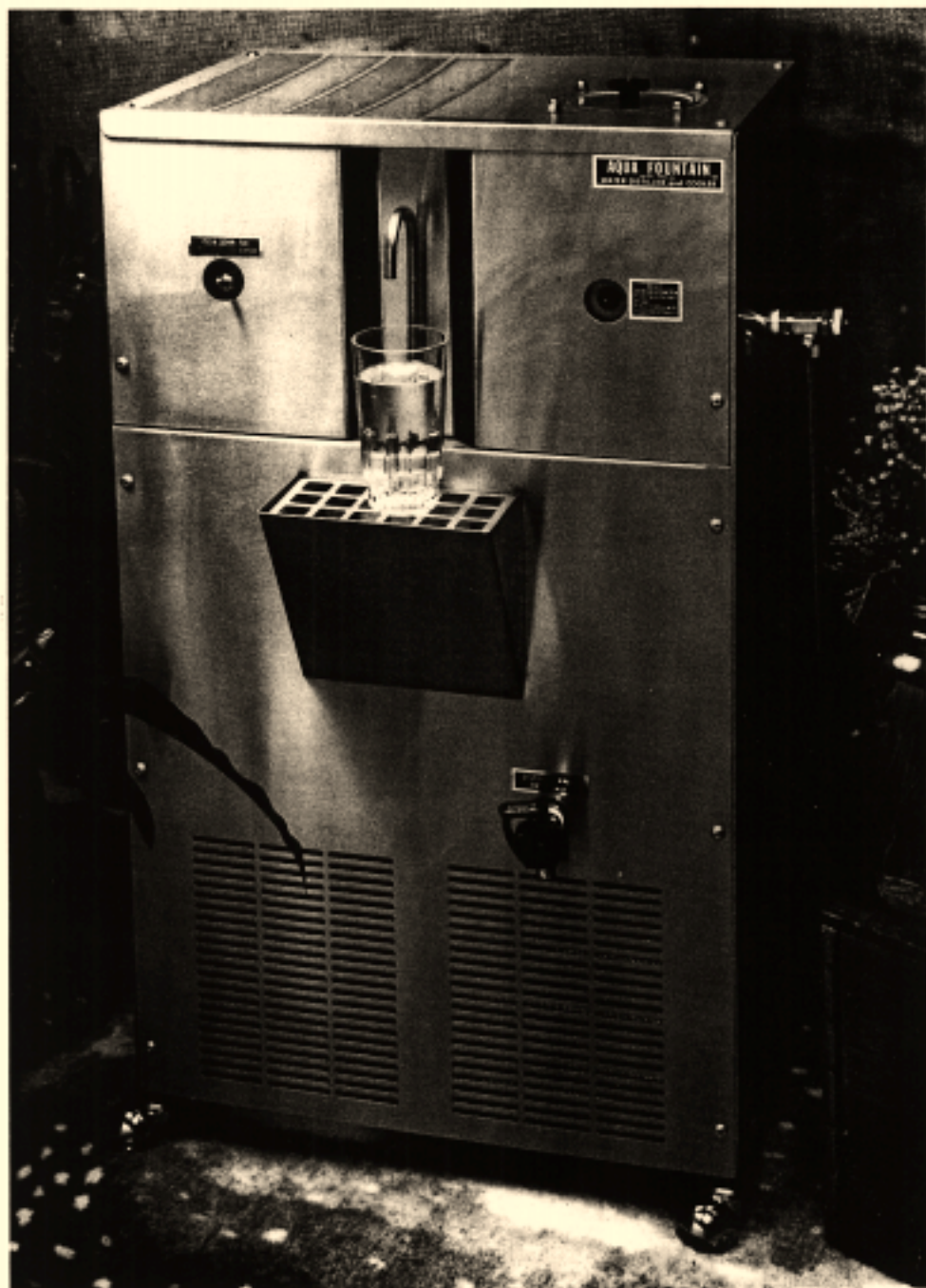


# Aqua Fountain<sup>TM</sup>

INSTRUCTIONS FOR ASSEMBLY AND OPERATION



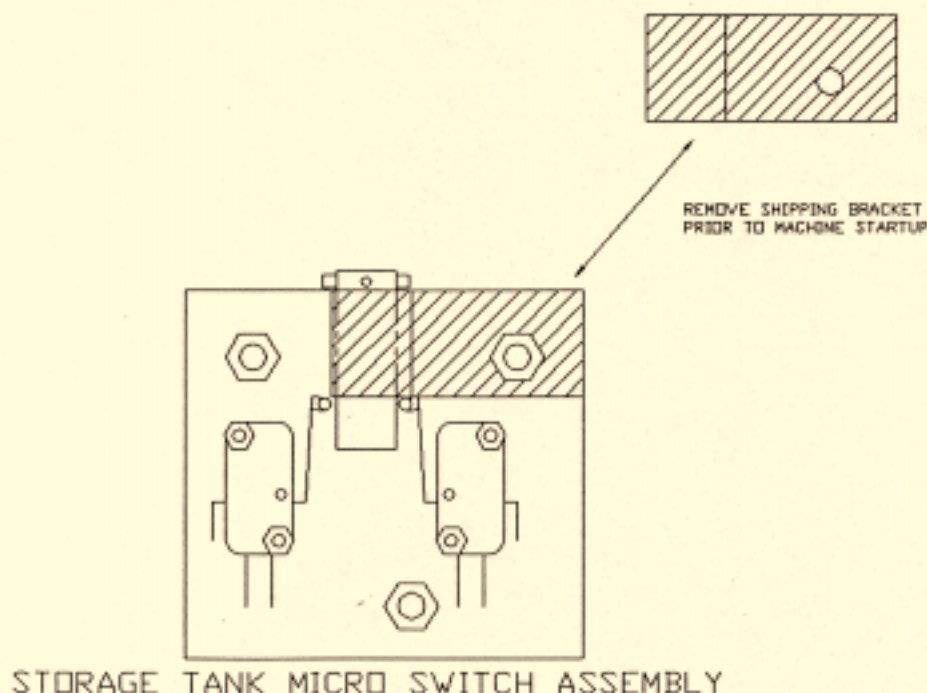
3725 Touzalin Ave. P.O. Box 83226 Lincoln, NE 68601 U.S.A.  
402/467-9000 Fax: 402/467-9393

