# **Ultima Classic**

# Operator's Manual







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# Important Safety Information

- If you are not sure that your electrical outlet is properly grounded or that the circuit protection is correct, have it checked by a qualified electrician.
- Operate indoors only.
- The area MUST be well ventilated.
- **WARNING:** Disconnect the distiller from the power supply before assembling, adjusting or servicing 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.
- DO NOT let children play with the distiller.
- DO NOT touch the top of the distiller when it is operating because it may be hot.
- Exercise care when removing the boiling tank and/or the boiling tank lid.
- Never remove boiling tank or lid when the distiller is operating.
- Extension cords are not preferred, but may be used if care is exercised in their use.
- If an extension cord is used, (a) the marked electrical rating of the extension cord should be at least as great as the electrical rating of the product; (b) as the product is of the grounded type, the extension cord should be a grounding type 3-wire cord; and (c) the longer cord should be arranged so that is will not drape over the countertop or tabletop where it can be pulled on by children or tripped over unintentionally; (d) the extension cord cannot be covered by carpet or rugs.
- The installation and use of this product must comply with all applicable state and local laws and regulations.
- **IMPORTANT:** This distiller is designed to be used only with Ultima Classic brand accessories and replacement components.

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# Introduction

Congratulations on purchasing the finest water distillation system on the market. With proper care and attention, the Pure Water Ultima Classic will give you many years of top performance and high-quality drinking water. Please read this manual thoroughly before installing and operating your Pure Water Ultima Classic.

# **Record Important Information**

The serial number is found on the back panel. You should record all of the information below for future reference.

Date of Purchase:						
Model:	Pure Water Ultima Classic					
Heating Element Wattage:						
Storage Tank Size:						
Serial Number:						
Purchased from:						

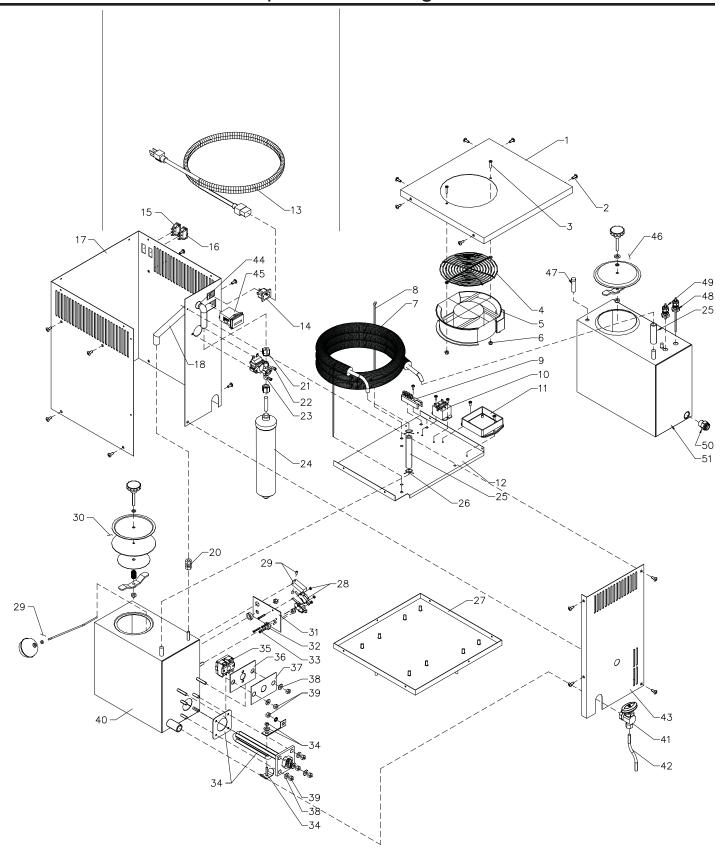
# Included With Your Distiller

In addition to your Pure Water Ultima Classic distiller, your box contains:

- Saddle tapping valve (#9514)
- 25 feet of 1/4" food-grade tubing (#9526-25R)
- Carbon Pre-filter (#21061)
- Drain extension tube (#611)
- (4) Wing Nuts
- (2) 1/4" Elbows
- Owners Manual
- Warranty Card
- Power Cord\*
  - \* power cord may not be included in some 240V units.



# Ultima Classic Distiller Exploded Drawing



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# Ultima Classic Distiller Parts List

