Dental Purity

DP-360™

Water Distiller

Owners Manual



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CONGRATULATIONS

The Dental Purity DP-360 distiller is built of the finest materials and constructed with care and attention to detail. If you need assistance, please contact us at 402-467-9300. I urge you to take the time to read and understand the Safety Information section below.

We are sure you will have many years of use from your Dental Purity DP-360 distiller.

We appreciate your support of a U.S. manufacturer.

The Team at Pure & Secure

IMPORTANT SAFETY INFORMATION

- Make sure the lid is removed from the jug before insterting into holding area, and before unit is turned on.
- Operate indoors only and allow at least 3 inches of clearance around unit when in operation.
- Always unplug the power before assembling, repairing or doing any work on the distiller.
- NEVER immerse the distiller in water or any other liquid.
- NEVER operate the distiller with a damaged cord or allow the cord to become exposed to hot surfaces.
- NEVER let children play with the distiller.
- Make sure your electrical outlet is properly grounded. If in doubt, contact a qualified electrician.
- NEVER remove the boiling chamber from the unit until it has cooled down.
- The physiological effect of the operation of this appliance, beneficial or otherwise has not been investigated by UL.
- Do NOT use with an extension cord.

USE AND CARE OF THE DISTILLED WATER CONTAINER

To ensure proper performance and a lifetime of trouble-free service, please read the following information on general use and care of the distilled water container:

- Do not use on stove-top burner, under heating elements, in microwave or conventional ovens.
- Do not store hot liquids nor food in drinking water container.
- · Dishwasher-safe lid: Top rack only.

ELECTRICAL REQUIREMENTS

The Dental Purity DP-360 must be plugged directly into a fully grounded outlet.

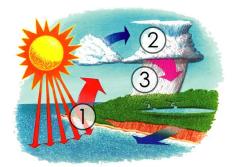
The Dental Purity DP-360 will use approximately 8 amps when operating, so isolate a 10 amp fuse or circuit breaker for the unit.

This unit operates on 110V, 60 cycles, or as otherwise specified on the back of the distiller.

HOW DISTILLATION AND YOUR DP-360 WORK

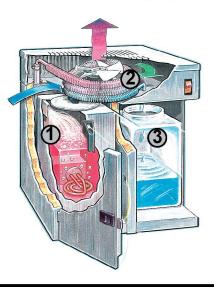
Nature has a way to produce pure water from contaminated sea water. When the sun rises in the morning, it starts to heat the surface of the ocean. The heat causes molecules or pure water to evaporate (1) from the surface of the ocean and rise to condense (2) in the form of clouds. When the conditions are right, the clouds cannot hold any moisture and water presipitates (3) and falls to earth as rain. The rain collects in rivers, lakes and reservoirs and is available for drinking.

NATURE'S DISTILLATION CYCLE...

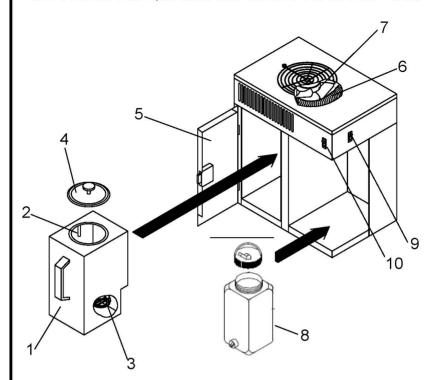


A distiller operates the same way. Water is placed into a boiling chamber where heat is applied. The water boils and water molecules (steam) evaporate (1). The steam enters the condenser where cool air causes the steam to condense (2) it presipitates (3) as droplets of pure water. This water is collected and is fresh distilled water - the purest kind.

THE PURE WAY...



GETTING ACQUAINTED WITH YOUR DP-360



COMPONENT IDENTIFICATION



Boiling Chamber (1). The manually-filled stainless steel boiling chamber holds approximately one gallon of water when filled to the proper level.



Water Level Indicator (2). A small rod which extends down into the boiling chamber. The boiling chamber should be filled to touch the bottom of this indicator. CAUTION: DO NOT OVERFILL.



Heating Element (3). The 750-watt heating element provides the heat to boil the water in the boiling chamber.



