Model and serial number may be found at the left-hand 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. Unplug the unit from the electrical source before putting on or removing parts, and before cleaning.
   c. 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.
   d. Do not use an extension cord.
   e. The unit should not be operated outdoors or be exposed to the natural elements (rain, snow or so forth).
   f. THIS ELECTRICAL APPLIANCE, LIKE ALL OTHERS, SHOULD BE GROUNDED!

LIKE ALL OTHER ELECTRICAL APPLIANCES, 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, 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 Underwriter's Laboratories and the Canadian Standards Association. The ground conductor has a green plug 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 CONTENTS OF 5 OR 10 GALLON STORAGE TANK

<table>
<thead>
<tr>
<th>Key No.</th>
<th>Part Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MS-10 faucet (10 gallon storage tank only)</td>
</tr>
<tr>
<td>2</td>
<td>Casters</td>
</tr>
<tr>
<td>3</td>
<td>Screws (two each)</td>
</tr>
<tr>
<td>4</td>
<td>Storage tank lid assembly</td>
</tr>
<tr>
<td>5</td>
<td>Vent plug assembly</td>
</tr>
<tr>
<td>43</td>
<td>Nut</td>
</tr>
<tr>
<td>44</td>
<td>Gasket</td>
</tr>
<tr>
<td>48</td>
<td>MS-5 faucet (5 gallon storage tank only)</td>
</tr>
<tr>
<td>49</td>
<td>S.S. Filter body (not shown)</td>
</tr>
<tr>
<td>50</td>
<td>S.S. Screen (not shown)</td>
</tr>
<tr>
<td>51</td>
<td>Filter cap (not shown)</td>
</tr>
</tbody>
</table>

Figure 1

FIGURE 2 CONTENTS OF TOP UNIT AND PARTS

<table>
<thead>
<tr>
<th>Key No.</th>
<th>Part Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Drain valve extension tube</td>
</tr>
<tr>
<td>7</td>
<td>Inlet gasket</td>
</tr>
<tr>
<td>8</td>
<td>Transfer sleeve</td>
</tr>
<tr>
<td>9</td>
<td>¾” plastic nut (3 each)</td>
</tr>
<tr>
<td>10</td>
<td>Strainer</td>
</tr>
<tr>
<td>11</td>
<td>Boiling tank lid assembly</td>
</tr>
<tr>
<td>12</td>
<td>¼” OD water line tubing</td>
</tr>
<tr>
<td>13</td>
<td>Saddle tapping valve kit</td>
</tr>
<tr>
<td>45</td>
<td>Stainless steel washer</td>
</tr>
</tbody>
</table>

Figure 2
Key
No. Part Name
1 MS-10 faucet
43 Hex nut
44 Gasket
48 MS-5 faucet

Figure 3

FIGURE 4 INSTALLATION OF TRANSFER SLEEVE

Key
No. Part Name
3 Screw
7 Inlet gasket
8 Transfer sleeve
40 Condensing coil extension tube
45 Stainless steel washer

Figure 4
FIGURE 5 AQUA-D STILL ASSEMBLED

Figure 5

FIGURE 6 AQUA-D STILL BACK VIEW UNASSEMBLED

Figure 6

Key
No.  Part Name

1  MS-10 faucet (10 gallon storage tank only)
2  Caster
4  Storage tank lid assembly
6  Drain valve extension tube
7  Inlet gasket
8  Transfer sleeve
11 Boiling tank lid assembly
14 Fan switch
15 Reset
17 R-17 drain valve
25 Timer assembly
42 Main switch (Timer-Off-Auto)
45 Stainless steel washer
46 Momentary water switch
47 Heating element switch
48 MS-5 faucet (5 gallon storage tank only)

Key
No.  Part Name

9  ¼" plastic nut
18 Elbow ¼" compression x ½" NPT
19 Water inlet tube
20 Solenoid water valve
21 Power cord
22 Electrical cover box
23 Switch cover box
24 8" cord assembly
Key No. Part Name
18 Elbow $\frac{1}{4}''$ compression x $\frac{5}{8}''$ NPT
19 Water inlet tube
20 Solenoid water valve
21 Power cord
22 Electrical cover box
26 28'' cord assembly

Key No. Part Name
6 Boiling tank drain tube
17 R-17 drain valve
27 Brass compression ring
28 Compression nut
NOTE:
Place and insert strainer inline at any convenient outlet or head end.

