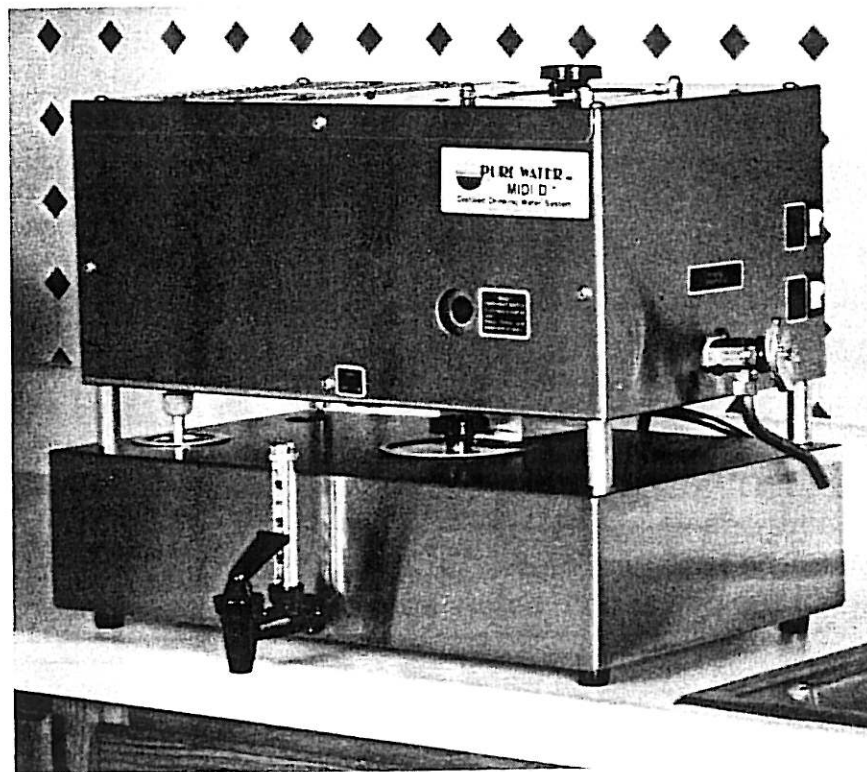


MIDI D™ AUTOMATIC

OWNERS MANUAL



3725 Touzalin Ave. P.O. Box 83226 Lincoln, NE 68501 U.S.A.
402/467-9300 Fax: 402/467-9393

CONTENTS

IMPORTANT SAFETY INFORMATION.....	2
FOR THE RECORD.....	3
HOW PURIFICATION WORKS.....	3
UNPACKING YOUR MIDI D.....	3
OPTIONAL ACCESSORIES FOR YOUR MIDI D.....	4
GETTING ACQUAINTED WITH YOUR MIDI D.....	4
ASSEMBLING THE MIDI D.....	5
INSTALLATION	
A. CONNECTING THE PURIFIER TO THE WATER LINE.....	6
B. CONNECTING YOUR HOME WATER SUPPLY TO THE PURIFIER.....	6
START-UP	
A. FIRST TIME START-UP, RINSING AND STEAM STERILIZATION.....	7
B. INSTALLING THE POST FILTER.....	7
PARTS.....	8
MAINTENANCE	
A. OVERALL MAINTENANCE REQUIREMENTS.....	10
B. CLEANING THE BOILING TANK.....	10
TROUBLE SHOOTING.....	11

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.
- Always unplug the power cord before assembling, disassembling, repairing or adjusting the purifier.
- **NEVER** immerse the purifier in water or any other liquid.
- **NEVER** operate the purifier with a damaged cord or allow the cord to become exposed to hot surfaces.
- **DO NOT** use an extension cord or any adapters.
- Don't let children play with the purifier.
Don't touch the top of the purifier when it is operating because it becomes very hot.
- Always wait at least 30 minutes after the purifier is turned off before draining the boiling tank.
- Exercise care when removing the boiling tank lid, and never do it when the purifier is operating.
- Midi D Automatic purifiers are designed to work with a direct water hook-up.