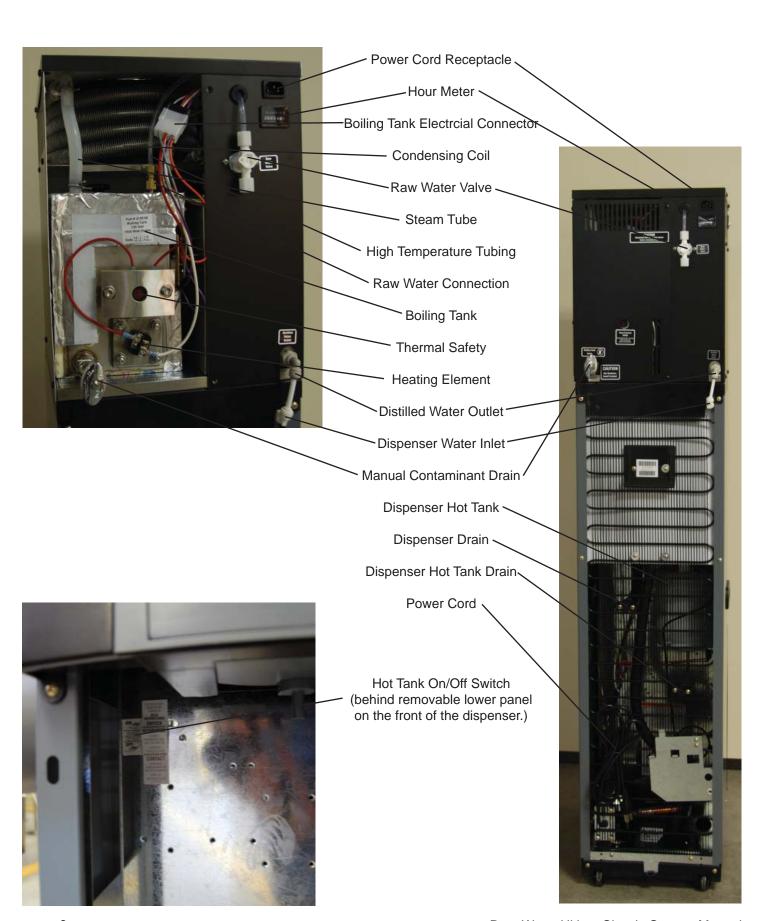
1 21005B 21005B 21005B 9029B 9029B SCREW, #10-16 X 172", SHTMTL. 3 9019 9019 9019 SCREW, #10-16 X 172", SHTMTL. 5 93442 9342 9342 9342 GUARD, FAN, 6", METAL 5 93443 9344B 9344B PAN, AXIAL, 170CFM, 110/220V 6 9003 9003 9003 NUT, #8-32, NYLOCK, HEX, S.S. 7 21020 21020 21020 21020 COIL, CONDENSING, UZ AQUANUI 8 7246 7246 7246 TE, CABLE, HIGH TEMP 14.7"BLK 9 9 19111 9111 9111 BLOCK, TERMINAL, 3 X 2 X 4 10 7206 7206 7206 7206V RELAY, FOWER, SPDT, 120/AC 15A 11 9106 9106 9106 RELAY, LIQUID LEVEL CONTROL, 120/240V 12 21503 21503 21503 TRAY, ELECTRICAL, 120V LUTIMA CLASSIC, SS 13 7276 7276 7276 CORD, POWER, IEC, 15 AMP 14 7275 7275 7275 7275 CONNECTOR, IEC FEMALE, SNAP-IN 15 7232 7232 7232 SWITCH, LIGHTED, RED, 16 7228 7228 7228 SWITCH, LIGHTED, RED, 17 21006B 21006B 21006B CLADDING, WRAPAROUND, ULTIMA CLASSIC 18 21069 21059 21059 TUBING, HIGH TEMPERATURE 1/4" 20 63419 63419 63419 63419 UNION, BRASS, 1/4" COMP, (USE DELRIN SLEEVES) 17 9550 9550 9550 NUT, COMP, IVORP, NUO BEZAL, 15A 21 19550 9550 9550 NUT, COMP, IVORP, NUO BEZAL, 15A 22 1061 21061 21061 21061 ELITER, VOC, ULTIMA CLASSIC 24 21061 21061 21061 21061 ELITER, VOC, ULTIMA CLASSIC 25 9541 9541 9541 9541 TUBING, 5/8" OD x 3/8" ID, 26 9921 9921 9921 P3019 P3019 SCREW, #63-28 X34", PHD, PLPS 24 21067 21067-02 21007A-02 21007A-02 PAN, BOTTOM, STUDDED, STAINLESS STEEL 28 664 654 654 MICROSWITCH KIT 29 21063 21063 21063 633V 1000 WATH FLATER KIT 34 6331 633 633 633V 1000 WATH FLATER KIT 34 6331 633 633V 1000 WATH FLATER KIT 34 7581 7580 7699 7069 7069 RESET, 66T, 220F(HBP-U) 35 7069 7069 7069 7069 RESET, 66T, 220F(HBP-U) 36 101 101 101 101 101 101 101 101 101 10	Item #	100V	120 V	240V	Description
2 9929B 9029B 9029B SCREW, #10-16 X 1/2", SHTMTL 3 9019 9019 9019 SCREW, #3-23 X3/4", PHD, PLPS 4 9342 9342 9342 9342 GUARD, FAN, 6", METAL 5 9344J 9344B 9344B FAN, AXIAL, 170CFM, 110/220V 6 9003 9003 9003 NUT, #8-32, X3/4", PHD, PLPS 7 21020 21020 21020 COL, CONDENSING, U2 AQUANUI 8 7 24020 21020 21020 COL, CONDENSING, U2 AQUANUI 10 7206 7206 7206 7206 TIE, CABLE, HIGH TEMP 14."FBLK 9 9 9111 9111 9111 BLOCK, TERMINAL, 3 X 2 X 4 10 7260 7206 7206 7206 RELAY, POWER, SPDT, 120VAC 15A 11 9106 9106 9106 RELAY, LIQUID LEVEL CONTROL 120/240V 12 21503 21503 21503 76 RELAY, PLOWER, SPDT, 120VAC 15A 13 7276 7276 7275 7275 CONNECTOR, IEC, FEMALE, SNAP-IN 15 7232 7232 7232 XWITCH, LIGHTED, RED, 16 7228 7228 ZWITCH, LIGHTED, RED, 17 21006B 21006B 21006B CLADDING, WRAPAROUND, ULTIMA CLASSIC 18 21059 21059 21059 TUBING, HIGH TEMPERATURE 1/4" 20 63419 63419 63419 UNION, BRASS, 1/4" COMP, (USE DELRIN SLEEVES) 10 63419 63419 63419 UNION, BRASS, 1/4" COMP, (USE DELRIN SLEEVES) 11 7071 7231 70106 XULVE, SOL, 1/4" COMP, NC, 1/20V 12 21007A-02 21007A-02 21007A-02 PAN, BOTTOM, STED, STAINLESS STEEL 16 9921 9921 9921 CLAMP, HOSE, WIRE SPRING, 5/8" D. 21 21063 21063 21063 1FLORA NO, BOTTOM, STAINLESS STEEL 22 9010 9010 9010 SCREW, #6-32 X 3/4", PHD, PLPS 23 7197 7231 70106 XULVE, SOL, 1/4" COMP, NC, 1/20V 24 21061 21061 21061 FILTER, VOC, ULTIMA CLASSIC 25 9641 9541 9541 9541 TUBING, 5/8" OD X 3/8" D. 26 9921 9921 9921 CLAMP, HOSE, WIRE SPRING, 5/8" D. 27 21007A-02 21007A-02 21007A-02 FAN, BOTTOM, STUDDED, STAINLESS STEEL 34 654 654 654 664 MICROSWITCH KIT 35 7069 7069 7069 7069 7069 PAN, BOTTOM, STUDDED, STAINLESS STEEL 36 510 510 510 510 PLATE, RETAINER PLATE 37 424A 424A 424A 424A 424A 424A 424A 424	1	21005B	21005B	21005B	PANEL, TOP, ULTIMA CLASSIC, BLACK
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10	8	7246	7246	7246	TIE, CABLE, HIGH TEMP 14.7"BLK
11	9	9111	9111	9111	BLOCK, TERMINAL, 3 X 2 X 4
12	10	7206	7206	7206V	RELAY, POWER, SPDT, 120VAC 15A
13	11	9106	9106	9106	RELAY, LIQUID LEVEL CONTROL 120/240V
14	12	21503	21503	21503	TRAY, ELECTRICAL,120V ULTIMA CLASSIC, SS
15		7276	7276		CORD, POWER, IEC, 15 AMP
16					
17					
18					
20					
21 9550 9550 9550 9550 NUT, COMP, 1/4", PLASTIC 22 9019 9019 9019 SCREW, #8-32 X 3/4", PHD, PLPS 23 7197 7231 70106 VALVE, SOL, 1/4" COMP, N/C, 120V 24 21061 21061 21061 FILTER, VOC, ULTIMA CLASSIC 25 9541 9541 9541 TUBING, 5/8" OD x 3/8" ID, 26 9921 9921 9921 CLAMP, HOSE, WIRE SPRING, 5/8" 27 21007A-02 21007A-02 PAN, BOTTOM, STUDDED, STAINLESS STEEL 28 654 654 654 MICROSWITCH KIT 29 21063 21063 21063 FLOAT AND ACTUATING ARM KIT 30 406 406 BOILING TANK LID KIT 34 633J 633 633V 1000 WATT HEATER KIT 34 738J 738 738V 1200 WATT HEATER KIT 35 7069 7069 7069 RESET, 66T, 220F(+8F/-0) 36 510 510 510 PLATE, RETAINER, RESET, PC 37 424A 424A 424A 424A ASSY., RESET RETAINER PLATE 38 9009 9009 WASHER, 1/4" X 5/8"OD, FLAT 39 9045 9045 9045 NUT, 1/4-20, HEX, S.S. 40 21501-02 21501-02 21501-02 TANK, STUDDED, BOILING ULT 2 41 9508 9508 9508 VALVE, DRAIN, BRASS STEM, 1/2" 42 611 611 611 TUBE, DRAIN EXTENSION 43 210025 21501-02 19-0227 METER, HOUR, 120V/240V 46 410A 410A 410A 410A HOA LID, STORAGE, 2 GALLON 50 21502-02 21502-02 17501-02 FROBE, ASSY, HIGH, ULTIMA CLASSIC, 4.25" 49 21021 21021 21021 PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8" 50 221-0308 221-0308 221-0308 CONN, SPEEDFIT, 1/4" X 3/8"M 51 21502-02 21502-02 17501-02 TANK, STUDDED, INT STORAGE, 2 GALLON 5 21036 21036 Carboard Box					·
22         9019         9019         SCREW, #8-32 X 3/4", PHD, PLPS           23         7197         7231         70106         VALVE, SOL, 1/4" COMP, NVC, 120V           24         21061         21061         21061         FILTER, VOC, ULTIMA CLASSIC           25         9541         9541         9541         TUBING, 5/8" OD x 3/8" ID,           26         9921         9921         SCAMP, HOSE, WIRE SPRING, 5/8"           27         21007A-02         21007A-02         PAN, BOTTOM, STUDDED, STAINLESS STEEL           28         654         654         654           654         654         654         MICROSWITCH KIT           29         21063         21063         21063         FLOAT AND ACTUATING ARM KIT           30         406         406         BOILING TANK LID KIT           34         633J         633         633V         1000 WATT HEATER KIT           34         738J         738         738V         1200 WATT HEATER KIT           35         7069         7069         7069         RESET, 66T, 220F(+8F/-0)           36         510         510         510         PLATE, RETAINER, RESET, PC           37         424A         424A         424A         ASS					,
23         7197         7231         70106         VALVE, SOL, 1/4"COMP, N/C, 120V           24         21061         21061         21061         FILTER, VOC, ULTIMA CLASSIC           25         9541         9541         9541         TUBING, 5/8" OD x 3/8" ID,           26         9921         9921         9921         CLAMP, HOSE, WIRE SPRING, 5/8"           27         21007A-02         21007A-02         21007A-02         PAN, BOTTOM, STUDDED, STAINLESS STEEL           28         654         654         MICROSWITCH KIT           29         21063         21063         21063         FLOAT AND ACTUATING ARM KIT           30         406         406         406         BOILING TANK LID KIT           34         633J         633         633V         1000 WATT HEATER KIT           34         738J         738         738V         1200 WATT HEATER KIT           35         7069         7069         RESET, 66T, 220F(+8F/-0)           36         510         510         510         PLATE, RETAINER, RESET, PC           37         424A         424A         ASSY., RESET RETAINER PLATE           38         9009         9049         9045         9045         9045         9045					