Lid (4). The lid is constructed of heavy-gauge stainless steel and has a special gasket and handle which tightens to seal when turned.



Door (5). The stainless steel door improves the look of the unit and serves an important safety role. DO NOT open the door until the unit has stopped distilling for a minimum of 30 minutes.



Condenser (6). A hollow, finned stainless steel tube where the steam from the boiling chamber is collected and cooled by the air from the fan. The steam is converted into high-purity drinking water. At the top portion of the condensing coil there are two small holes. These are two gas vents to allow volatile compounds to escape.



Fan (7). An electrical fan which works automatically to provide a flow of air across the outside of the condenser.



Distilled Water Container (8). This plastic container collects the distilled water. It is equipped with a pour-through lid for ease of use.



Main Power Switch (9). Turns the unit on or off.



Cycle Start Switch (10). Pressing this swich will start the 210 minute distillation cycle.

UNPACKING YOUR DP-360

Your Dental Purity DP-360 water purification system is shipped to you in a durable carton. Carefully remove the contents from the box.

The DP-360 carton contains:

- The DP-360 distiller.
- Plastic container and lid.
- Owners Manual and Warranty Card.
- Power Cord (Not included in 240 Volt machines).

If these are not present, please look for the Quality Assurance Inspection Slip and note the name of the inspector. Call us at 402-467-9300.

Note: Save the box and packing materials for future use in the unlikely event your DP-360 should require service work.

FIRST TIME START-UP

Starting the unit for the first time:

- 1. Open the door (5) and remove the boiling chamber (1) by pulling on the handle.
- 2. Remove the lid (4) by turning the black lid knob counterclockwise and moving the lid (4) side to side and lift out.
- 3. Fill the boiling chamber (1) with cold tap water until the water touches the bottom of the water level indicator (2). DO NOT overfill.
- 4. Replace the lid (4) on the boiling chamber (1). Turn the black lid knob clockwise and tighten firmly, ensuring a good seal.
- 5. Push the boiling chamber (1) into the left side of the distiller until it fits snug and the element prongs plug into the controller.
- 6. Close the door.

First Time Start-Up Continued...

- 7. Put the distilled water container in place.
- 8. Plug the power cord into the back of the machine and then into the electrical source.
- 9. Turn the power switch (9) to the ON position.
- 10. Press and release the "Start Cycle" Switch. (10)
- 11. Allow the unit to operate until it automatically shuts off (approximately 3.5 hours).
- 12. Dump the first batch of distilled water.
- 13. Replace the distilled water container (8) to the distiller.

NORMAL OPERATION

- Ensure that the boiling chamber is cool.
- 2. Open the door (5) and remove the boiling chamber (1) by pulling on the handle.
- 3. Loosen the black knob on the lid (4) and slide the lid from side to side and lift the lid out.
- 4. Swirl and empty out any water left in the boiling chamber (1) from the prior batch.
- 5. Fill the boiling chamber (1) with tap water until it touches the bottom of the water level indicator (2).
- 6. Place the lid (4) on the boiling chamber (1). Tighten the black lid knob firmly, ensuring a good seal. DO NOT overtighten.
- Push the boiling chamber (1) into the left side of the distiller until it fits snug and the element prongs plug into the controller. Close the door.
- 8. Be sure lid is removed from container. Put the distilled water container (8) in place.
- 9. Turn the power switch (9) to the ON position.
- 10. Press and release the "Start Cycle" Switch. (10)
- 11. Allow the unit to operate until it automatically shuts off. This will take approximately 3.5 hours and will produce approximately 3 liters of distilled water.

CAUTION: Never open the door during operation and never remove the boiling chamber while the unit is operating.

MAINTENANCE & CLEANING

With proper care on your part, your DP-360 will provide you with high-quality water for many trouble-free years.

The following recommendations are for typical water conditions. If you live in an area where the water quality is exceptionally poor, you may need to increase the frequency of our care.

Maintenance

Every Batch:

 Before each batch, swirl the residual water from the previous cycle, tip it out down the drain, and rinse out the boiling chamber (1).