10. Strainer

9. 1/4" Plastic nut

19. Water inlet tube
20. Solenoid water valve

WARNING: Depressurize unit before removing strainer. Strainers are provided with ferrule markings on strainer. Strainers are to be installed according to installation instructions. Cull water in the water line. Cut water pressure off before any work in the water line. This strainer can be installed from line and reverse flush, line and service conditions. Remove strainer and wash strainer between cleanings. Whirl, depend-

CLEANING: A periodic cleaning of all strainers is recommended.
Figure 10

Key No. Part Name
9  \( \frac{1}{4} \)" plastic compression nut
12  \( \frac{3}{4} \)" OD water line tubing

Figure 10-A

Key No. Part Name
9  \( \frac{1}{4} \)" plastic compression nut
12  \( \frac{3}{4} \)" OD water line tubing
49  Compression sleeve
50  Gripper
Figure 11 SADDLE TAPPING VALVE KIT

<table>
<thead>
<tr>
<th>Key</th>
<th>No.</th>
<th>Part Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Saddle tapping valve</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Brass insert</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Delrin sleeve</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>(\frac{1}{4})&quot; compression nut</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>(\frac{1}{4})&quot; brass sleeve (for use on copper line)</td>
<td></td>
</tr>
</tbody>
</table>
FIGURE 12 AQUA-D STILL VIEW OF UNIT FRONT COVER REMOVED

<table>
<thead>
<tr>
<th>Key No.</th>
<th>Part Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Boiling tank lid assembly</td>
</tr>
<tr>
<td>14</td>
<td>Fan switch</td>
</tr>
<tr>
<td>15</td>
<td>Reset</td>
</tr>
<tr>
<td>25</td>
<td>Timer assembly</td>
</tr>
<tr>
<td>37</td>
<td>Aqua condensing coil</td>
</tr>
<tr>
<td>38</td>
<td>Fan blade</td>
</tr>
<tr>
<td>39</td>
<td>Motor assembly</td>
</tr>
<tr>
<td>40</td>
<td>Condensing coil extension tube</td>
</tr>
<tr>
<td>41</td>
<td>S.S. reset retainer plate</td>
</tr>
<tr>
<td>42</td>
<td>Main switch (Timer-Off-Auto)</td>
</tr>
</tbody>
</table>

Figure 12

FIGURE 13 AQUA-D STILL VIEW OF UNIT BACK COVER REMOVED

<table>
<thead>
<tr>
<th>Key No.</th>
<th>Part Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Elbow 3/4&quot; compression x 3/4&quot; NPT</td>
</tr>
<tr>
<td>20</td>
<td>Solenoid water valve</td>
</tr>
<tr>
<td>21</td>
<td>Power cord</td>
</tr>
<tr>
<td>22</td>
<td>Electrical cover box</td>
</tr>
<tr>
<td>24</td>
<td>8&quot; cord assembly</td>
</tr>
<tr>
<td>26</td>
<td>28&quot; cord assembly</td>
</tr>
<tr>
<td>33</td>
<td>Actuating arm</td>
</tr>
<tr>
<td>34</td>
<td>Micro switch</td>
</tr>
<tr>
<td>35</td>
<td>Heating element 1500 watts</td>
</tr>
<tr>
<td>36</td>
<td>Relay</td>
</tr>
<tr>
<td>37</td>
<td>Aqua condensing coil</td>
</tr>
<tr>
<td>38</td>
<td>Fan blade</td>
</tr>
<tr>
<td>39</td>
<td>Motor assembly</td>
</tr>
<tr>
<td>46</td>
<td>Momentary water switch</td>
</tr>
<tr>
<td>47</td>
<td>Heating element switch</td>
</tr>
</tbody>
</table>

Figure 13
FIGURE 14 AQUA-D CLOSE UP VIEW OF TOP UNIT BACK COVER REMOVED

FIGURE 15 AQUA-D CLOSE UP VIEW OF STORAGE TANK COVER BOXES REMOVED
THE INSTRUCTIONS WHICH ARE GIVEN BELOW AND ON THE FOLLOWING PAGES SHOULD BE FOLLOWED CLOSELY IN ASSEMBLING AND PREPARING THE UNIT FOR OPERATION.