24         21061         21061         21061         FILTER, VOC, ULTIMA CLASSIC           25         9541         9541         9541         TUBING, 5/8" OD x 3/8" ID,           26         9921         9921         9921         CLAMP, HOSE, WIRE SPRING, 5/8"           27         21007A-02         21007A-02         21007A-02         PAN, BOTTOM, STUDDED, STAINLESS STEEL           28         654         654         654         MICROSWITCH KIT           29         21063         21063         FLOAT AND ACTUATING ARM KIT           30         406         406         BOILING TANK LID KIT           34         633J         633         633V         1000 WATT HEATER KIT           34         738J         738         738V         1200 WATT HEATER KIT           35         7069         7069         7069         RESET, 66T, 220F(+8F/-0)           36         510         510         510         PLATE, RETAINER, RESET, PC           37         424A         424A         ASSY., RESET RETAINER PLATE           38         9009         9009         WASHER, 1/4" X 5/8"OD, FLAT           39         9045         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02 <td></td> <td></td> <td></td> <td></td> <td>· · ·</td>					· · ·
25         9541         9541         9541         TUBING, 5/8" OD x 3/8" ID,           26         9921         9921         9921         CLAMP, HOSE, WIRE SPRING, 5/8"           27         21007A-02         21007A-02         21007A-02         21007A-02         21007A-02           28         654         654         MICROSWITCH KIT           29         21063         21063         21063         FLOAT AND ACTUATING ARM KIT           30         406         406         406         BOILING TANK LID KIT           34         633J         633         633V         1000 WATT HEATER KIT           34         738J         738         738V         1200 WATT HEATER KIT           35         7069         7069         7069         RESET, 66T, 220F(+8F/-0)           36         510         510         510         PLATE, RETAINER, RESET, PC           37         424A         424A         ASSY., RESET RETAINER PLATE           38         9009         9009         WASHER, 1/4" X 5/8"OD, FLAT           39         9045         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02         21501-02         TANK, STUDDED, BOILING ULT 2           41         9508<					
26         9921         9921         9921         CLAMP, HOSE, WIRE SPRING, 5/8"           27         21007A-02         21007A-02         PAN, BOTTOM, STUDDED, STAINLESS STEEL           28         654         654         654         MICROSWITCH KIT           29         21063         21063         21063         FLOAT AND ACTUATING ARM KIT           30         406         406         BOILING TANK LID KIT           34         633J         633         633V         1000 WATT HEATER KIT           34         738J         738         738V         1200 WATT HEATER KIT           34         764J         764         764V         1500 WATT HEATER KIT           35         7069         7069         7069         RESET, 66T, 220F(+8F/-0)           36         510         510         510         PLATE, RETAINER, RESET, PC           37         424A         424A         ASSY., RESET RETAINER PLATE           38         9009         9009         WASHER, 1/4" X 5/8"OD, FLAT           39         9045         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02         21501-02         TANK, STUDDED, BOILING ULT 2           41         9508         9508					
27         21007A-02         21007A-02         21007A-02         PAN, BOTTOM, STUDDED, STAINLESS STEEL           28         654         654         654         MICROSWITCH KIT           29         21063         21063         21063         FLOAT AND ACTUATING ARM KIT           30         406         406         406         BOILING TANK LID KIT           34         633J         633         633V         1000 WATT HEATER KIT           34         738J         738         738V         1200 WATT HEATER KIT           34         764J         764         764V         1500 WATT HEATER KIT           35         7069         7069         7069         RESET, 66T, 220F(+8F/-0)           36         510         510         510         PLATE, RETAINER, RESET, PC           37         424A         424A         ASSY., RESET RETAINER PLATE           38         9009         9009         WASHER, 1/4" X 5/8"OD, FLAT           39         9045         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02         21501-02         TANK, STUDDED, BOILING ULT 2           41         9508         9508         YALVE, DRAIN, BRASS STEM, 1/2"           42         611					
28         654         654         MICROSWITCH KIT           29         21063         21063         21063         FLOAT AND ACTUATING ARM KIT           30         406         406         406         BOILING TANK LID KIT           34         633J         633V         1000 WATT HEATER KIT           34         738J         738         738V         1200 WATT HEATER KIT           34         764J         764         764V         1500 WATT HEATER KIT           35         7069         7069         RESET, 66T, 220F(+8F/-0)           36         510         510         510         PLATE, RETAINER, RESET, PC           37         424A         424A         ASSY, RESET RETAINER PLATE           38         9009         909         909         WASHER, 1/4" X 5/8"OD, FLAT           39         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02         21501-02         TANK, STUDDED, BOILING ULT 2           41         9508         9508         9508         VALVE, DRAIN, BRASS STEM, 1/2"           42         611         611         TUBE, DRAIN EXTENSION           43         21009B         21009B         PANEL, BACK, ULTIMA CLASSIC, BLACK					
29         21063         21063         FLOAT AND ACTUATING ARM KIT           30         406         406         406         BOILING TANK LID KIT           34         633J         633         633V         1000 WATT HEATER KIT           34         738J         738         738V         1200 WATT HEATER KIT           34         764J         764         764V         1500 WATT HEATER KIT           35         7069         7069         7069         RESET, 66T, 220F(+8F/-0)           36         510         510         510         PLATE, RETAINER, RESET, PC           37         424A         424A         ASSY, RESET RETAINER PLATE           38         9009         9009         WASHER, 1/4" \$5/8"OD, FLAT           39         9045         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02         21501-02         TANK, STUDDED, BOILING ULT 2           41         9508         9508         VALVE, DRAIN, BRASS STEM, 1/2"           42         611         611         1098         DRAIN EXTENSION           43         21009B         21009B         21009B         PANEL, BACK, ULTIMA CLASSIC, BLACK           44         21041         21041         GR					
30         406         406         BOILING TANK LID KIT           34         633J         633         633V         1000 WATT HEATER KIT           34         738J         738         738V         1200 WATT HEATER KIT           34         764J         764         764V         1500 WATT HEATER KIT           35         7069         7069         7069         RESET, 66T, 220F(+8F/-0)           36         510         510         510         PLATE, RETAINER, RESET, PC           37         424A         424A         ASSY, RESET RETAINER PLATE           38         9009         9009         WASHER, 1/4" X 5/8"OD, FLAT           39         9045         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02         21501-02         21501-02         TANK, STUDDED, BOILING ULT 2           41         9508         9508         9508         VALVE, DRAIN, BRASS STEM, 1/2"           42         611         611         TUBE, DRAIN EXTENSION           43         21009B         21009B         PANEL, BACK, ULTIMA CLASSIC, BLACK           44         21041         21041         GROMMET, 1/2" ID BLACK RUBBER           45         219-0227         219-0227         METER,					