## IMPORTANT NOTE: CAUTION

BEFORE STARTING THE MACHINE; YOU MUST REMOVE THE BRACKET SUPPLIED TO SECURE THE ACTUATING ARM OF THE DISTILLED WATER STORAGE TANK.

CHECK TO MAKE SURE THE FLOAT MECHANISM IS FREE MOVING WITHIN THE HIGH AND LOW LEVEL LIMITS AFTER BRACKET REMOVAL.

PLEASE USE CAUTION WHILE REMOVING THE RESTRAINING BRACKET SO THAT YOU DO NOT ACCIDENTALLY LOOSEN ANY INTERIOR WIRING!



**Model and serial number may be found  
at the left side of the base.**

**You should record both model and  
serial number below for future use.**

**Model:** \_\_\_\_\_

**Serial Number:** \_\_\_\_\_

- 1) PLEASE READ ALL INSTRUCTIONS THOROUGHLY BEFORE ASSEMBLING AND OPERATING YOUR NEW UNIT. KEEP THESE INSTRUCTIONS FOR FUTURE USE.
- 2) It is important to fill out and return the warranty card which is included with your instructions. This information is very helpful to us should you ever need parts or repairs for your machine.
- 3) Your distiller has been checked at the factory for leaks, proper working procedure, etc. Therefore, it may have a water ring.
- 4) The tank is heliarc welded and as you distill water, the mineral content may cling to the heliarc weld and will appear to be rust. This is T-304 Stainless Steel and what may appear to be rust is the mineral content clinging to the seams.
- 5) DO NOT subject your unit to misuse or abuse. Proper cleaning is very important and instructions are included as a part of this booklet.
- 6) When some people start drinking distilled water, they seem to think it has a taste; usually, this is not taste but a lack of taste. The taste buds will become accustomed to this the same as they did to the water in your area.
- 7) PLEASE GIVE CLOSE ATTENTION TO THE FOLLOWING ELECTRICAL PRECAUTIONS:
  - a. Never immerse the unit in water or any other liquid.
  - b. Never operate an appliance with a damaged cord. Do not let the cord hang over a sharp edge, such as a counter top or table, or be exposed to hot surfaces.
  - c. Do not use an extension cord.
  - d. The unit should not be operated outdoors or be exposed to the natural elements (rain, snow, and so forth).
  - e. THIS ELECTRICAL APPLIANCE, LIKE ALL OTHERS, SHOULD BE GROUNDED!

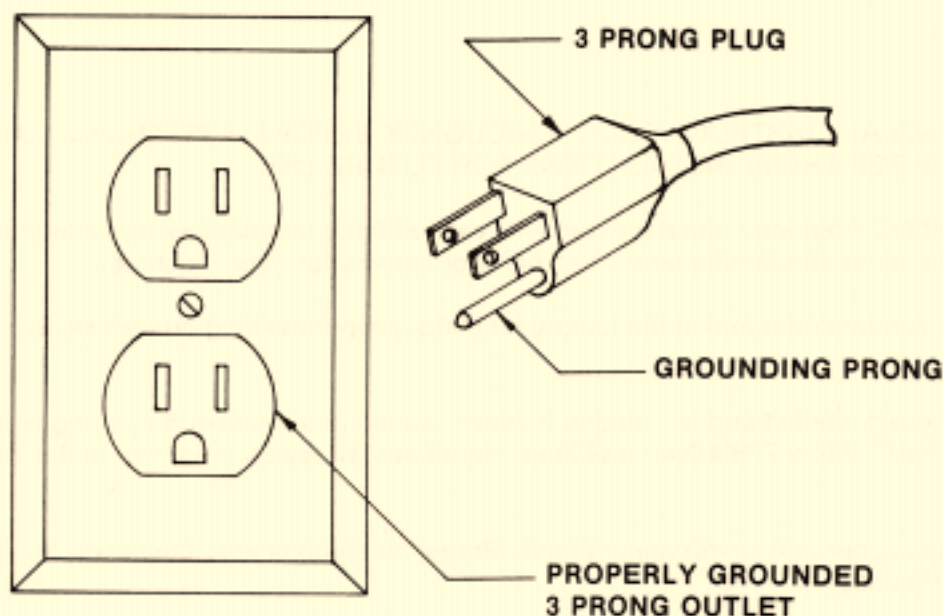
**THIS UNIT SHOULD NOT BE OPERATED AND FILLED DIRECTLY  
FROM THE KITCHEN SINK WITH THE UNIT CONNECTED TO AN  
ELECTRICAL SOURCE AS AN EXTRA PRECAUTIONARY MEASURE.**



## CONNECTING TO POWER SOURCE OUTLET

This unit must be grounded while in use to protect the operator from electrical shock. If power cord is worn or cut, or damaged in any way, have it replaced immediately.