ASSEMBLY

The Aqua D will be shipped in two (2) separate boxes. One box contains the top “Purifier Portion” of the unit. The other box contains the “Storage Tank and Stand”. When unpacking the boxes, save everything until the unit is in operation. NOTE: Save the boxes in case your purifier should require repair at the factory.

ASSEMBLING THE UNIT - Begin by unpacking the “Storage Tank and Stand”.

1. 5- or 10-gallon Storage Tank - In addition to the “Storage Tank and Stand” you will find the following parts packed in the parts bag (Fig. 1).
   - 4 Casters
   - 1 Storage tank drain faucet
   - 2 Screws
   - 1 Nut
   - 1 Gasket
   - 1 S.S. filter body
   - 1 Filter Cap

2. Install the 4 casters (Fig. 1-2). Lay the tank and stand on its side. Push the metal stem of the casters into the plastic inserts at the bottom of each leg.

3. Install storage tank drain faucet (Fig. 1-1). Turn unit back in upright position. Install the drain faucet using the following procedure (Fig. 3):
   a. Place gasket on threaded section of the faucet.
   b. Insert the threaded section through the hole in the bottom front of the tank.
   c. Reaching through the access hole, while holding the faucet in position with other hand, install the nut.
   d. To tighten the nut, offset the faucet a few degrees counterclockwise; finger tighten the nut on the inside of the tank; then, while holding the nut, turn the faucet clockwise to tighten.
   CAUTION: GRASP THE BODY OF THE FAUCET TO TIGHTEN, NOT THE SIGHT GAUGE.

NOTE: For sanitation reasons the inside of the storage tank must be cleaned before assembling for steam cycle. Please use two tablespoons baking soda with a half tank of tap (or purified) water.

4. It is a requirement of safety codes that when two assemblies are electrically interconnected, they must be mechanically joined to prevent them from accidentally separating. In the parts bag you will find two self-tapping screws (Fig. 1-9). These are to be screwed into the small holes in the legs of the stand (Fig. 4-3). The holes are located 7/16 inch from the top of the leg, on the inside corners of two diagonally opposite legs. It is recommended that the screws be started before placing the purifier on the stand to avoid having to work in cramped quarters. The screws can then be backed out.

NOTE: DO NOT OMIT THESE SCREWS OR MACHINE WILL NOT BE IN COMPLIANCE WITH SAFETY CODES.
5. Unpack the top portion of the Agua D. You will find the following parts packed in the parts bag (Fig. 2):

<table>
<thead>
<tr>
<th>Drain valve extension tube</th>
<th>Strainer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Inlet gasket</td>
<td>1 1/4&quot; OD water line tubing</td>
</tr>
<tr>
<td>1 Transfer tube</td>
<td>1 Saddle tapping valve kit</td>
</tr>
<tr>
<td>3 1/4&quot; Plastic nut</td>
<td>2 3/8&quot; Compression nut</td>
</tr>
<tr>
<td>1 Stainless steel washer</td>
<td>2 3/8&quot; Compression sleeve</td>
</tr>
</tbody>
</table>

6. INSTALLATION OF TOP PORTION OF PURIFIER TO STORAGE TANK (Fig. 5).

The Storage Tank comes with a filter body and filter lid.

a. Install purifier top unit on storage tank stand. The purifier has one short round leg at each corner (Fig. 4). These round legs are to be inserted into the square tube legs at each corner of the stand. Put back legs in first.
b. Insert the filter body into large hole in tank.
c. Insert the transfer tube through the small end of compression nut. Insert the compression sleeve onto transfer tube, see diagram to show which direction the brass sleeve is facing.
d. While holding transfer tube against the threaded fitting, slide compression nut and compression sleeve up to threaded fitting and start compression nut turning right (clockwise), tighten compression nut.

NOTE: 1. You must hold the threaded fitting with a wrench to keep the fitting from turning while tightening compression nut.
2. Do not let the transfer tube slip down from threaded fitting while you're tightening compression nut.
3. After you have crimped the compression sleeve it will be necessary to remove complete assembly and proceed with step f & g.
f. If you use the charcoal filter packet at this time, follow the instructions provided with packet.
g. Slip the stainless steel washer and inlet gasket (4-7, 4-45) about half way onto the transfer tube (Fig. 4-6).
h. Install the transfer sleeve assembly back onto the threaded fitting and push the stainless steel washer and inlet gasket down to the filter lid.