34         633J         633         633V         1000 WATT HEATER KIT           34         738J         738         738V         1200 WATT HEATER KIT           34         764J         764         764V         1500 WATT HEATER KIT           35         7069         7069         RESET, 66T, 220F(+8F/-0)           36         510         510         DLATE, RETAINER, RESET, PC           37         424A         424A         ASSY., RESET RETAINER PLATE           38         9009         9009         WASHER, 1/4" X 5/8"OD, FLAT           39         9045         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02         21501-02         TANK, STUDDED, BOILING ULT 2           41         9508         9508         VALVE, DRAIN, BRASS STEM, 1/2"           42         611         611         TUBE, DRAIN EXTENSION           43         21009B         21009B         PANEL, BACK, ULTIMA CLASSIC, BLACK           44         21041         21041         GROMMET, 1/2" ID BLACK RUBBER           45         219-0227         219-0227         METER, HOUR, 120V/240V           46         410A         410A         410A         LID, STORAGE TANK           47					
34         738J         738         738V         1200 WATT HEATER KIT           34         764J         764         764V         1500 WATT HEATER KIT           35         7069         7069         RESET, 66T, 220F(+8F/-0)           36         510         510         PLATE, RETAINER, RESET, PC           37         424A         424A         ASSY., RESET RETAINER PLATE           38         9009         9009         9009         WASHER, 1/4" X 5/8"OD, FLAT           39         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02         21501-02         1501-02					
34         764J         764         764V         1500 WATT HEATER KIT           35         7069         7069         RESET, 66T, 220F(+8F/-0)           36         510         510         510         PLATE, RETAINER, RESET, PC           37         424A         424A         ASSY., RESET RETAINER PLATE           38         9009         9009         WASHER, 1/4" X 5/8"OD, FLAT           39         9045         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02         21501-02         TANK, STUDDED, BOILING ULT 2           41         9508         9508         VALVE, DRAIN, BRASS STEM, 1/2"           42         611         611         TUBE, DRAIN EXTENSION           43         21009B         21009B         21009B         PANEL, BACK, ULTIMA CLASSIC, BLACK           44         21041         21041         21041         GROMMET, 1/2" ID BLACK RUBBER           45         219-0227         219-0227         METER, HOUR, 120V/240V           46         410A         410A         410A         LID, STORAGE TANK           47         8014         8014         8014         FILTER, AIR, 80 MICRON, HDPE           48         21025         21025         PROBE, ASSY, HI					
35					
36         510         510         510         PLATE, RETAINER, RESET, PC           37         424A         424A         424A         ASSY., RESET RETAINER PLATE           38         9009         9009         WASHER, 1/4" X 5/8"OD, FLAT           39         9045         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02         21501-02         TANK, STUDDED, BOILING ULT 2           41         9508         9508         VALVE, DRAIN, BRASS STEM, 1/2"           42         611         611         TUBE, DRAIN EXTENSION           43         21009B         21009B         PANEL, BACK, ULTIMA CLASSIC, BLACK           44         21041         21041         GROMMET, 1/2" ID BLACK RUBBER           45         219-0227         219-0227         METER, HOUR, 120V/240V           46         410A         410A         410A         LID, STORAGE TANK           47         8014         8014         8014         FILTER, AIR, 80 MICRON, HDPE           48         21025         21025         PROBE, ASSY, MID, ULTIMA CLASSIC, 4.25"           49         21021         21021         PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"           50         221-0308         221-0308         CONN., SPEEDFIT,					
37         424A         424A         424A         ASSY., RESET RETAINER PLATE           38         9009         9009         WASHER, 1/4" X 5/8"OD, FLAT           39         9045         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02         21501-02         TANK, STUDDED, BOILING ULT 2           41         9508         9508         VALVE, DRAIN, BRASS STEM, 1/2"           42         611         611         TUBE, DRAIN EXTENSION           43         21009B         21009B         PANEL, BACK, ULTIMA CLASSIC, BLACK           44         21041         21041         GROMMET, 1/2" ID BLACK RUBBER           45         219-0227         219-0227         METER, HOUR, 120V/240V           46         410A         410A         410A         LID, STORAGE TANK           47         8014         8014         8014         FILTER, AIR, 80 MICRON, HDPE           48         21025         21025         PROBE, ASSY, MID, ULTIMA CLASSIC, 4.25"           49         21021         21021         PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"           50         221-0308         221-0308         CONN., SPEEDFIT, 1/4"T X 3/8"M           51         21502-02         21502-02         TANK, STUDDED, INT STORA					· · · · · · · · · · · · · · · · · · ·
38         9009         9009         WASHER, 1/4" X 5/8"OD, FLAT           39         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02         21501-02         TANK, STUDDED, BOILING ULT 2           41         9508         9508         VALVE, DRAIN, BRASS STEM, 1/2"           42         611         611         TUBE, DRAIN EXTENSION           43         21009B         21009B         PANEL, BACK, ULTIMA CLASSIC, BLACK           44         21041         21041         GROMMET, 1/2" ID BLACK RUBBER           45         219-0227         219-0227         METER, HOUR, 120V/240V           46         410A         410A         410A         LID, STORAGE TANK           47         8014         8014         8014         FILTER, AIR, 80 MICRON, HDPE           48         21025         21025         PROBE, ASSY, MID, ULTIMA CLASSIC, 4.25"           49         21021         21021         PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"           50         221-0308         221-0308         221-0308         CONN., SPEEDFIT, 1/4"T X 3/8"M           51         21502-02         21502-02         TANK, STUDDED, INT STORAGE, 2 GALLON           *         21036         21036         Carboard Box <td></td> <td></td> <td></td> <td></td> <td></td>					
39         9045         9045         9045         NUT, 1/4-20, HEX, S.S.           40         21501-02         21501-02         TANK, STUDDED, BOILING ULT 2           41         9508         9508         VALVE, DRAIN, BRASS STEM, 1/2"           42         611         611         TUBE, DRAIN EXTENSION           43         21009B         21009B         PANEL, BACK, ULTIMA CLASSIC, BLACK           44         21041         21041         GROMMET, 1/2" ID BLACK RUBBER           45         219-0227         219-0227         METER, HOUR, 120V/240V           46         410A         410A         LID, STORAGE TANK           47         8014         8014         FILTER, AIR, 80 MICRON, HDPE           48         21025         21025         PROBE, ASSY, MID, ULTIMA CLASSIC, 4.25"           49         21021         21021         PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"           50         221-0308         221-0308         CONN., SPEEDFIT, 1/4"T X 3/8"M           51         21502-02         21502-02         TANK, STUDDED, INT STORAGE, 2 GALLON           *         21036         21036         Carboard Box					
