

# Maintenance Procedures for the DP800 & DP800-DLX

Updated on 3/1/2010

Please note that the DP800 and the DP800-DLX are functionally the same water distiller, but with different dispensing options. The maintenance is the same on each.

## ***Basic Maintenance:***

Maintenance on the DP800 is very simple. First you need to ensure that the water going into the machine is softened. Second, the boiling tank needs to be drained every Monday morning.

## ***Draining the Boiling Tank:***

**CAUTION:** *failure to follow this procedure can cause damage to the machine.*

**CAUTION:** *water from the boiling tank can be very hot.*

The boiling tank should be drained only when the distilled water tank is full, and the machine itself is cool. Never drain the boiling tank when the machine is operating (the fan is running) or if the water coming out of the red spigot is hot. For these reasons, we recommend that you get in a routine of draining the boiling tank first thing every Monday morning BEFORE removing any distilled water from the unit.

Once per week do the following.

1. Turn the machine off (See figure 1 for location of On/Off Button and Power Indicator Light).
2. Drain approximately 2 cups of water out of the boiling tank – use of a ceramic cup is recommended. The boiling tank is drained via the red spigot on the right side of the machine (See Figure 1).
3. Once you've finished draining the boiling tank, wait 15 minutes before turning the machine on. This is very important because the boiling tank needs time to fill up with water gain or the heating element can burn out.
4. Turn the machine on. You can access distilled water immediately after turning the machine back on.

## ***Softened Water***

Making sure that the feed water is softened is the most important action you can take to reduce maintenance and to ensure a long, trouble-free life for your distiller. We recommend that a water softening cartridge system (part number 110-8200) should be purchased with every DP800, even if you have an automatic water softener. Automatic softeners typically do not reduce water hardness to zero, and most allow hard water to pass through during the regeneration cycle so the softener cartridge system will offer an extra level of protection. The softener cartridge will have to be replaced periodically.

How often the cartridge needs to be replaced is calculated with a mathematical formula based on the hardness of your water and how much water you use. Although it seems complicated, it's actually a very simple formula. This should only need to be calculated once.

Formula: To calculate how often you need to change the softener cartridge use the following formula...

4,500 Grain (Capacity of each softener cartridge)

DIVIDED BY

The number of Grains per gallon in the feed water (Ask a plumber or the municipal water company how hard the water in your area is or call us and we will send you test strips).

EQUALS

The total number of gallons that each softener cartridge can handle. For example, if your water is 10 grains hard the softener cartridge can produce 450 gallons of softened water before it needs changing.

MULTIPLY

(Multiply this number by three, because the machine makes a gallon of distilled water every three hours).

The number that you end up with is the number of hours that the machine will operate before you have to change the softener cartridge. The hour meter is on the side of the machine. So in the above example, the machine run 1,350 hours before you have to change the cartridge. Make note of this number, and periodically check the hour meter on the side of the DP800. When the unit gets close to this number you should change the water softener cartridge. When you change the cartridge, you should wait the same number of hours before you have to change the next one.

If you need any help with understanding this procedure or if you would like us to calculate this formula for you, please give us a call at 1-800-617-2401.

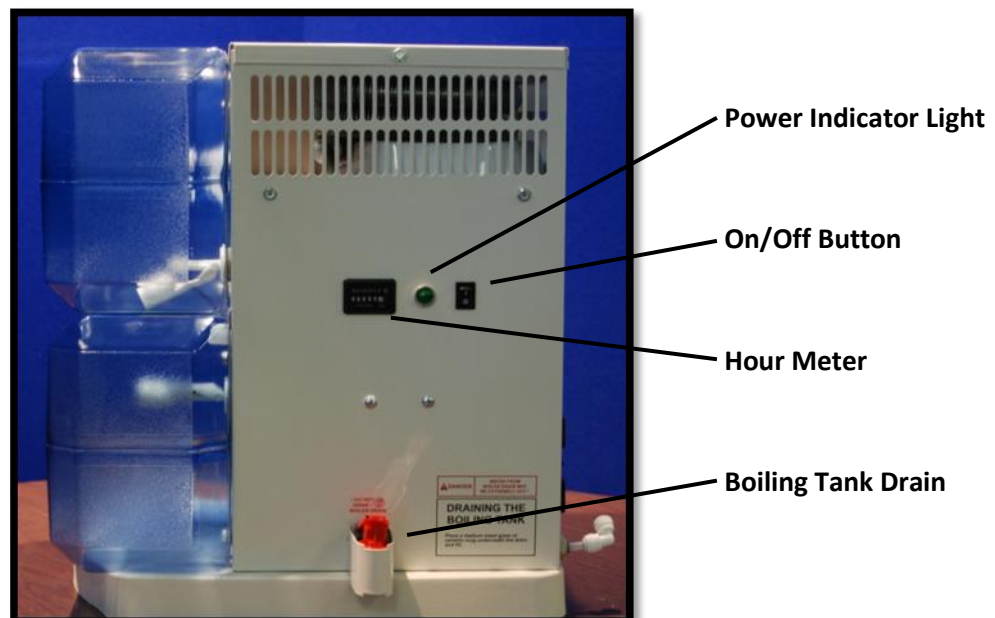


FIGURE 1.