Monthly, or every 30 gallons:

 Clean the inside of the boiling chamber (1) to remove any buildup of solid residues. (See Cleaning below).

Every 3 months:

 Clean the exterior with Stainless Steel Cleaner & Polish, stock #6606.

Cleaning

Cleaning the Exterior:

Use Stainless Steel Cleaner & Polish (stock #6606) and follow instructions.

Cleaning the Boiling Chamber:

Sometimes scale will build up inside the boiling chamber. This needs to be removed periodically to ensure good heating element life, and high-quality drinking water.

Note: If you rinse the boiling chamber every time you fill it, you will reduce the buildup of scale inside the boiling chamber, and will have to clean it less frequently.

To Clean the Boiling Chamber:

- 1. Turn the power switch to the OFF position.
- 2. If the unit has been operating, allow it to cool for 30 minutes from the end of the distillation cycle.
- 3. Carefully remove the boiling chamber from the unit. **CAUTION:** The boiling chamber can be hot and could cause a burn if the unit has not been allowed to cool.
- Remove the boiling chamber lid (4).
- 5. Drain any residual water inside the boiling chamber (1).
- 6. Fill the boiling chamber to the water level indicator (2).
- Add Lumen™ Cleaner (stock #6603) to the boiling chamber. Follow instructions on the label. Typical use is 2 Tablespoons of Lumen per 1 gallon of water. Allow to sit 4-6 hours or overnight. Rinse out before distilling again.

Note: DO NOT replace the boiling chamber back into the unit during the cleaning process. DO NOT allow the unit to operate with the Lumen Cleaner in the boiling chamber.

TROUBLESHOOTING

The Dental Purity DP-360 distiller is designed for years of dependable service. The following guide is presented to assist you in the event of any problems with your product.

SYMPTOM: Unit does not produce water...

Possible Cause NO POWER	Checkthat the power cord is plugged in and is pushed in completely to back of machinethat the power to your home/office is onthat the on/off switch (9) is turned on. Then press the "Start Cycle" switch (10)that there is water in the boiling chamber.
Possible Cause HEATING ELEMENT BURNED OUT	that the boiling chamber (1) is completely inserted into th back of the distiller. Check that there is power to your home/office that the power cord is plugged in and is pushed in completely to back of machine. that the power switch is turned on that the boiling chamber is pushed in completely, and the fan rotates when the unit is on, but the air is cool, or cold Then Replace the heating element (stock #716B -120 Volt and 716BV - 240 Volt).

SYMPTOM: There is steam around the unit...

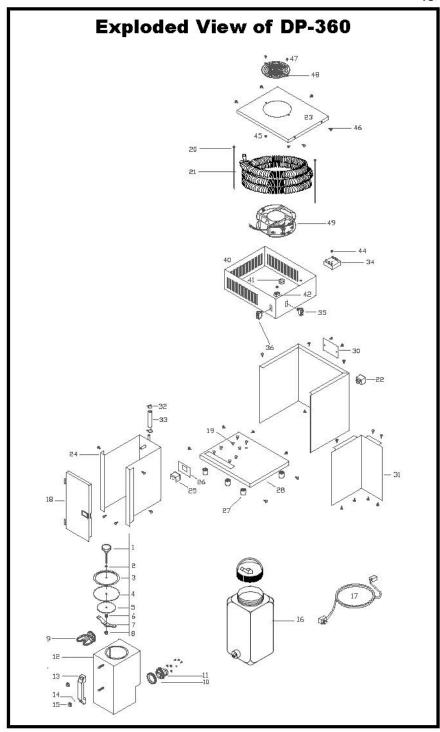
Possible Cause INSUFFICIENT VENTILATION OF THE UNIT	Check that the unit is not pushed hard against the wall. Keep a minimum of 1 inch clearance. if there are any items on the unit that may block the air flow. Remove any such items.
Possible Cause	Check
FAN MOTOR	if the fan is not turning and you have checked that there is power to the unit, and the timer switch is on, then it may be a failed fan motor. Replace the fan motor.

SYMPTOM: There is water around the unit...

Possible Cause	Check
IMPROPER POSITIONING	that the boiling tank lid is aligned with the boiling tank correctlythat the carbon filter is in proper position and water is flowing through itthat the drinking water container is correctly placed to catch the waterthat the heating element and gasket are tight.