40         21501-02         21501-02         TANK, STUDDED, BOILING ULT 2           41         9508         9508         YALVE, DRAIN, BRASS STEM, 1/2"           42         611         611         TUBE, DRAIN EXTENSION           43         21009B         21009B         PANEL, BACK, ULTIMA CLASSIC, BLACK           44         21041         21041         GROMMET, 1/2" ID BLACK RUBBER           45         219-0227         219-0227         METER, HOUR, 120V/240V           46         410A         410A         LID, STORAGE TANK           47         8014         8014         FILTER, AIR, 80 MICRON, HDPE           48         21025         21025         PROBE, ASSY, MID, ULTIMA CLASSIC, 4.25"           49         21021         21021         PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"           50         221-0308         221-0308         CONN., SPEEDFIT, 1/4"T X 3/8"M           51         21502-02         21502-02         TANK, STUDDED, INT STORAGE, 2 GALLON           *         21036         21036         Carboard Box					
41       9508       9508       9508       VALVE, DRAIN, BRASS STEM, 1/2"         42       611       611       TUBE, DRAIN EXTENSION         43       21009B       21009B       PANEL, BACK, ULTIMA CLASSIC, BLACK         44       21041       21041       GROMMET, 1/2" ID BLACK RUBBER         45       219-0227       219-0227       METER, HOUR, 120V/240V         46       410A       410A       LID, STORAGE TANK         47       8014       8014       FILTER, AIR, 80 MICRON, HDPE         48       21025       21025       PROBE, ASSY, MID, ULTIMA CLASSIC, 4.25"         49       21021       21021       PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"         50       221-0308       221-0308       CONN., SPEEDFIT, 1/4"T X 3/8"M         51       21502-02       21502-02       TANK, STUDDED, INT STORAGE, 2 GALLON         *       21036       21036       Carboard Box					
42         611         611         TUBE, DRAIN EXTENSION           43         21009B         21009B         21009B         PANEL, BACK, ULTIMA CLASSIC, BLACK           44         21041         21041         GROMMET, 1/2" ID BLACK RUBBER           45         219-0227         219-0227         METER, HOUR, 120V/240V           46         410A         410A         LID, STORAGE TANK           47         8014         8014         FILTER, AIR, 80 MICRON, HDPE           48         21025         21025         PROBE, ASSY, MID, ULTIMA CLASSIC, 4.25"           49         21021         21021         PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"           50         221-0308         221-0308         CONN., SPEEDFIT, 1/4"T X 3/8"M           51         21502-02         21502-02         TANK, STUDDED, INT STORAGE, 2 GALLON           *         21036         21036         Carboard Box					
43         21009B         21009B         21009B         PANEL, BACK, ULTIMA CLASSIC, BLACK           44         21041         21041         GROMMET, 1/2" ID BLACK RUBBER           45         219-0227         219-0227         METER, HOUR, 120V/240V           46         410A         410A         LID, STORAGE TANK           47         8014         8014         FILTER, AIR, 80 MICRON, HDPE           48         21025         21025         PROBE, ASSY, MID, ULTIMA CLASSIC, 4.25"           49         21021         21021         PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"           50         221-0308         221-0308         CONN., SPEEDFIT, 1/4"T X 3/8"M           51         21502-02         21502-02         TANK, STUDDED, INT STORAGE, 2 GALLON           *         21036         21036         Carboard Box					
44         21041         21041         GROMMET, 1/2" ID BLACK RUBBER           45         219-0227         219-0227         METER, HOUR, 120V/240V           46         410A         410A         LID, STORAGE TANK           47         8014         8014         FILTER, AIR, 80 MICRON, HDPE           48         21025         21025         PROBE, ASSY, MID, ULTIMA CLASSIC, 4.25"           49         21021         21021         PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"           50         221-0308         221-0308         CONN., SPEEDFIT, 1/4"T X 3/8"M           51         21502-02         21502-02         TANK, STUDDED, INT STORAGE, 2 GALLON           *         21036         21036         Carboard Box					
45         219-0227         219-0227         METER, HOUR, 120V/240V           46         410A         410A         LID, STORAGE TANK           47         8014         8014         FILTER, AIR, 80 MICRON, HDPE           48         21025         21025         PROBE, ASSY, MID, ULTIMA CLASSIC, 4.25"           49         21021         21021         PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"           50         221-0308         221-0308         CONN., SPEEDFIT, 1/4"T X 3/8"M           51         21502-02         21502-02         TANK, STUDDED, INT STORAGE, 2 GALLON           *         21036         21036         Carboard Box					
46         410A         410A         LID, STORAGE TANK           47         8014         8014         FILTER, AIR, 80 MICRON, HDPE           48         21025         21025         PROBE, ASSY, MID, ULTIMA CLASSIC, 4.25"           49         21021         21021         PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"           50         221-0308         221-0308         CONN., SPEEDFIT, 1/4"T X 3/8"M           51         21502-02         21502-02         TANK, STUDDED, INT STORAGE, 2 GALLON           *         21036         21036         Carboard Box					
47         8014         8014         FILTER, AIR, 80 MICRON, HDPE           48         21025         21025         PROBE, ASSY, MID, ULTIMA CLASSIC, 4.25"           49         21021         21021         PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"           50         221-0308         221-0308         CONN., SPEEDFIT, 1/4"T X 3/8"M           51         21502-02         21502-02         TANK, STUDDED, INT STORAGE, 2 GALLON           *         21036         21036         Carboard Box					
48         21025         21025         PROBE, ASSY, MID, ULTIMA CLASSIC, 4.25"           49         21021         21021         PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"           50         221-0308         221-0308         CONN., SPEEDFIT, 1/4"T X 3/8"M           51         21502-02         21502-02         TANK, STUDDED, INT STORAGE, 2 GALLON           *         21036         21036         Carboard Box					·
49         21021         21021         PROBE, ASSY, HIGH, ULTIMA CLASSIC, 1.8"           50         221-0308         221-0308         CONN., SPEEDFIT, 1/4"T X 3/8"M           51         21502-02         21502-02         TANK, STUDDED, INT STORAGE, 2 GALLON           *         21036         21036         Carboard Box					
50         221-0308         221-0308         CONN., SPEEDFIT, 1/4"T X 3/8"M           51         21502-02         21502-02         TANK, STUDDED, INT STORAGE, 2 GALLON           *         21036         21036         Carboard Box					
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# Getting to Know Your Ultima Classic System (Front View)