FOR THE RECORD

The model and Serial Number are found on the back panel. You should record both model and Serial Number below for future reference. The engineering revision number is denoted by the 8th digit in the serial number.

Date of Purchase _____ Model _____

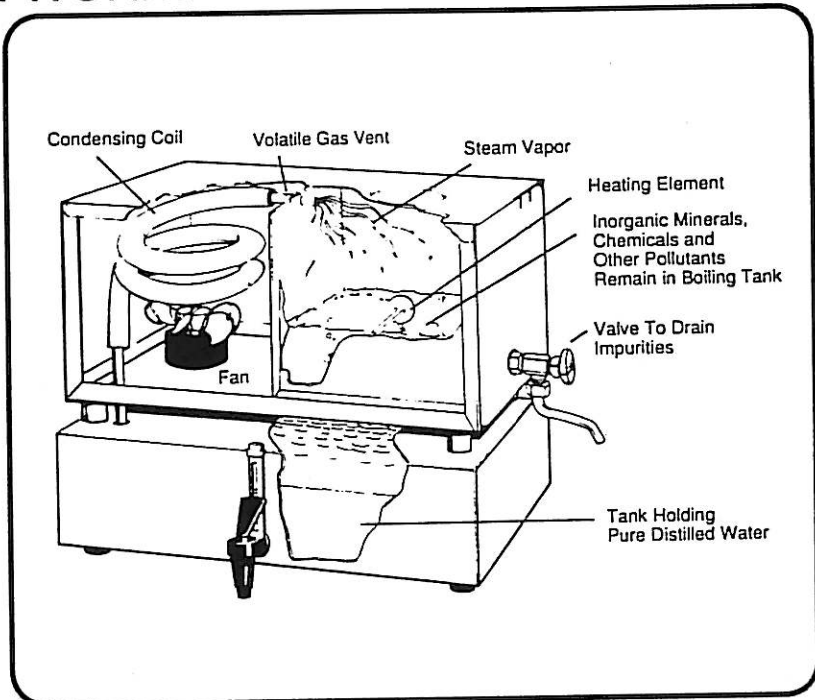
Serial Number _____ Engineering Revision _____

HOW PURIFICATION WORKS

Your system operates using the combined technology of purification and activated carbon filtration. This combined technology is designed to consistently produce high quality water.

The principle of purification is quite simple:

Raw feed water is taken into the machine where it is heated and boiled. As the water boils, it kills bacteria and other biological contaminants. The steam then rises leaving behind virtually all the contaminants in the raw water. The steam enters a condenser where cool air reduces the temperature of the steam, converting it to water. As a final step, this water passes through an activated carbon "post" filter to further improve water purity and overall taste. The water is stored in the storage tank until you are ready to use it.



UNPACKING YOUR MIDI D™

Your Pure Water Midi D™ Automatic is shipped to you with the following:

- Midi D™ Purification system.
- Storage tank with automatic float
- A faucet to access purified water .
- A post filter cartridge .
- Parts kit which allows you to hook the purifier directly into a waterline.
- Owner's manual.

Note: Save the box and packing material for future use in the unlikely event your purifier should require sending to a service center for repair.

OPTIONAL ACCESSORIES FOR YOUR MIDI D™

- Faucet hook-up kit complete with a demand pump to pump water directly to a special faucet. Stock# 19026 or Stock # 19040
- Ice maker hook-up kit for running purified water to your refrigerator ice maker or water dispenser. (An adjunct to the faucet hook-up kit.) Stock # 19009
- Lumen™ cleaner and descaler for cleaning the boiling tank. Stock # 6603
- Post filter replacement cartridge (4 pak). Stock # 9590
- Stainless steel polish. Stock # 6606
- Stand with castors. Stock # 3996