REPLACEMENT OF THE CHARCOAL FILTER PACKET WILL VARY FROM ONE AREA TO ANOTHER, DEPENDING UPON HOW MUCH WATER HAS BEEN PURIFIED AND THE DEGREE OF CONTAMINATION.

a. Remove the filter cup from storage tank.
b. Remove charcoal filter packet from filter and discard, wash and rinse the filter body thoroughly.
c. Drain the storage tank and wash and rinse thoroughly.
d. Install new filter packet and insert in tank, following packet instructions, and insert filter cup into tank.
7. INSTALLATION OF ELECTRICAL COVER BOX TO STORAGE TANK (Fig. 7022).
   a. During shipment of the top unit, the electrical cover box is attached to the bottom of the unit with a hex nut (Fig. 6-22). Remove this electrical cover box from the top unit.
   b. Remove the 3 cap nuts from the mounting studs. DO NOT REMOVE THE THIN NUTS THAT HOLD THE SWITCH COVER BOX ON THE STORAGE TANK (Fig. 6-23).
   c. Plug the two connectors together, one from the electrical box (Fig. 13-26) and the one protruding from the switch cover box (Fig. 13-24).
   d. Place the electrical cover box over the mounting studs with the connector inside of the electrical cover box and replace the cap nuts and tighten.

8. The Boiling Tank Lid (Fig. 5-11) will not be used until instructed to do later in directions. You may note that by loosening the black knob on top and then tipping the lid, the bar at the bottom slips under the opening in the top of the unit. Center the lid over the opening and tighten the black knob. This lid will need to be removed each time the unit is manually filled with water.

9. INSTALLATION OF BOILING TANK DRAIN EXTENSION TUBE (Fig. 8-6). The boiling tank drain extension tube will allow the user to drain the boiling tank more conveniently. To assemble, remove the compression nut and brass sleeve from the boiling tank drain valve; take the end of the tube with the 90° bend and do the following:
   a. Slip the compression nut (Fig. 8-28) over the tube, small opening first; then, slip on the brass sleeve (Fig. 8-27).
   b. Push the tube into the opening of the drain valve (Fig. 8-17).
   c. Next, thread the nut onto the boiling tank drain valve and tighten.

NOTE:
1. If unit is to be used as a MANUAL FILL, stop here and go to OPERATION MANUAL FILL.
2. If the unit is to be used as a DIRECT WATERLINE HOOKUP, proceed with the following directions for assembling.

10. INSTALLATION OF WATERLINE TO UNIT FOR DIRECT WATERLINE HOOKUP.
   a. Install water line and strainer as per Figure 9.
   b. Installation of ¼" plastic nuts on fittings, insert the waterline tubing through the small end of plastic nut and let it protrude about ½" (Fig. 10).

NOTE:
The compression nut comes in 3 parts; the nut, compression sleeve, and gripper. If the compression sleeve or gripper comes out while installing the water line, insert them back into the nut or on tubing. See Fig 10-A. The gripper has a split in it so it will compress into the tubing when you tighten the nut.

   c. Install plastic nut on fitting about ¼ turn. Push the water line as far as it will go and then tighten nut.
   d. Connect saddle tapping valve to home cold water supply, DO NOT USE HOT WATER LINE. See instructions on saddle tapping valve kit (Fig. 11) for saddle tapping valve assembly.

NOTE:
If you have a soft water unit in your home, you can use the cold water line from the water softener unit.

NOTE:
MAKE SURE THE BOILING TANK DRAIN VALVE IS CLOSED BEFORE PROCEEDING.

   e. Turn existing water supply on and open saddle tapping valve completely.
NOTE:
Any leaks occur in step e, tighten all connections. Some areas where leaks may occur are: where the saddle tapping valve attaches to existing water line; where waterline tubing attaches to strainer and/or where waterline tubing attaches to saddle tapping valve.

11. OPERATION — DIRECT WATERLINE HOOKUP WITH MOMENTARY WATER SWITCH.

   a. Turn Main switch, Heating element switch and Fan switch to the "OFF" position. Plug the unit into electrical outlet.
   b. 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".
   c. Turn fan switch, heating element switch to the "ON" position and main switch to the "AUTO" position. The boiling tank will stop filling when the water level is approximately 1½" above the heating element.

