



Models 500E
Automatic Water Distillation System
Instruction Manual



Thank you for purchasing the Model 500E Water Distillation System. It will provide your household with freshly made ultra clean, great tasting water. **Please read this informative Instruction Manual** for a quick, easy and enjoyable water making experience and to begin drinking the **PUREST** water possible right away.

INCLUDED: (Cleaner, AC pods and manual may be shipped separately)
Distiller, (Evaporator chamber, condensing coil, cooling fan & electronics.)
Reserve Tank, (for distilled water collection and storage.)
Source Water Valve, (to connect to your cold-water supply line.)
Pre-Filter and fittings, (install between source water line & distiller inlet.)
Post-Filter Cup with media, (install between the distiller and reserve tank.)
Six-pack Activated Carbon Pods, (replaces loose carbon media.)
Distilled water faucet and water gauge, (blue handled dispenser)
Drain Valve, (for weekly draining of the evaporator tank.)
Jar of Water Distiller Cleaning Crystals, (to clean evaporator chamber.)
This Instruction Manual, (for quick and easy installation and operation.)

PLEASE DO NOT DISCARD SHIPPING BOX, STYROFOAM OR PACKAGING UNTIL ALL PARTS HAVE BEEN LOCATED.

SAFETY INSTRUCTIONS - Read Before Installing

SCALDING DANGER!

- ▲ Locate the unit in a safe place that is not accessible to children.
- ▲ Particular attention should be made to the accessibility of the drain valve. If it is opened during or soon after operation, scalding hot water will be discharged. **Always be sure that the unit has been off for an hour or so before opening the drain valve or evaporator.**

ELECTRICAL PRECAUTIONS:

- ▲ Do not use extension cords unless absolutely necessary and in those cases, use a heavy-duty cord.
- ▲ Do not share the same outlet with other appliances to prevent overloading.
- ▲ Push plugs all the way into the sockets to avoid a poor connection which could result in arcing.
- ▲ Unplug the power cord when cleaning the unit.

LEAK PREVENTION:

- ▲ **Use Teflon pipe fitting sealing tape on all threaded joints** by wrapping clockwise sufficiently to prevent leaking. Be careful not to overtighten the fittings or thread damage could occur.
- ▲ **Be sure the Drain Valve and Reserve Tank Faucet remain closed.**

Only 5 installation steps to begin enjoying your pure distilled water!

Step 1-SOURCE WATER VALVE INSTRUCTIONS:

The Source Water Valve installs between your cold-water line and the riser line to your faucet. Or it can be installed into a utility faucet or other pipe junction by installing it between the faucet and the cold-water line where the faucet was originally attached. Then attach the 1/4" source water line to the fitting and run the other end of the water line to the pre filter and distiller.

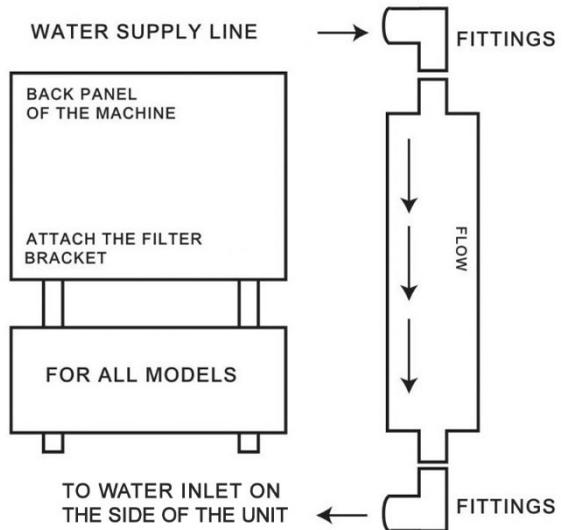


Alternatively, inexpensive clamp style valves are available at any hardware store. They simply clamp on to a copper source water line, (under you sink for example). Turn the valve clockwise to pierce the copper line, attach 1/4" water line to the fitting and run the water line to the pre filter and distiller.



Step 2- PRE FILTER INSTRUCTIONS:

Attach the pre-filter to the distiller using the supplied bracket and the screw located at the lower right-hand corner of the back of the main distiller unit. The water flow arrow on the pre-filter should be pointed downward. Using Teflon tape, attach the incoming source water supply line to the incoming end of the pre-filter, (on top), and the outgoing water line to outgoing end of the pre-filter,



(on bottom). Attach the water line coming from the pre filter to the inlet on the left side of the distiller. Push water line firmly onto the inlet and tighten.