GETTING ACQUAINTED WITH YOUR MIDI D

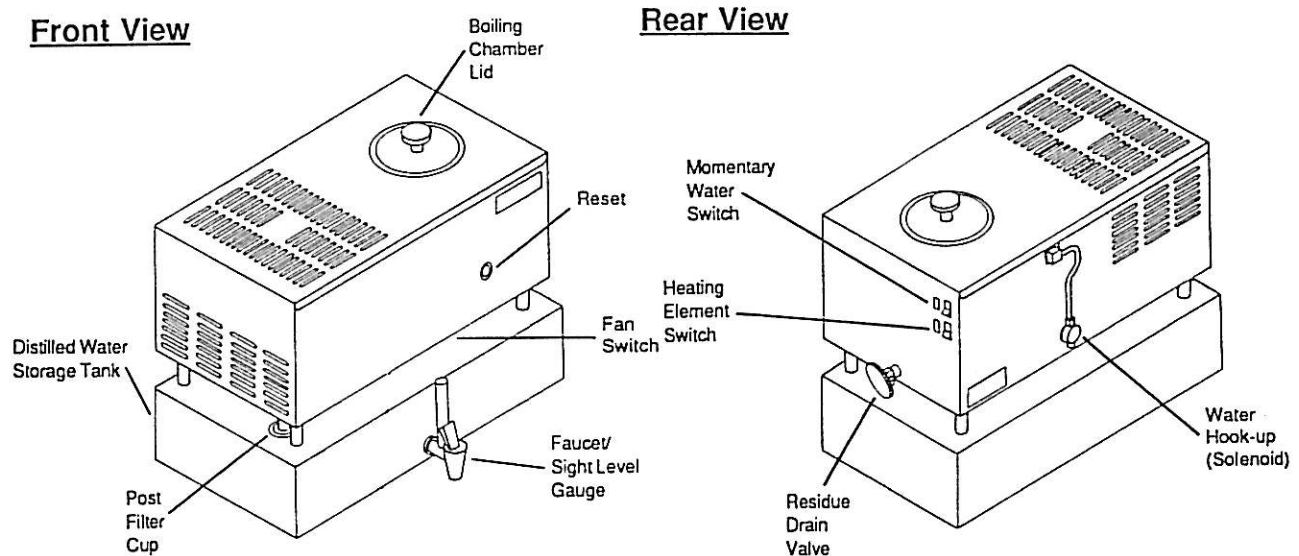


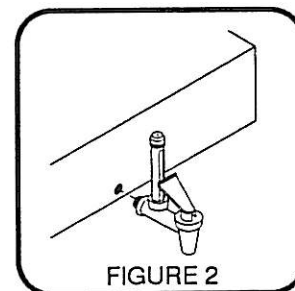
FIGURE 1

Your Midi D consists of two basic components: (1) the purifier to produce high quality water and (2) the storage tank for purified water storage.

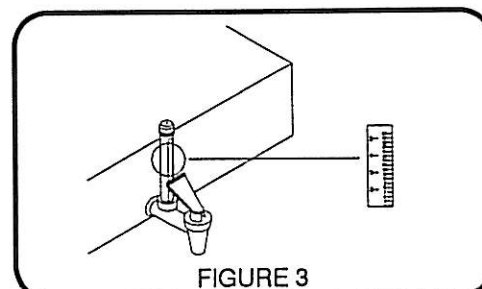
The purifier contains the following: a boiling tank where the raw water is boiled, a heating element, a condensing coil to collect and condense the steam, a fan to cool the steam and various electrical controls and safety features (See FIGURE 1). Inside the boiling tank is a float to control water level. The storage tank is for the purified water. You can remove the purified water from the faucet on the front of the tank. The level of the purified water in the storage tank and the operation of the purifier are controlled by the automatic float assembly.

