into the system where it mixes up with water, and the mixture is sprayed out.

### **2. Water source**

The source of water is often a faucet. It is the primary source of water for the pressure washer. We don't have to tell you that without water from the source, your power washer can't function as it won't have water to spray out. Clean water flows into the system through another hose before getting to mix with the soap.

### **3. Electric motor**

This component powers the electric pressure washer to spray out the mixture of water and soap. Based on its specification, it powers the water with a certain amount of force. Its unit of measurement is pounds per square inch (PSI).

### **4. Water pump**

Although this is self-explanatory, we will still tell you a thing or two about it. The pump pulls the detergent and water. It mixes them up and squirts the mixture. Some power washers even heat the water before spraying it. The pump shoots out soapy water via a high-pressure hose. A nozzle is attached to the tube, and the spray tip is quite narrow, and this helps to increase the pressure with which water will be pumped out.

## How an electric pressure washer works? – 5 Steps



We have already given you an idea of how the appliance works. Nevertheless, we will explain it here again. After setting it up, you will need to add some soap in the appropriate container, as described above. Secondly, you will also need to connect it to a reliable water source.

Attach the right nozzle to its pump. Once you turn it on, the motor will power the operation, and water will come out. You only need to point it at the target. Electric power washers can squirt water with a force of about 1000 psi to 2400 psi.

### **Drawbacks of an electric pressure washer**

As indispensable as this appliance is, it also has a few shortcomings, and we have outlined them below.

#### **1. Power consumption**

The appliance consumes a substantial amount of power while it is in use. Although the energy it consumes may not be so much, it is enough to tip the scale. And when it becomes faulty or when it's getting old, its power consumption will increase drastically.

#### **2. Huge water consumption**

Water is not free in most parts of the world, so this gives some concerns. An electric power washer consumes about 1.5 to 2 gallons of water per minute. Gas models consume even more. This appliance may not be suitable for locations where water supply is inadequate.

Also, you must have a sound drainage system where the water has to pass through. Without a proper

drainage system, using a power washer may be equal to an invitation for a flood.

### **3. The appliance is noisy**

Power washers are noisy appliances. They don't operate silently. A typical pressure washer generates a sound level of about 75 to 90dBA. So, you must use it during the day if you don't want to constitute a nuisance in your neighborhood.

### **4. It is messy**

Wherever a power washer operates, it leaves a mess as it blasts grime and dirt around. The machine will not spare you, as well. If you are not careful, it will splash trash all over you. For this reason, you may need to wear protective shoes and overalls.

### **5. There are safety issues involved**

Electric pressure washers run on only electricity, and it pumps water. Unfortunately, water conducts electricity and could lead to an electric shock. While this may not always happen, you risk it happening each time you use it. Its second [safety issue](#) is the power cord. When you leave it plugged even after use, anyone can trip over it or run into it.

#### **Safety Precautions**

When it hits you, water from a pressure washer can damage the tissue in your body. So, to avoid mistakenly spraying it on anyone, don't point it towards anyone. The nozzle should always point down when you are not spraying water. You know it can etch concrete. Never let anyone aim the nozzle at you. It is not a squirt gun.

Always wear waterproof protective materials. Cover your eyes, your body, and your feet. Some of the grime you'll be blasting off may be toxic. Your skin may react to it if the dust comes in contact with your skin.

Don't use a ladder when cleaning with a power washer. You could lose your balance while on a ladder and fall off it. So, it is not advisable to use the machine on heights.

Rid your surroundings of obstacles and other hazardous items before you begin to use the device. It is essential to check the floor to be sure it is not slippery. Most importantly, you must be sure that no kid, pet, or anyone can come over to the place while you are busy. The noise from the machine may not let you hear any footsteps.

#### **Final Verdict**

If you have been following this article from the beginning, you should now have good knowledge of how an electric pressure washer works. You should also know the major components of an electric power

washer. Most importantly, you should have learned a couple of safety precautions when using the appliance.

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