INDIVIDUAL PARTS LIST

120V 240V Lid Knob w/ Stud Lid O-Ring Lid Disc S.S. Gasket, Boiling Tank Lid Washer, Gasket, Boiling Tank Lid Washer, Gasket, Boiling Tank Lid Washer, Gasket Retainer Spring, Tank Lid Crossbar, w/ Nut Nut, 1/4-20 Nylock Q6 Lid Assembly k Q7 Q7 Q7 Q7 Q7 Q7 Q7	
2 Lid O-Ring 3 Lid Disc S.S. 4 69 69 5 Gasket, Boiling Tank Lid 6 Spring, Tank Lid 7 Crossbar, W Nut 8 Nut, 1/4-20 Nylock 406 Lid Assembly K 9 9202A 9202AV 10 9205A Seal, Silicon with Screws 11 9203A 9205A 11 9203A Seal, Silicon with Screws (9-11) 716B T16BV (10-11) 718B 718BV Heating Element Kit-Otter St Heating Element/Controller Meating Element/Controller Meating Element/Controller Meating Element/Controller Meating Element/Controller St 12 Boiling Tank, Studded 13 9108 9108 14 9009 9009 Washer, 1/4*, Stainless Steel Nut, Acom, 1/4-20 15 9039 9039 15 9039 9039 16 45505DP 45505DP 16 45505DP 1 Gallon Jug	
3 4 69 69 Gasket, Boiling Tank Lid 5 Washer, Gasket Retainer 6 Spring, Tank Lid Crossbar, w/ Nut 7 Volume Nut, 1/4-20 Nylock 8 406 406 Lid Assembly k 9 9202A 9202AV Heating Element, 750V-Otte 10 9205A Seal, Silicon with Screws 11 9203A Controller, Element-Otter St (9-11) 718B 718BV Heating Element Kit-Otter St (10-11) 718B 718BV Heating Element Controller k 12 Boiling Tank, Studded Handle, Black Plastic 14 9009 9009 Washer, 1/4", Stainless Steel 15 9039 9039 Nut, Acom, 1/4"-20 15 9039 9039 Nut, Acom, 1/4"-20 (9-15) 709B 709BV Boiling Tank Assembly Kit 16 45505DP 45505DP 1 Gallon Jug 17 7276 NA Power Cord, IEC 18 713A	
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23 45014D 45014D Ton Cover	
24 45504D 45504D Boiling Tank Liner, Welded 25 9204A 9204A Element Adapter	
25 9204A 9204A Element Adapter 26 45024-02 45024-02 Clip, Adapter	
27 9218 9218 Appliance Feet, 7/8"	
28 45503C 45503C Base, Studded	
29 45008D 45008D Cladding	
30 45017B 45017B Back Cover Plate	
31 45009B 45009B Middle Divider	
32 9922 9922 Hose Clamp, Wire	
33 9541 9541 Silicone Tubing 34 715 715V Timer, 210 Minute	
35 642 642 On/Off Switch	
36 643 643 Start Switch	
40 45506E-02 45506E-02 Top Cabinet, Studded	
41 9220 9220 1* Bushing, Closed	
42 9111 9111 Terminal Block, 4-2-3	
43 45016 45016 Insulation (not shown)	
44 9070 9070 Nut, #10-24, Nylock	
45 9003 9003 Nut, #8-32, Nylock 46 9029 9029 Screw, #10 Sheet Metal	
47 9029 9029 Screw, #10 Sheet Wetal	
47 9023 Sciew, Fair 48 9342 9342 Guard, Fan	
49 667 667BV Fan, Box	



FOR THE RECORD

The model and serial number are found on the back panel. You should record both the model and serial number from the back of the machine for future reference.

Model_	DP-360				
Date of Purchase					
Serial N	Number				
Dealer Name and Phone Number					

ORDERING PARTS & SERVICING

Dental Purity recommends that you have your DP-360 serviced by the factory.

If you require parts or accessories at any time, please contact us at 402-467-9300.

To help you identify parts for your DP-360 please see the parts list included in this manual on page 14.