Your unit has a plug that looks like the one illustrated below.



Plug power cord into 120V properly grounded type outlet protected by a 20-amp. time delay or circuit-saver fuse or circuit breaker.

**IF YOU ARE NOT SURE THAT YOUR OUTLET IS PROPERLY GROUNDED, HAVE IT CHECKED BY A QUALIFIED ELECTRICIAN.**

**WARNING: DO NOT PERMIT FINGERS TO TOUCH THE TERMINALS OF PLUG WHEN INSTALLING OR REMOVING THE PLUG TO OR FROM THE OUTLET.**

This unit is equipped with a 3-conductor cord and grounding type plug which has a grounding prong, approved by Underwriters Laboratories and the Canadian Standards Association. The ground conductor has a green lug and is attached to the base at one end and to the ground prong in the attachment plug at the other end.

This plug requires a mating, 3-conductor grounded type outlet as shown.

You will notice that the condensing coil, located inside the unit at the left (as you face the front of the unit), will have two small holes drilled in its top. These holes are not defects, rather they are provided to release certain volatile gases. Should some steam escape from these holes, this should be of no alarm to you.

Although we inspect these machines before leaving the factory, we are subject to human error. So, should there be any defects or missing parts to your machine, correspond directly with Pure Water, Inc., 3725 Touzalin, P.O. Box 83226, Lincoln, NE 68501.

FIGURE 1 FRONT VIEW OF AQUA FOUNTAIN AS SHIPPED



Figure 1

<u>Key No.</u>	<u>Part Name</u>
1	Boiling tank opening
2	Dispenser switch
3	Drinking water dispenser
4	Reset
5	Boiling tank drain nipple
6	Heating element switch
7	Momentary water switch
8	Holes for waste water catcher clips
9	Valve coupling for storage tank

FIGURE 2 REAR VIEW OF AQUA FOUNTAIN AS SHIPPED



Figure 2

<u>Key No.</u>	<u>Part Name</u>
10	Pump switch
11	Fan switch
12	Main circuit breaker
13	Boiling tank drain extension tube
14	Inline filter
15	Auxiliary water outlet
16	Temperature control knob
17	Power cord

FIGURE 3 CONTENTS SHIPPED IN WATER CATCHER



Figure 3

Key No.	Part Name
18	Boiling tank lid
19	Water catcher
20	Water catcher clips
21	Water catcher screen
22	Boiling tank drain valve
23	Saddle tapping valve kit
24	Drain valve tighten valve
25	Distilled water drain valve
26	1/4" EVA water line tubing

FIGURE 4 BOILING TANK DRAIN EXTENSION TUBE ASSEMBLY

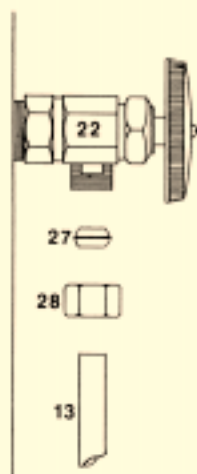


Figure 4

Key No.	Part Name
13	Boiling tank extension tube
22	Boiling tank drain valve
27	3/8" brass sleeve
28	3/8" compression nut

FIGURE 5 EVA WATER LINE TUBING TO SADDLE TAPPING VALVE

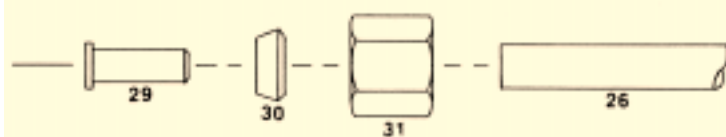


Figure 5

Key No.	Part Name
26	1/4" EVA water line tubing
29	Brass insert
30	Delrin sleeve
31	1/4" compression nut



FIGURE 6 FRONT VIEW OF AQUA FOUNTAIN ASSEMBLED



Figure 6

<u>Key No.</u>	<u>Part Name</u>
2	Dispenser switch
3	Drinking water dispenser
4	Reset
13	Boiling tank drain extension tube
18	Boiling tank lid
19	Water catcher
21	Water catcher screen
22	Boiling tank drain valve
25	Distilled water drain valve

FIGURE 7 REAR VIEW OF AQUA FOUNTAIN ASSEMBLED



Figure 7

<u>Key No.</u>	<u>Part Name</u>
10	Pump switch
11	Fan switch
12	Main circuit breaker
14	Inline filter
15	Auxiliary water outlet
16	Temperature control knob
26	1/4" EVA water line tubing



Figure 8

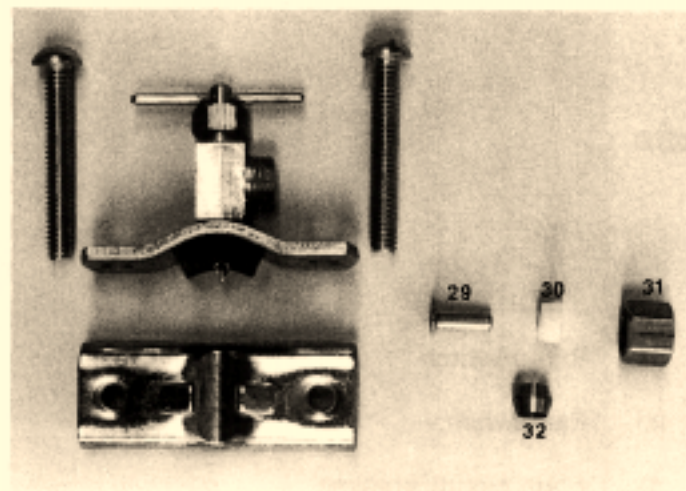


FIGURE 8 SADDLE TAPPING VALVE ASSEMBLY

Key

No.