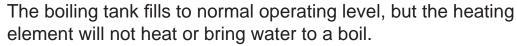


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# Getting to Know Your Ultima Classic System (Rear View)







- If the heater reset is not popped or the fan is running and the boiling tank is full of water, you may have a defective heating element.
- If water continues to fill the boiling tank after draining the tank, and the fan isn't operating either, then you may have a defective outside boiling tank microswitch. Check with a volt/ohm meter.
- Make sure the float is operating correctly and not stuck at bottom of tank.
- Check all wiring connections on the control relay. Inspect for any burnt or damaged wires on the relay. Check the relay with a volt/ohm meter.



#### The boiling tank overflows with water.

- If the float actuating arm is depressing the inside microswitch and the float rod is moving freely and floats accordingly with the water level, you may have a defective microswitch. Check with a volt/ohm meter.
- If the microswitch checks out ok, and the heating element and fan come on, then you need to replace the relay. Check with a volt/ohm meter.
- If the microswitch and relay check out ok, then you may have a defective solenoid.

  Turn the power switch to "OFF". If water continues to flow into the boiling tank, then you need to replace the solenoid.
- If the float ball is heavy and has scale build-up, clean the boiling tank and, if necessary, replace the float.
- If the float is not moving freely, you may need to install a new bushing and o-ring or float repair kit.
- If the float ball is full of water, replace the float ball.



# Machine does not shut off when storage tank is full.

- Check that the Storage Tank 3 pin wire harness is properly connected.
- Connect the 3 storage tank probes together. If the unit does not shut down, then replace the level control circuit board.



