

# Description of an Electric Kettle

An electric kettle is an electric kitchen appliance that has its own heating unit used for heating water. This offers a faster and more convenient way to boil water than the traditional stove top kettle as all they require is an available electrical power outlet. It consists of a cylindrical hollow container with a lid, spout, and handle and a circular base that fits on the bottom of the base.



## The Body

The body is a metal hollow container with a plastic lid and a plastic handle and a flat bottom. The brand of this kettle, Hamilton Beach, is printed on the side. Attached to the side of the body near the top is the spout. The spout is also metal and covers the holes in the body that lets the water pour out. There are about 20 small holes that are covered by the spout. The top of the body has black plastic lid that can partially detach by pressing the circular button in the middle of the lid.

The handle is quite large going along the whole body with indents on either side of the handle. On the inside of the handle is a transparent plastic that shows how much water is in the body. There are markings on the transparent plastic that have 0.5L, 0.75L, and 1.0L with more information such as “max” and “min” that further shows how much water there is. Directly below the handle is a lever that turns on the electric kettle. There are markings on each side of the switch to indicate if it is on or not. Unlike the handle or the body, the switch is made of clear plastic.



## The Base

The base of the electric kettle is a black circular structure that elevates about an inch in so the body fits on top of it. There is also a smaller circular structure protruding from the middle of the base that delivers the heat produced to the body. The entire base is covered in black plastic.

The bottom of the base consists of a rounded triangle with three prongs placed in the empty space between the triangle and the circular base. Out of one corner of the rounded triangle is a cord. This cord provides the power connection as it connects to a standard electrical outlet when in use. When not in use, the prongs ensure that the cord can be wrapped around the bottom and fits snugly. There is also writing on the bottom that details the warnings, the model, and data on the electric kettle.

The purpose of the base is to produce heat and it does that by converting electrical energy into heat. Inside the base, there is a heating element and a thermostat. Through the power cord, the electricity flows through the heating element and it produces heat. The thermostat connects the heating element, temperature monitor, and the on/off switch. There is no risk of boiling the water dry because the thermostat sends a shutoff signal when the boiling point is reached that automatically turns off the kettle. As exposing the heating element to water is potentially dangerous, it is covered up by the black plastic and we do not see it.



## The Conclusion

The body of the electric kettle is a stainless steel, hollow container with a flat bottom that acts as a water reservoir. The base is a black circular structure with a smaller circular structure protruding out the middle. The body fits comfortably on top of the base. The base produces the heat and sends it up to the body holding the water in order to boil the water. This is a relatively smaller electric kettle as it only holds one liter and most modern electric kettles hold two liters, but the design is the same.