Part Name

- 23 Saddle tapping valve kit
- 29 Brass insert
- 30 Delrin sleeve
- 31 Compression nut
- 32 Brass sleeve (for use on copper line)



FIGURE 9 INSTALLATION OF TUBING TO INLINE WATER STRAINER

**NOTE:** We have deleted the inline filter (Key No. 14) and replaced it with an inline strainer.

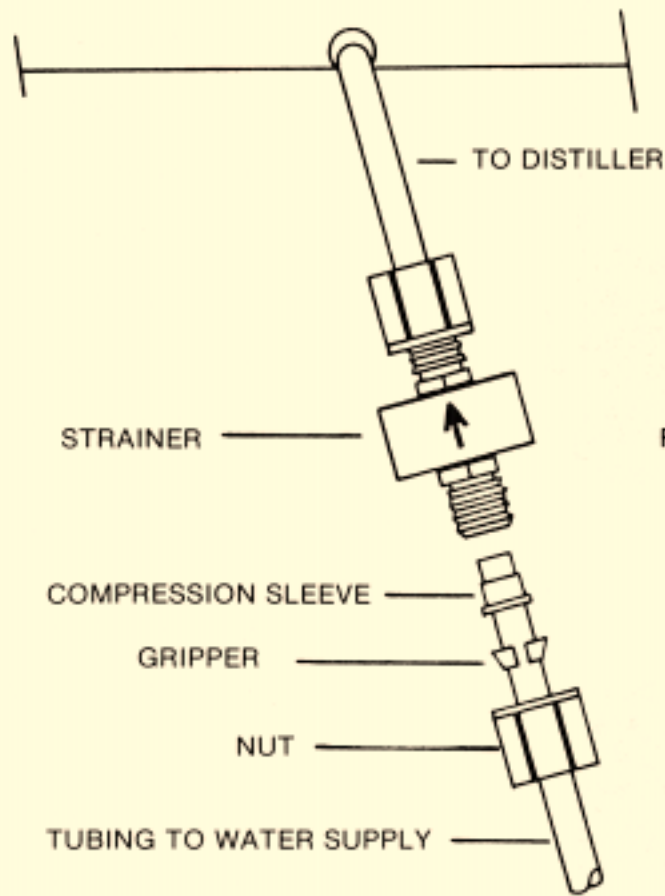


Figure 9

1. Remove plastic nut from strainer.
2. Insert the tubing through the small end of plastic nut and let it protrude about 1/4". The gripper and compression sleeve may come out of the nut while inserting the tubing. Install them back onto the tubing as per drawing.
3. Thread plastic nut with tubing on fitting of strainer about 1/4 turn, push the tubing up into the fitting and then tighten nut.
4. When it is necessary to remove the strainer from unit, be sure to replace it in the right direction for water flow. Check arrow on strainer.

FIGURE 10 FRONT VIEW WITH COVERS REMOVED

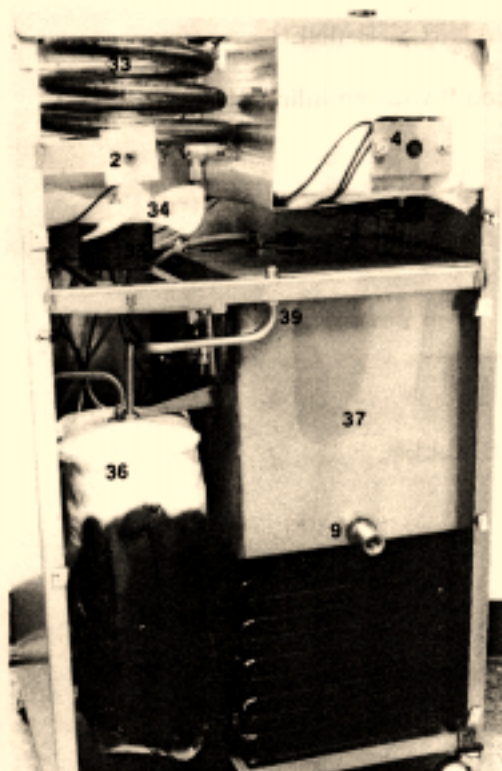


Figure 10

<u>Key</u> <u>No.</u>	<u>Part Name</u>
2	Dispenser switch
4	Reset
9	Valve coupling for storage tank
33	Aqua condensing coil
34	Fan blade
35	Motor assembly
36	Cooling tank
37	Storage tank
38	Micro switch
39	Cooling tank top tube

