

WAPI Kits

Water Pasteurization Indicator

OVERVIEW

A WAPI is a device that contains a special wax that allows individuals to determine when water and other liquids have reached pasteurization temperatures, at which disease-causing organisms in liquids are killed. The great thing about WAPI is that it is reusable!

Making a WAPI

These instructions summarize the WAPI building process, but for a visual tutorial you can click this [link](#).

1. Order your WAPI kit.
2. Unbox your WAPI kit.
3. Take a tube and heat one end to soften it (in the video an Embossing Tool is used). Once it is warm enough, and bubbling a little bit, take your pliers and seal down the end by squeezing the tube while it is still soft.
4. Holding the end of the tube that was just sealed, add the washer. Then, add about a half inch of wax in the tube.
5. Repeat step #3 to seal the other end. Now you should have a sealed tube with wax inside.
6. Take a small drill and drill holes in the sealed tube on the melted edges. One way that this could be done is on the edge of the box that the WAPI kit was mailed in.
7. Take your stainless wire and cut it in 12 to 15 inch lengths. (Using pliers to cut the wire will make cutting the wire much easier).
8. Put the wire in your compression sleeve. Then, take the wire and double back creating a loop.
9. Take heavier pliers and crimp the compression ring to keep the loop in place.
10. Take your wire and run it through a hole on one end. Hold it down and run the washer over it (pushing the wire down can push the wire up making it easier to grab). Pull the wire and run it through the hole on the other end. Pull it all the way through.
11. Repeat step #8 to create another loop on this end.
12. The WAPI is now done.

Testing a WAPI

1. Use a heavier wire to create an S hook. To do this, cut the wire around 2-3 inches and then bend it to an S shape. Using pliers can help make this easier.
2. Hook the WAPI on the S hook and hook the other end of the S hook into the side of a pot.
3. Heat water until the wax is melted. If the water is clear the water is pasteurized.
4. If there are no leaks or holes, the WAPI is ready to be shipped. Make sure to dry the WAPI before packaging.
5. If the WAPI has a hole or leaks discard the WAPI.

Ordering WAPI Kits

To order WAPI Kits contact PDG Don Kremer at WAPI@pacbell.net. These WAPI Kits come in a small box with instructions and the materials needed to build 200 WAPIs.