CAUTION:
DO NOT OPERATE THIS UNIT WITH THE MAIN SWITCH IN THE TIMER POSITION WHEN USED AS A DIRECT WATERLINE HOOKUP. WHEN THE UNIT IS IN THE TIMER POSITION IT TURNS "OFF" THE SOLENOID WATER VALVE.

d. To check operation of the automatic filling system hold a container under the drain valve, open the drain valve SLOWLY, and as the water level lowers to approximately 1" over the heating element - the unit should again allow water to refill the boiling tank.

CAUTION:
DO NOT OPERATE UNIT IF THE WATER GOES BELOW THE HEATING ELEMENT.

12. 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 a steam sterilization cycle. It is advisable to do it at this time.

   NOTE:
When steam sterilizing the storage tank remove the stainless steel filter body from the tank. This will allow steam to enter the tank and not cause a back pressure in the filter body. Place the filter cap on tank during the steam sterilizing cycle.

   a. Turn main switch, heating element switch and fan switch to the "OFF" position.
   b. Drain water from boiling tank.
   c. Refill boiling tank with water by pressing momentary water switch until water is just above heating element.
   d. Turn heating element switch to the "ON" position.
   e. Turn main switch to the "AUTO" position.
   f. DO NOT turn the fan switch "ON" at this time! By placing the fan switch in the "OFF" position, this will allow steam to pass through the condensing coil and sterilize the unit.
   g. Install boiling tank lid and tighten lid knob.
   h. Open storage tank drain faucet and place a container under opening. Although mostly steam is produced, some condensation will occur. After initial sterilization, this cycle may be run periodically without storage tank drain faucet open.
   i. Allow machine to run 20 minutes after water has come to full boil. Turn "OFF" all switches. Close the storage tank drain faucet.
   j. After steam sterilizing install stainless steel filter body and cap into storage tank.
13. DISTILLATION — DIRECT WATERLINE HOOKUP WITH MOMENTARY WATER SWITCH.

a. Turn main switch, heating element switch and fan switch to the "OFF" position. Have the unit plugged into electrical outlet.
b. Fill the boiling tank with water by pressing the momentary water switch until water is just above the heating element.
c. Turn fan switch, heating element switch to "ON" position and main switch to "AUTO" position. The boiling tank will stop filling when the water level is approximately 1½" above the heating element. Install boiling tank lid and tighten lid knob.

NOTE:
The unit will run until the storage tank is full and automatically turn "OFF". When approximately two to three gallons of water are drawn from storage tank it automatically turns "ON".

NOTE:
To help 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 instruction.

OPERATION — MANUAL FILL

1. 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 a steam sterilization cycle prior to distilling water for usage. For steam sterilization cycle, it is advisable to do it at this time.

a. Turn main switch, heating element switch, timer switch and fan switch to the "OFF" position.
b. Fill the boiling tank manually with water until the water just touches the water level gauge. (Water level gauge is located just to the rear, inside of tank opening.)
c. Install boiling tank lid and tighten lid knob.
d. Plug the unit into electrical outlet and turn heating element switch to the "ON" position.
e. Turn main switch to the "TIMER" position.

CAUTION:
DO NOT OPERATE THIS UNIT WITH THE MAIN SWITCH IN THE "AUTO" POSITION WHEN USED AS A MANUAL FILL UNIT. WHEN THE UNIT IS IN THE "AUTO" POSITION THE "TIMER" DOES NOT RUN.

f. Turn the timer knob left, counterclockwise, to the timer stop.
g. DO NOT turn the fan switch "ON" at this time! By placing the fan switch in the "OFF position, this will allow steam to pass through the condensing coil and sterilize the unit.
h. Open storage tank drain faucet and place a container under opening. Although mostly steam is produced, some condensation will occur. After initial sterilization this cycle may be run periodically without storage tank drain faucet open.
i. Allow machine to run 20 minutes after water has come to full boil. Turn all switches to the "OFF" position. Drain and rinse boiling tank.

CAUTION:
FILLING WATER ABOVE BOTTOM OF LEVEL GAUGE MAY ALLOW UNDISTILLED WATER TO FLOW INTO THE CONDENSING COIL AND INTO STORAGE TANK.