Step 3- POST FILTER INSTRUCTIONS:

Wash, rinse and dry the Activated Carbon Post Filter Cup and fill it with the supplied carbon media or insert an H2o Labs Activated Carbon Pod. It is important to rinse the carbon well, (with distilled water if possible), until all carbon dust has been cleaned from the carbon. *(The carbon dust is harmless charcoal made from coconut shells, but you do not want it to end up in the holding tank or in your drinking water.)* Install the cup under the distiller, on top of the reserve tank at the back left corner where the hole is. (Before the first installation, make sure to remove the tape seal that covers the hole before inserting the cup into the storage tank.)

Attention Labs and Dental Offices: If the distilled water is not to be used for drinking purposes, (for example dental autoclaves, scientific or laboratory use), DO NOT use a Post Filter or activated carbon media as it could cause higher than acceptable PPM water testing results.

Replacing the Post Filter Activated Carbon Media:

The activated carbon in the post filter cup should be changed monthly. Simply empty the cup and wash, rinse and dry well. Then fill the cup with new activated carbon. It is important to rinse the carbon with distilled water to remove any dust before repositioning the cup on the top of the holding tank. *(Note that the use of the activated carbon is optional and it is not mandatory to use unless the user has odorous water or is concerned about VOCs in their local water.)*

A Six-pack of convenient “drop-in” activated carbon pods is included with your distiller which replaces the loose activated carbon mentioned above.

Step 4- Attach the drain valve to the right side of the distiller using Teflon tape. **▲ Be sure that the valve is closed after installing.**

Step 5- Attach the blue handled faucet and water gauge to the reserve tank using Teflon tape to prevent leakage. Be careful not to scratch the front of the unit when turning the dispensing assembly into the outlet. **▲ Be sure that the faucet is closed.**

OPERATION:

Open the source water supply valve; plug power cord into an outlet and press green power button on. Water will flow to the evaporator tank until full and the distiller will start the process automatically. Allow distiller to operate until the reserve tank is full and it has turned off automatically. Do not turn off the power switch while unit is operating, or the automatic water refilling process may not begin when necessary. (System may have to be reset.)

After the distiller has completed the first cycle and the reserve tank is full, open the reserve tank faucet to completely drain the distilled water reserve tank to discard all of the distilled water made from the first cycle. After that, the distilled water made from the 2nd and all subsequent cycles may be used and enjoyed.

CLEANING and MAINTENANCE:

IMPORTANT: The evaporator tank should be DRAINED WEEKLY.

It only takes a couple minutes and will save cleaning time and reduce future maintenance. **WARNING! Do not attempt to drain the tank until at least one hour after the unit has turned off or scalding could occur.** To drain the tank, simply open the valve on the right side of the distiller. (It is suggested to obtain a clear plastic or rubber hose of sufficient length to reach from the drain valve to your sink or a bucket for ease of draining.)

Be sure to close the drain valve after draining. Tighten it only enough to stop the dripping as using too much force to tighten could damage the valve.

The more frequently the above process is conducted, the fewer major cleanings will have to be performed as the scale and contaminants will be flushed away instead of allowed to harden on the heating element and interior of the evaporator tank.

Follow the steps below and on next page to inspect and clean the inside of the evaporator tank MONTHLY, (or more or less often depending on the source water conditions and amount of distilled water produced.)

1-Be sure the green power switch is off; the distiller is unplugged from the wall outlet and has been allowed to cool for at least an hour.

2-Drain the evaporator tank from the Drain Valve on the right side of the unit, into a bucket. **▲ Be sure to close the Drain Valve after draining.**

3-Unfasten the 4 screws on the top cover to remove it. Then unscrew the 2 wing nuts on top of the evaporator and remove the lid.

4-Clean out as much crystallized and other water scale in the evaporator as reasonably possible. Pour the recommended amount of citric acid water scale cleaning crystals and enough warm water to cover the heating element, and let it soak for a couple hours or so, or even overnight if necessary to soften the scale.

5-After the scale on the heating element has been allowed to soften, wipe it off and then drain and sponge out the evaporator. Pour more water into the boiling tank and drain repeatedly until the scale residue has been drained.

6-Inspect and clean the evaporator water level sensors. There are two sensors, (paddles), extending into the boiling tank that control the shut-off valve solenoid and turn on the heating element. As the evaporator fills, the water first reaches the longer paddle and when it reaches the shorter paddle it makes the connection and completes the circuit. If the paddles are dirty and the connection is not good, it can cause water not to shut off and continue to fill the boiling tank and possibly overflow into the holding tank.