FIGURE 11 BACK VIEW WITH COVERS REMOVED

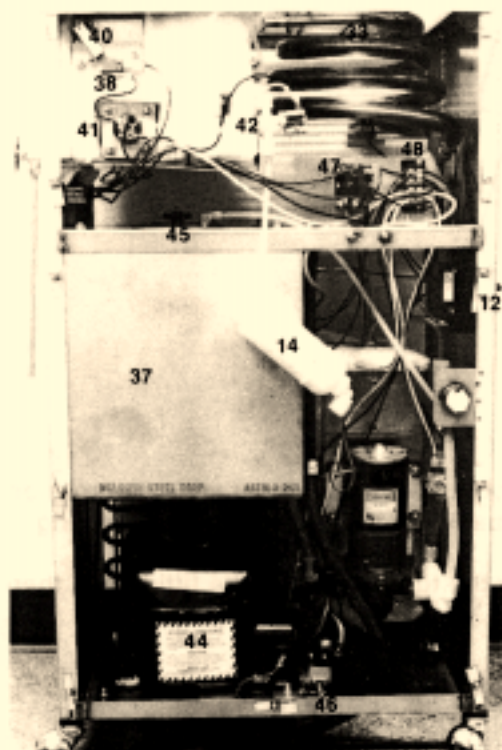


Figure 11

<u>Key</u> <u>No.</u>	<u>Part Name</u>
12	Main circuit breaker
14	Inline filter
33	Aqua condensing coil
37	Storage tank
38	Micro switch
40	Actuating arm
41	Heating element—1500 watts
42	Water solenoid
43	Demand pump
44	Compressor
45	Storage tank lid
46	Temperature control
47	Relay
48	Terminal block

The instructions given below and on the following pages should be followed closely in assembling and preparing your Aqua Fountain for Operation.

## ASSEMBLY

The design of this machine makes it unnecessary to remove either the front or back covers to put the machine into operation.

**CAUTION:** During assembly do not lay the machine on its side or back. This may damage the compressor.

1. Place the machine near an existing water line and a 20 amp, 120 volt electrical wall outlet. DO NOT PLUG MACHINE INTO ELECTRICAL OUTLET UNTIL INSTRUCTED TO DO SO LATER IN DIRECTIONS.
2. Remove contents of the waste water catcher (Figure 3-19). Attach waste water catcher to unit with the two clips located on the back side (Figure 3-20). Insert the waste water catcher screen (Figure 3-21) into waste water catcher.
3. Install distilled water drain valve (Figure 3-25). DO NOT REMOVE THE WHITE TEFLON THREAD TAPE AROUND THE VALVE THREADS. Insert the wood dowel (Figure 3-24) into valve outlet and screw the valve clockwise into the drain coupling (Figure 1-9) until tight.
4. Install the boiling tank drain valve (Figure 3-22). DO NOT REMOVE THE WHITE TEFLON THREAD TAPE. Turn valve on to boiling tank drain nipple on side of machine (Figure 1-5). Tighten valve with wrench.
5. Install boiling tank drain extension tube (Figure 2-13). Remove the compression nut and brass sleeve from the boiling tank drain valve outlet (Figure 4). Hold one end of the tube; slip the compression nut over the tube, small opening first, then slip on the brass sleeve. Push the tube firmly into the drain valve outlet and tighten the compression nut with a wrench (Figure 6-13).
6. Position the drinking water dispenser tube (Figure 1-3) by removing the tape and rotating the tube to a straight forward position. Tighten the compression nut with a wrench. See complete assembly (Figure 6-3).
7. Install the 1/4" EVA tubing to in-line water filter (Figure 9).
8. Connect saddle tapping valve to home cold water supply. DO NOT USE THE HOT WATER LINE. See instructions on saddle tapping valve kit (Figure 8) for assembly. **NOTE:** If you have a soft water unit in your home, you can use the cold water line from the water softening unit.
9. Connect EVA tubing water line to the saddle tapping valve (Figure 5). **NOTE:** Make sure the boiling tank drain valve is closed before proceeding.
10. Turn the existing water supply ON and open the saddle tapping valve completely. **NOTE:** Check for leaks at connections. Should any occur, retighten connections.



## OPERATION OF AQUA FOUNTAIN

1. Turn main switch, heating element switch, fan switch and pump switch to the OFF position.
2. The temperature control has been preset at the factory. **DO NOT** move the screw controlling the temperature control.
3. Plug the power cord into a 120 volt, single phase, 20 amp, electrical wall outlet.
4. Turn the main switch to the ON position.
5. Fill the boiling tank with water by pressing the momentary water switch until water is just above the heating element. Leave the boiling tank lid OFF.
6. Turn the heating element switch to the ON position. The boiling tank will stop filling when the water level is approximately 1-1/2" above the heating element.
7. To check the operation of the automatic filling system: Hold a container under the boiling tank drain valve, open the drain valve SLOWLY, and as the water level lowers to approximately 1" above the heating element - the unit should again allow water to refill the boiling tank.

**CAUTION:** If water level drops below the heating element at any time, and the boiling tank does not refill automatically, the unit should be shut OFF and your Distributor or Pure Water, Inc. should be notified.

8. Install the boiling tank lid. You may note by loosening the black knob on top and then tipping the lid, the bar at the bottom slip under the opening in the top of the unit. Center the lid over the opening and tighten the knob.
9. Turn the fan switch to the ON position. **DO NOT TURN THE PUMP SWITCH TO THE ON POSITION AT THIS TIME.**
10. All distillers shipped from Pure Water, Inc. have been tested to ensure proper functions when you receive them. Sometimes small amounts of water remain in the pump. To prevent freezing, the pump has been protected with a few ounces of nontoxic antifreeze. Flush the pump before you use the water from the distiller.
11. To flush the pump: Operate the distiller for at least four hours. **DO NOT WITHDRAW WATER DURING THIS TIME.**
12. Remove the plug from the auxiliary outlet at the rear of the unit.
13. Turn the pump switch ON and pump out approximately one gallon of water, and then turn the pump OFF. Install the plug back into the auxiliary outlet.

**CAUTION:** Water will come out quite forcefully. Hold a pail close to the auxiliary faucet.

**NOTE:** Steam sterilization: This unit has been run several times at the factory in order to test its operation, parts and assembly. However, the user is encouraged to run the unit through steam sterilization cycle prior to distilling water for usage. For steam sterilization cycle, it is advisable to do at this time.