2. DISTILLATION — MANUAL FILL

a. Remove boiling tank lid, fill manually with water until the water touches the water level gauge.
CAUTION:
FILLING WATER ABOVE BOTTOM OF LEVEL GAUGE MAY ALLOW UNDISTILLED WATER TO FLOW INTO THE CONDENSING COIL AND INTO STORAGE TANK.

b. Install boiling tank lid and tighten lid knob.
c. Plug unit into electrical outlet and turn heating element switch to the "ON" position.
d. Turn main switch to the "TIMER" position.

CAUTION:
DO NOT OPERATE THIS UNIT WITH THE MAIN SWITCH IN THE "AUTO" POSITION WHEN USED AS A MANUAL FILL UNIT. WHEN THE UNIT IS IN THE "AUTO" POSITION THE "TIMER" DOES NOT RUN.
e. Turn the fan switch to the "ON" position.
f. Turn the timer knob left, counterclockwise, to the timer stop.

NOTE:
1. The boiling tank MUST BE refilled before each distillation cycle.
2. The storage tank has a set of switches on it. It operates the relay that is inside of the top portion of the distiller. When unit is used as a Manual Fill unit, the relay will stay energized until the storage tank is full and then automatically turns "OFF". Even if the timer hasn't turned "OFF", you will not be able to distill water again until you have drawn about 2 to 3 gallons of water from the storage tank. This will actuate the float switches on the storage tank and allow you to distill water again.
3. To help 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.

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 help prevent a concentration of chemicals, pollutants and other materials from building up in the bottom of the boiling tank.

Your unit should be cleaned whenever there is a 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 called Lumen No. 2 (which may be purchased through your distributor), or a cleaner of your choice. DO NOT USE AN ABRASIVE CLEANER OR STEEL WOOL CLEANING PADS.

USE THE FOLLOWING PROCEDURE FOR CLEANING:

NOTE:
1. If unit is to be used as a MANUAL FILL, stop here and go to CLEANING MANUAL FILL.
2. If the unit is to be used as a DIRECT WATERLINE HOOKUP, proceed with the following directions for cleaning.

DIRECT WATERLINE HOOKUP WITH MOMENTARY WATER SWITCH:

a. Turn "OFF" heating element and fan switch, remove boiling tank lid.
b. Drain the boiling tank.
c. Rinse the boiling tank by pressing the momentary water switch.
d. Close drain valve and fill boiling tank half full of water by pressing momentary water switch.
e. Add Cleaner. When Lumen No. 2 or another commercial cleaner is used follow the directions on the
package. (The amount of cleaner may need to be increased depending upon the kind and type of mineral
deposits in your boiling tank.)
f. Mix well.
g. Fill boiling tank with water to the bottom of the water level gauge by pressing the momentary water
switch.
h. Let solution stand overnight or until the mineral content softens. UNDER NO CIRCUMSTANCES
SHOULD THE CLEANING SOLUTIONS BE HEATED AND RUN THROUGH A STEAM STERILIZATION
OR DISTILLATION CYCLE!
i. The next morning drain and rinse the boiling tank thoroughly.
j. Be sure to refill the boiling tank with water to above the heating element before beginning to distill
water again.
k. Turn "ON" heating element and fan switch.
l. Install boiling tank lid.

CLEANING WHEN USED AS MANUAL FILL UNIT.

a. Make sure the unit is turned "OFF" and DISCONNECTED FROM ELECTRICAL SOURCE.
b. Remove boiling tank lid.
c. Drain the boiling tank and rinse.
d. Close drain valve and fill boiling tank manually half full of water.
e. Add cleaner. When Lumen No. 2 or another commercial cleaner is used, follow the directions on the
package. (The amount of cleaner may need to be increased depending upon the kind and type of mineral
deposits in your boiling tank.)
f. Mix well.
g. Fill boiling tank manually with water to bottom of water level gauge.
h. Let solution stand overnight or until the mineral content softens. UNDER NO CIRCUMSTANCES
SHOULD THE CLEANING SOLUTIONS BE HEATED AND RUN THROUGH A STEAM STERILIZATION
OR DISTILLATION CYCLE!
i. The next morning drain and rinse the boiling tank thoroughly.
j. Be sure to refill the boiling tank with water to water level gauge before beginning to distill water again.
k. Install Boiling tank lid.
l. Plug unit into electrical outlet.
m. Turn switches "ON" for distilling.