7-Inspect the cooling fan and condensing coil. If dirty, use a toothbrush or vacuum cleaner to remove the dust.

8-When cleaning is completed, replace the evaporator lid and fasten the wing nuts just tight enough to ensure no steam will escape during operation. This just needs to be hand tight.

▲ Be sure to close the Drain Valve when completed or water leaking will occur.

The distilled water reserve tank does not normally require cleaning, but it can be flushed using distilled water if necessary if you suspect it has been contaminated in any way.

TROUBLE SHOOTING:

Unit does not come on and green switch-light is NOT illuminated:

A-Check to see if the power switch is on and unit is plugged in.

B-Check household breakers.

C-Check if distiller fuse is blown and replace if necessary.

Unit does not come on and green switch-light IS illuminated:

A-Unit may have been turned off manually and will reset after a sufficient amount of water has been withdrawn from the reserve tank. (To manually restart right away, simply unplug the power cord and then plug it back in.)

B-Make sure source water valve is open.

C-Check the 2 sensor inductors hanging from the cover of the evaporator to see if they are clogged with scale.

Water Leaking:

A-Check all filter and other water line fittings and tighten if necessary.

B-Make sure Activated Carbon Post-Filter Cup is positioned properly and check to see if the tube bringing water into the cup is positioned correctly or if it is cracked or leaking.

C-If water is leaking from the faucet while closed, tighten the fitting above the blue handle, or tighten the faucet assembly to the reserve tank.

D-If the evaporator tank drain valve is leaking while closed and sufficiently tight, it is most likely due to a worn-out rubber ring on the rotating shaft.

Simply replace the rubber ring with a new one.

Water continues to fill boiling tank when full:

A-The source water is too pure, (distilled or reverse osmosis, etc.) Use only tap water to fill the boiling chamber or the conductivity of the water will not allow the electronic sensors to operate properly.

B-Verify sensor wires are connected securely or replace solenoid.

Unit makes a continuous clicking sound:

Evaporator sensors may not be synchronized. (*Red wire connects SHORT sensor paddle. Blue wire connects LONG sensor paddle.*) Open the evaporator lid and while holding it, turn the unit on and touch each sensor to the stainless-steel tank. Do this repeatedly until the long sensor does not have any effect. (Only the short sensor should shut the water off and trigger the fan to start.) Operation of the unit should now be normalized without the continuous clicking sound.

TROUBLE SHOOTING Continued:

Testing of the distilled water indicates it is not sufficiently pure, (ie: greater than 100 ppm):

A-Undistilled water could be over-flowing from the evaporator into the reserve tank. (See above “Water continues to fill boiling tank when full.”)

B-Activated carbon dust has entered the reserve tank from the post filter cup. Empty, and rinse post-filter cup and reserve tank well. Allow to dry completely. Run a complete cycle and empty. Run a 2nd cycle and retest.

C-Sensor paddles in the evaporator are dirty. Using the recommended amount of citric acid cleaning crystals and warm water solution, soak the paddles for a couple hours or so until softened and then wipe any remaining residue from the paddles. It is also recommended to clean the evaporator and to empty the reserve tank and allow to dry completely. Run one complete cycle and empty again. Run the 2nd cycle and retest the water.

D-If the distilled water continues to indicate lack of purity, the solenoid may be sticking due to particles lodging inside it. Replace solenoid if above suggestions do not resolve the purity issue.

If the above suggestions do not solve the problem, DO NOT ATTEMPT to conduct other repairs yourself. Contact our Technical Support team or an appliance serviceman for repairs.

SPECIFICATIONS - Model 500E:

Output: 5 Gallons per Day (19-20 Liters)

Reserve Capacity: 3.25 Gallons (12 Liters)

Stainless Grade: 18-8 Stainless Steel

Size: 13¾” (35cm) wide (front); + 2” (5cm) additional width for drain valve.
10 3/4” (27cm) deep, (front to back); 17 3/8” (44 cm) high.

Weight: 33 lbs. (15 KG) N.W; Shipping Weight 35 lbs. (16 KG)

Packaging: 17” (43cm) X 20” (50cm) X 22” (56cm)

Power Source: 240V, 50 Hz.

Power Consumption: 675 Watts

Fuse: 240 Volt 6 Amp.

Distributed by H2o Labs, Ltd.

To order Cleaning Crystals, Activated Carbon Pods or parts:

Visit www.H2oLabs.co.uk or call 0800 102 6510