14. Turn the main switch, heating element switch, fan switch and pump switch to the OFF position.
15. Remove the boiling tank lid, drain all water from the boiling tank. Leave the boiling tank lid OFF.
16. Open the storage tank drain valve and drain all water from the storage tank. Leave the drain open and place a container under the opening. Although mostly steam is produced, some condensation may occur.
17. Turn the main power switch to the ON position.
18. Fill the boiling tank with water by pressing the momentary water switch until water is just above the heating element. Leave the boiling tank lid OFF.
19. Turn the heating element switch to the ON position. The boiling tank will stop filling when the water level is approximately 1-1/2" above the heating element.
20. Install the boiling tank lid and tighten the knob.
21. Make sure the fan switch is in the OFF position. By placing the fan switch in the OFF position, this will allow steam to pass through the condensing coil and sterilize the unit.
22. Allow the unit to run for 20 minutes after water has come to a full boil.
23. After the unit have run for 20 minutes, turn the fan switch to the ON position.
24. Close the storage tank drain valve.
25. Your unit is now ready for normal use. **DO NOT TURN THE PUMP SWITCH TO THE ON POSITION AT THIS TIME!**
26. Run the distiller for at least six hours. The unit is shipped with the cooling tank empty, therefore, NO water may be drawn from it until there is a sufficient reserve in the storage tank.
27. Turn the pump switch to the ON position and hold down dispenser switch until water comes out of the drinking water dispenser. **NOTE: This water will not be chilled.**
28. When the cooling tank has been filled and water comes out of the drinking water dispenser, you may then turn the compressor switch, located on the side of the unit, to the ON position. Allow the compressor to cool for one hour.

**NOTE: The Aqua Fountain is fully automatic. Once the storage tank of the unit has filled, it will automatically shut the distiller portion of the unit OFF until approximately 1 to 1-1/2 gallons of distilled water has been drawn from the unit. At this time, the unit will restart and run until the distilled water has been replaced.**



29. If any problems occur during the operation of your Aqua Fountain, please read all instructions for Operations of Your Aqua Fountain. If the unit still does not function properly, turn to the Troubleshooting Section of this owners manual. If the unit still does not function properly, consult your Distributor or Pure Water, Inc.

**NOTE:** To prevent a concentration of chemicals, pollutants and other materials from building up in the bottom of the boiling tank, drain the boiling tank after approximately every third distillation cycle or at least once a week and refill with water. See cleaning instructions.

## CLEANING INSTRUCTIONS

PROPER CLEANING IS IMPORTANT. Improper cleaning may shorten the life of the unit and particularly that of the heating element. We recommend draining the boiling tank of your unit after approximately every third distillation cycle. This will prevent a concentration of chemicals, pollutants and other materials from building up in the boiling tank.

Your unit should be cleaned whenever there is noticeable amount of mineral build up around the outside of the heating element. The frequency of cleaning will vary from one area to another, depending upon the mineral content in that area and how much water has been distilled.

For cleaning, we suggest that you use either a solution of our industrial grade cleaner, Lumen™ or a cleaner of your choice. **DO NOT USE ABRASIVE CLEANER OR STEEL WOOL CLEANING PADS.**

Use the following procedures for cleaning:

1. Turn the heating element and fan switches OFF. Remove the boiling tank lid.
2. Drain the boiling tank.
3. Rinse the boiling tank by pressing the momentary water switch.
4. Close the drain valve and fill the boiling tank half full of water by pressing the momentary water switch.
5. Add cleaner. When Lumen or another commercial clean is used, follow the directions on the package. (The amount of cleaner you use may need to be increased depending on the kind of minerals deposits in your boiling tank.)
6. Mix well.
7. Fill the boiling tank with water to the bottom of the level gauge by pressing the momentary water switch. **CAUTION: Filling water above the bottom of the level gauge may allow undistilled water or cleaner to flow into the condensing coil and out into the user's storage tank. DO NOT OVERFILL!**
8. Let solution stand overnight or until the mineral content softens. **UNDER NO CIRCUMSTANCES SHOULD THE CLEANING SOLUTION BE HEATED AND RUN THROUGH A STEAM STERILIZATION OR DISTILLATION CYCLE.**
9. The next morning, drain and rinse the boiling tank thoroughly.
10. Be sure to refill the boiling tank with water to above the heating element before beginning to distill water again.



11. Turn the heating element and fan switches to the ON position.
12. Install the boiling tank lid and tighten knob.

## **TROUBLESHOOTING**

1. Reset may have popped. If the unit is hot, allow to cool. Cooling may have be hastened by draining the boiling tank and refilling with cold water until the heating element is covered. Using the eraser end of a pencil, push firmly again the reset button. If you hear a click, the unit has been reset. If you do not hear a click, allow the unit to cool for 15 minutes more and push the reset button again. If no click is hear, the problem may not be the reset.
2. Should the above fail, check to make sure you have power to the electrical wall outlet. A good check for this is to take an appliance or lamp you know works and plug it into the wall outlet.
3. If the storage tank is full, unit will not come ON until approximately one to two gallons of distilled water are drawn from the unit.
4. Common causes of machine failure are:
  - a. Unit jarred when nearly full.
  - b. Power failure.
  - c. Power cord pulled from wall outlet.
  - d. Main switch OFF.
  - e. Heating element switch OFF.
  - f. Reset popped.