TROUBLE SHOOTING

a. Reset may have “kicked” off. If unit is hot, allow to cool. Cooling may be hastened by draining the boiling
tank and refilling with cold water to water level gauge. Using the eraser end of a pencil, push firmly
against the reset button. If you hear a “click” the machine has been reset. If you do not hear a “click” allow
the unit to cool for 15 minutes more and push reset button again. If no “click” is heard the problem is not
with the reset.
b. 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.
c. If the storage tank is full, unit will not come on until approximately one to two gallons of distilled water are
drawn from storage tank.
d. Common causes of machine failure:
   1. Unit “jarred” when nearly full.
   2. Power failure.
   3. Power cord pulled from wall outlet.
   4. Main switch “OFF”.
   5. Reset kicked “OFF”.

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

CAUTION: SHOULD IT EVER BE NECESSARY FOR YOU TO INSTALL PARTS, ALWAYS DISCONNECT THE UNIT FROM THE ELECTRICAL WALL OUTLET!

When ordering repair parts, always give the following information: Part Number, Part Name, Model Number and Serial Number. ALWAYS ORDER BY PART NUMBER — NOT BY KEY NUMBER.

<table>
<thead>
<tr>
<th>KEY NO.</th>
<th>PART NO.</th>
<th>PART NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9575</td>
<td>MS-10 faucet</td>
</tr>
<tr>
<td>2</td>
<td>9560</td>
<td>Caster</td>
</tr>
<tr>
<td>5</td>
<td>411</td>
<td>Vent plug assembly</td>
</tr>
<tr>
<td>6</td>
<td>518</td>
<td>Drain valve extension tube</td>
</tr>
<tr>
<td>7</td>
<td>6509</td>
<td>Inlet gasket</td>
</tr>
<tr>
<td>8</td>
<td>4032</td>
<td>Transfer sleeve</td>
</tr>
<tr>
<td>9</td>
<td>9550</td>
<td>3/8&quot; plastic compression nut</td>
</tr>
<tr>
<td>10</td>
<td>9560</td>
<td>Strainer</td>
</tr>
<tr>
<td>12</td>
<td>9526</td>
<td>3/8&quot; OD water line tubing</td>
</tr>
<tr>
<td>13</td>
<td>9514</td>
<td>Saddle tapping valve kit</td>
</tr>
<tr>
<td>14</td>
<td>7052</td>
<td>Fan switch</td>
</tr>
<tr>
<td>15</td>
<td>7039</td>
<td>Reset</td>
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<tr>
<td>17</td>
<td>9508</td>
<td>R-17 drain valve</td>
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<td>19</td>
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<td>Water inlet tube</td>
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<td>21</td>
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<td>4023</td>
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<td>24</td>
<td>4516</td>
<td>8&quot; cord assembly</td>
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<td>25</td>
<td>4531</td>
<td>Timer assembly</td>
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<td>26</td>
<td>4515</td>
<td>28&quot; cord assembly</td>
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<td>33</td>
<td>609</td>
<td>Actuating arm with set screws</td>
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<tr>
<td>34</td>
<td>7201</td>
<td>Micro switch</td>
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<tr>
<td>35</td>
<td>7025</td>
<td>Heating element 1500 watts</td>
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<tr>
<td>36</td>
<td>7203</td>
<td>Relay</td>
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<tr>
<td>37</td>
<td>606</td>
<td>Aqua condensing coil with fittings</td>
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<td>38</td>
<td>7010</td>
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<td>39</td>
<td>4512</td>
<td>Motor assembly</td>
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<td>4509</td>
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<td>42</td>
<td>7053</td>
<td>Main switch (timer-off-outo)</td>
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<td>45</td>
<td>9099</td>
<td>Stainless steel washer</td>
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<td>7227</td>
<td>Momentary water switch</td>
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<td>51</td>
<td>519</td>
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<tr>
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<tr>
<td>6022</td>
<td></td>
<td>Lid &quot;O&quot; ring</td>
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<td>402</td>
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<td>Lid crossbar with stud</td>
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<td>604</td>
<td></td>
<td>Float &quot;O&quot; ring kit</td>
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<tr>
<td>614</td>
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<td>Short float rod assembly (storage tank) with &quot;O&quot; ring kit</td>
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<tr>
<td>615</td>
<td></td>
<td>Long float rod assembly (boiling tank) with &quot;O&quot; ring kit</td>
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<tr>
<td>68</td>
<td></td>
<td>Bib washer (for boiling tank drain valve)</td>
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