#### The unit runs a short time and the heater reset pops.

Note: If the reset is popped, use the eraser end of a pencil to reset it.

- If the boiling tank water level is below the heating element, the float may be sticking and you may need to adjust the float or install a new bushing and o-ring or float repair kit.
- If the unit starts up after it is cooled, you may have a faulty reset.

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### Troubleshooting



#### The machine will not operate at all.

**Note:** The water level in the storage tank must be below 3/4 full before the distiller will start.

- Make sure the power cord is plugged into the wall outlet and inserted fully into the "Power Cord Plug" outlet. Make sure the outlet is working properly.
- Make sure the power switch is ON. Note: The power switch has a light to indicate that power is on to the unit. If the switch is ON and the power switch light is not luminated, the ON/OFF switch may be defective and needs to be replaced.
- If the power light is luminated, check to see if the heater reset on the back of the unit has popped. If it has, press the reset button with the eraser end of a pencil.
- Make sure the incoming water supply is turned on and is flowing into the boiling tank.
- Check all wiring connections on the control relay. Ensure you have voltage to the relay using a volt/ohm meter.

#### The boiling tank will not fill with water automatically.

**Note:** Make sure the saddle tapping valve or utility hook-up valve is open to supply the feed water.

**Note:** The water level in the internal storage tank must be below 3/4 full before the distiller will start.

- If the float ball inside the boiling tank is resting against the heat tab and is fully depressing the low level (top) microswitch, you probably need to replace the microswitch. Check with a volt/ohm meter.
- If the microswitch checks out ok, and the heating element and fan come on, then you may need to replace the relay. Another indication of a bad relay is the heater reset will likely be popped.
- If the float inside the boiling tank is not moving freely, install a new float repair kit, with bushing and o-ring.

#### The unit boils the water, but the fan is not working.

- Make sure the fan switch is set to "ON".
- The fan switch may be defective. Check with a volt-ohm meter.
- The fan motor may be defective. Check with a volt-ohm meter.

#### The fan will not operate or is making excessive noise.

 Make sure the fan switch is in the ON position. If so, then you may have a defective switch. Check with a volt/ohm meter.







#### How Your Distiller Works

The Pure Water Ultima Classic is designed to produce high purity distilled water. There are three production levels depending on the model that was ordered:

1000 Watt Boiling Tank...... approximately 8 gallons per day.

1200 Watt Boiling Tank..... approximately 10 gallons per day.

1500 Watt Boiling Tank ...... approximately 12 gallons per day.

The Pure Water Ultima Classic is a fully automatic unit. The water level in the boiling tank is controlled by a float and microswitches and the internal storage tank is controlled by level sensing probes.

The boiling tank operates on a modified batch approach. Feedwater is automatically added until a high level is reached and this triggers the heating element and fan to operate. This begins the distillation cycle.

As the unit distills, the water level in the boiling tank falls. When the water level gets close to the heating element, the low-level microswitch is triggered, causing feedwater to be added until the high level is reached. If, for some reason, no water enters the boiling tank when needed, the fan and heating element will turn off until the condition is corrected.

Once the storage tank is full of distilled water, the unit will automatically shut down. The Ultima Classic will begin distilling again once the water level in the storage tank drops by approximately 0.5 Gallons. It continues to operate until the storage tank is full again.

The distilled water from the internal stainless steel tank feeds by gravity into the stainless steel tanks in the water dispenser. The room/cold tank holds approximately 4 gallons and the hot tank holds an additional 0.75 gallons of water. The distilled drinking water is drawn through the faucets on the front of the dispenser.

The Ultima Classic is equipped with a Manual Drain Valve, which allows the residue from the boiling tank to be drained periodically.

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#### Installation

#### Special Feature

The Ultima Classic is designed with a removable boiling chamber. It can be removed for cleaning or servicing.

Things to consider when installing your Pure Water Ultima Classic:

- Select an area that will allow the distiller to remain level. Improper leveling could affect the production rate.
- The distiller must be located in close proximity to a water supply and an appropriate electrical supply source. The distiller should also be located in a well ventilated room.
- · Electrical requirements:

8 Gallon per day model:Isolated 115 VAC, 15 amp circuit (220 VAC, 7.5 amp). Check the electrical rating on the label on the rear of the distiller.

10 or 12 Gallon per day model: Isolated 115 VAC, 20 amp circuit (220 VAC, 10 amp). Check the electrical rating on the label on the rear of the distiller.

CAUTION: The Pure Water Ultima Classic is a heavy system. Please use caution when removing it from the carton to prevent injury. The cooler has 2 leveling feet in the front, and 2 wheels in the rear that can be used to move the unit.

#### **Unpacking the Ultima Classic Distiller:**

1. Open the box. Unpack the distiller and parts kits.

Check that all of the parts are included.

\* International systems do not have a power cord included. Source the appropriate cord locally or through your local distributor.





- 8. If needed, use a wet/dry vacuum to remove any remaining debris from the tank.
- 9. Rinse the inside of the tank with fresh water.
- 10. Reinstall the boiling tank and turn the power ON.

# **Every 3 Months:** Change the Carbon Filter.

#### Changing the Pre-Filter

- 1. Turn the Power Switch to OFF.
- 2. Turn the water off at the wall valve.
- 3. Disconnect the filter from the tubing.
- 4. Connect the inlet tube to the inlet side of the new filter.
- Hold filter over a bucket or drain.
- 6. Cycle water on and off several times until water fromt he outlet of the filter is clear.
- 7. Connect outlet of filter to tubing.
- 8. Turn water and power ON.

#### When Needed: Sterilize the Storage Tank.

#### Tank Sterilizing-Sterilizing the Internal Distillate Tank

Steam Sterilization is a method of disinfecting your storage tank. The storage tank may need to be sterilized periodically. To sterilize the storage tank:

- 1. Allow the storage tank to completely drain.
- 2. Make sure the main power switch is ON.
- 3. Turn the fan switch to OFF. This will start a "Steam Sterilization" cycle. Steam will now be produced in the boiling tank. The steam will pass through the coil, but since the fan is turned off, the steam will not be cooled. The steam will heat up and sterilize the storage tank. Allow the distiller to run for 20 minutes.
- 4. Turn the fan switch to ON.

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# Maintenance and Cleaning

#### **Overall Maintenance Requirements**

The following guide should be used for the maintenance of your distiller. The timing will vary according to your local water conditions. It is your responsibility to maintain your equipment. Without proper maintenance, your distiller may not produce optimum results. The following is an average guide to maintenance:

Every 2 Weeks: Drain the boiling tank.