**NOTE:** If any of the above occurs, drain several gallons of water from the storage tank to check your unit.

**CAUTION: SHOULD IT EVER BE NECESSARY FOR YOU TO INSTALL A PART, ALWAYS DISCONNECT THE UNIT THE ELECTRICAL WALL OUTLET.**

### **COMPRESSOR IS NOISY WHEN OPERATING:**

This may be due to a slight oil blockage and should diminish with operation.

### **WATER IS NOT COLD:**

Contact service center.

### **NO WATER:**

If pump is running (makes clearly audible sound), cooling tank is not full of water. Continue to hold dispenser switch ON until water flows from dispenser outlet tube.

2. If pump does not operate, but a click can be heard when dispenser switch is pressed, the cooling tank may be frozen. Unplug the unit and allow time to thaw. (Due to insulation, thawing time could be from 2-4 hours.)
3. If water still does not flow, consult your Distributor.

**DANGER: ALWAYS DISCONNECT THE UNIT FROM THE ELECTRICAL OUTLET BEFORE INSTALLING PARTS.**

### **INSTALLING THE AUXILIARY FAUCET**

The Aqua Fountain is designed to allow you to run room temperature distilled water to another faucet.

You will need the following parts to install the faucet:

Faucet w/ fittings                      P/N 95301K (6" faucet) or 95305K (10" faucet)

Tubing                                      P/N 9577; 3/8" (need to specify length needed)

Elbow Connector                      P/N 9614; 3/8"T x 3/8"S (optional)

1. Wrap the threads of the sink faucet with Teflon tape. When wrapping the threads, wrap two complete turns clockwise with the threads facing you. The Teflon tape is used to keep the fittings from leaking.
2. Turn the pump switch to the OFF position.
3. Install the faucet on the sink. Thread the female connector onto the faucet and slip the 3/8" tubing all the way into the female connector. Tighten the nut snugly. Remove the plug from the auxiliary water outlet and install the other end of the 3/8" tubing (or the #9614 elbow for a 90° angle) into the bulkhead fitting onto the Aqua Fountain.
4. Be sure to run the Aqua Fountain according to the instructions and be certain there is at least 2 gallons of water in the storage tank before drawing water through the faucet.
5. Turn the pump switch to the ON position.
6. To clean the 3/8" tubing of any foreign matter, draw about one gallon of water through the faucet.

## HOW TO ORDER REPAIR PARTS

When ordering repair parts, always give the following information: Part number, Part name, Model number, Serial number.

<u>KEY NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>
2	7214	Dispenser (momentary) switch
4	7039	Reset
6	7228	Heating element switch
7	7227	Momentary water switch
10	7052	Pump switch (same as fan switch)
11	7052	Fan switch
12	7225	Main circuit breaker
14	19006	Replacement inline filter
17	5511	Power cord
18	409	Boiling tank lid
19	5502	Water catcher
21	5020	Water catcher screen
22	9508	Boiling tank drain valve
23	9514	Saddle tapping valve kit
25	9505	Distilled Water drain valve (Tomlinson valve)
26		¼" EVA water line tubing
33		Aqua Fountain condensing coil w/fittings
34	7010	Fan blade
35	5509	Motor assembly
38	7201	Micro switch
40	609	Actuating arm
41	7025	Heating element 1500 watt
42	7222	Water solenoid
43	5517	Aqua Fountain demand pump
44	5504	Compressor assembly with cooling tank
46	5515	Temperature control assembly
47	7203	Relay
48	7212	Terminal block