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

The Ultima Classic has a manual drain valve that discards the contaminants and residue out of the boiling tank when opened. This minimizes the build-up of scale in the boiling tank.

**Important Note:** If the unit is hot, turn the power OFF and allow it to cool before draining the boiling tank.

- 1. Turn the Power Switch to OFF.
- 2. Turn the valve on the back of the Ultima Classic and allow the residue to drain into a sink, drain or bucket.
- 3. Close the valve.
- 4. Turn the Power Switch to ON.

Every 3 Months: Clean the boiling tank.

#### Cleaning the Boiling Tank

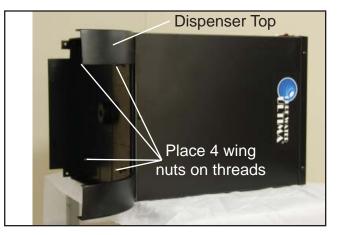
#### **Notes and Cautions:**

Caution: Under no circumstances should the cleaning solution be heated and run through a steam sterilization or distillation cycle.

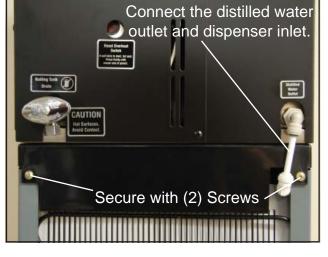
**Note:** Failure to clean the boiling tank can result in scale build-up causing premature heating element failure, as well as possible reduced purity of the distilled water.

- 1. Turn the Power Switch to OFF. If needed, allow the unit to cool.
- 2. Drain the boiling tank (see instructions above).
- 3. Remove the back panel of the distillation unit.
- 4. Disconnect the boiling tank wire harness, inlet tube, and steam tube. Remove the boiling tank.
- 5. Manually fill the boiling tank until the scale in the boiling tank is underwater.
- 6. Add 2 tablespoons of Lumen® descaler to the boiling tank. Allow to sit overnight.
- 7. Drain all of the water from the boiling tank.

- 2. Remove the top cover from the dispenser.
- 3. Attach the dispenser top cover to the distiller bottom pan. There are 4 studs on the bottom pan that go through holes in the dispenser top cover. Secure these with the wingnuts provided in the installation kit.



- 4. Put the 1/4" tube from the dispenser storage tank through the hole in the back of the top cover.
- Place cover and distiller onto the dispenser and install the (2) screws at the back.
- Install the elbow into the distilled water outlet on the distiller. Install the reducer into the elbow so that the 1/4" tube can be connected



from the dispenser to the distilled water outlet.

- 7. Remove the back cover from the distiller. Disconnect the wire connectors and waterlines to the boiling tank.
- 8. Open the boiling tank and remove the wire tie holding the float down. This tie is placed on the float so that it does not bounce during shipping.
- 9. Reconnect the boiling tank and replace the back cover.

Note: The float ball in the boiling tank is tied down for shipping. The tie must be removed before the distiller is used.

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#### **Connecting the Raw Waterline:**

CAUTION: DO NOT use a hot water line for your supply line.

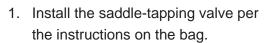
CAUTION: DO NOT turn the saddle tapping valve handle before or during installation. Be sure the piercing lance does not protrude beyond the rubber gasket. Failure to do this may result in damage to the piercing needle.

**Note:** The use of softened water for the raw water supply is recommended to minimize scale build-up in the boiling tank and drain valve.

**Note:** Do not plug the unit into the power source until instructed to do so.

Note: The Pure Water Ultima Classic comes standard with a saddle tap-

ping valve. In some areas a saddle tapping valve may not be permitted by local code. In such instances, contact your authorized Pure Water Distributor, Pure Water, or go to www. MyPureWater.com for other water line connection options.



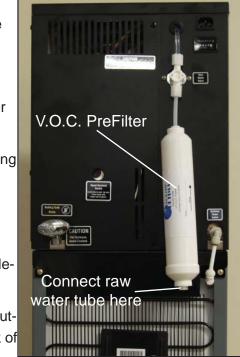
2. Connect the 1/4" tubing to the saddle tapping valve.

3. Connect the 1/4" tubing to the inlet of the carbon filter.

4. Rinse the carbon filter:

- a. Hold the outlet end of the carbon filter over a drain or bucket.
- b. Turn the water on at the saddle-tapping valve.
- c. Cycle the water on and off until the water exiting the carbon filter is clear.
- d. Turn the water supply off at the saddle-tapping vallve.
- 5. Install 1/4" tubing from the carbon filter outlet to the solenoid valve inlet on the back of the distiller.

6. Turn the water supply on at the saddle-tapping valve.



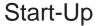
Note: The distiller will use very little water thoughout the day.
Only open the water supply valve a small amount.

Note: The use of

softened water is recommended to

minimize scale

build-up in the boiling tank and drain valve.



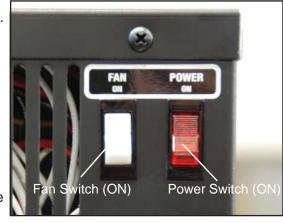
#### **Notes and Cautions:**

**Note:** This system must be fully grounded at all times. The electrical receptacle you use must be a fully grounded. If a two-pronged wall receptacle is encountered, it is the personal responsibility and obligation of the customer to contact a qualified electrician and have it replaced with a properly grounded three-pronged wall receptacle or have a grounding adaptor properly grounded.

CAUTION: Do not, under any circumstances, cut or remove the round grounding prong from the electrical plug.

Your unit now has:

- A raw waterline connected and turned on.
- A carbon prefilter installed
- The distiller is connected to the top of the dispenser.
- The distilled water line is connected to the dispenser storage tank.
- Plug the distiller power cord into the distiller and then into the wall.
   Turn the main power switch to ON.
- Turn the fan switch to OFF. This will start a "Steam Sterilization" cycle. Steam will now be produced in the boiling tank. The steam will pass through the coil, but since the fan is turned off, the steam will not be cooled. The



steam will heat up and sterilize the internal storage tank. Allow the distiller to run for 20 minutes.

- 3. Turn the fan switch to ON.
- 4. Allow the unit to fill the internal storage tank and the dispenser storage tanks and shut off.
- 8. Check for leaks.

The unit will now run automatically based on the water level in the internal storage tank.

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