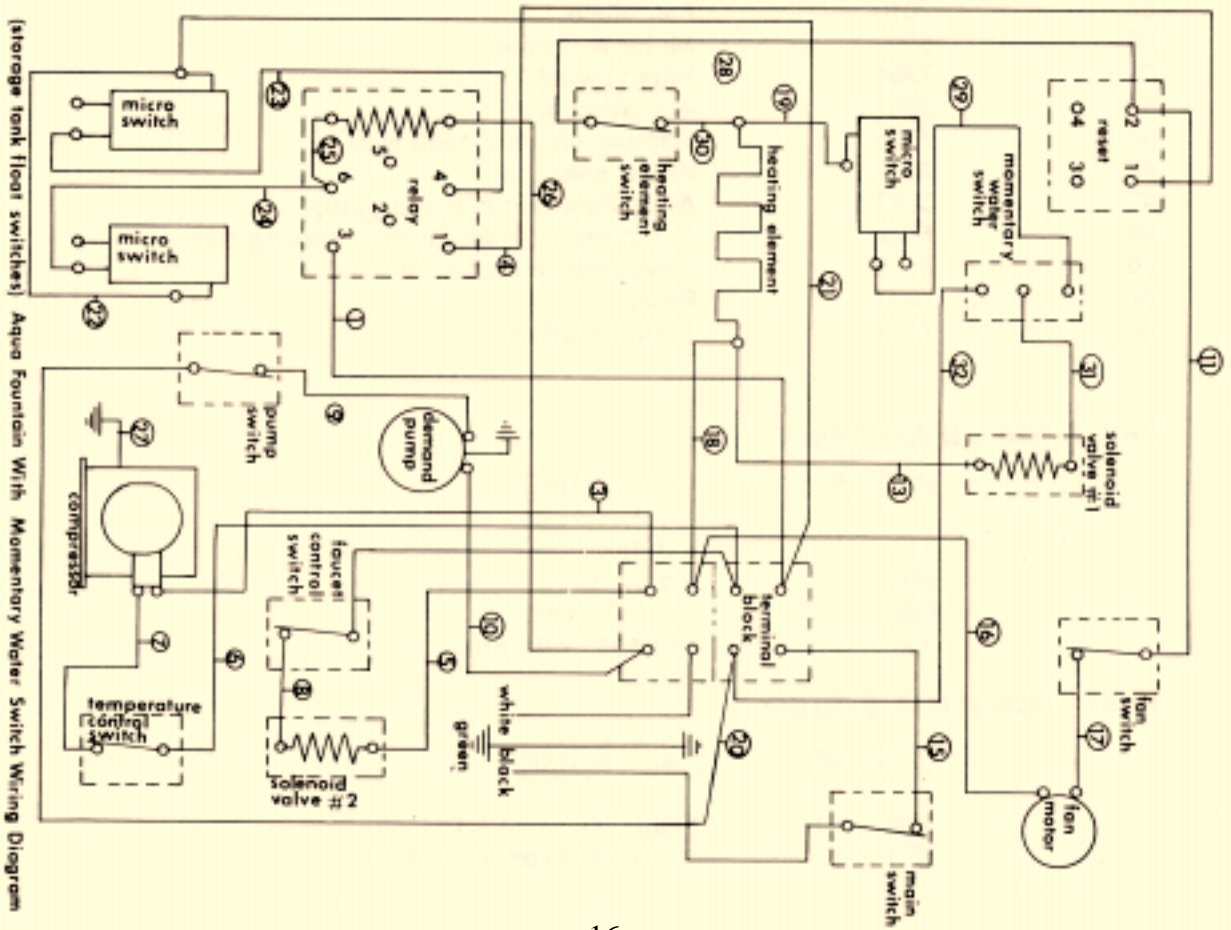
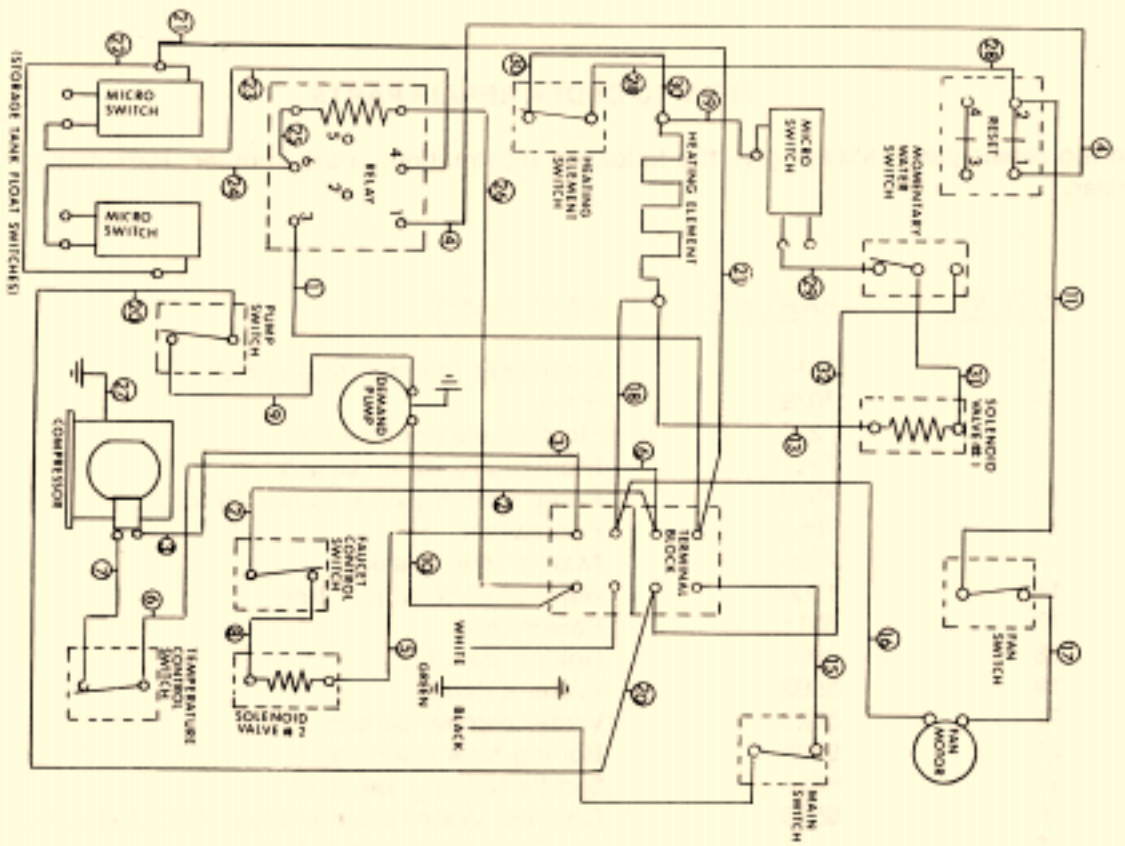
### PARTS FOR LID ASSEMBLY

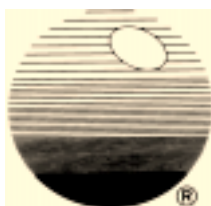
<u>PART NO.</u>	<u>PART NAME</u>
519	Lid disc
8001	Lid knob
6622	Lid "O" ring
402	Crossbar with stud

### PARTS FOR FLOAT SYSTEM

<u>PART NO.</u>	<u>PART NAME</u>
604	Float "O" ring kit
404	Short float rod assembly







Printed in USA/3-81/Copyright 1981 Part No. 6560-1