ASSEMBLING YOUR MIDI D™

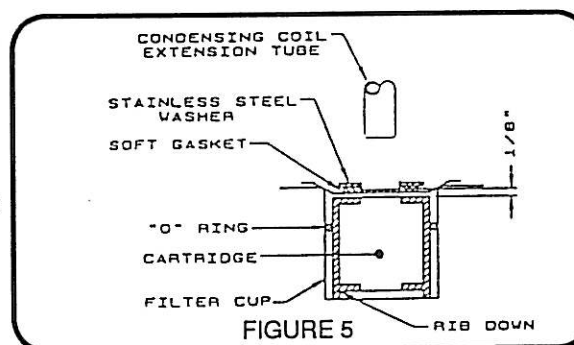
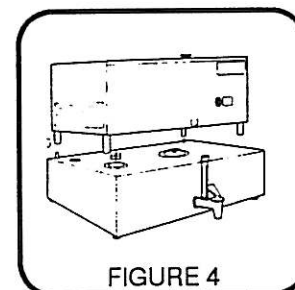
- a) Carefully lift the storage tank and purifier from the box and remove their protective bags.
- b) Remove the adhesive tape holding the post filter cup and cover.
- c) Open the purifier (boiling tank) lid by unscrewing the black knob counter-clockwise 3-4 turns. Move the lid sideways and tilt it out.
- d) Turn the drain valve extension tube around so it extends slightly out from the purifier edge.
- e) Remove the parts kit from the bottom of the shipping box.
- f) The parts kit contains:
 1. a direct waterline hook-up kit
 2. post filter cartridge and
 3. faucet for the storage tank.
- g) Insert the threaded portion of the storage tank faucet into the fitting on the front of the tank. Rotate the faucet clockwise until tight. Carefully twist the faucet so the sightglass is in a vertical position. (See FIGURE 2).



CAUTION: NEVER TWIST THE FAUCET ASSEMBLY BY THE SIGHT-GLASS, BECAUSE IT IS FRAGILE (SEE FIGURE 3).



- h) Check for leaks around the faucet by partially filling the tank with water. Should leaks occur, additional tightening may be necessary.
- i) Wash the tank with a warm water and baking soda solution, rinse and drain.
- j) Place purifier on storage tank as shown. (See FIGURE 4)
- k) Check that the condenser extension tube from the purifier is positioned directly over the post filter in the storage tank.
- l) Install the #6009 inlet gasket on the post filter lid. Install the #9099 stainless steel washer on top of the inlet gasket. Make sure the condenser extension tube is aligned with the washer and gasket (See FIGURE 5). This holds the tube in place. At this point, the actual post filter cartridge has NOT been installed. This will be installed later in the manual.



Note: Once the filter is installed as instructed on page 7, there should be a 1/16" to 1/8" gap between the condenser extension tube and the post filter cartridge to prevent possible overflow.

INSTALLATION

A. CONNECTING THE WATER LINE

Notes: 1) Production rate will be affected if the purifier is not level.
2) For lower boiling tank maintenance, using soft water as the raw water feed is highly recommended.

- Remove the compression nut from the parts kit, place thumb over large end while inserting the tubing through the small end of the compression nut. Let tubing protrude about 1/4".
- Install the plastic nut on the solenoid valve fitting about 1/4 turn. Push the water line as far as it will go and tighten the nut.
- Install the strainer by cutting the purifier water line approximately 6 inches (15cm) from the solenoid and insert tubing into the compression nuts following procedures a and b above.

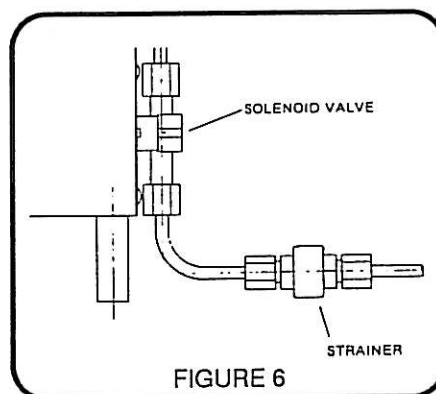


FIGURE 6

B. CONNECTING YOUR HOME WATER SUPPLY TO THE PURIFIER

CAUTION: DO NOT USE THE HOT WATER LINE.

CAUTION: DO NOT TURN THE HANDLE BEFORE OR WHILE INSTALLING THE "SADDLE TAPPING VALVE." BE SURE THE PIERCING LANCE DOES NOT PROTRUDE BEYOND THE RUBBER GASKET.

Notes: 1) Should any leaks occur, tighten all connections. Some areas where leaks may occur are: where the Saddle Tapping Valve attaches to the existing water line; where the tubing attaches to the strainer and/or where the tubing attaches to the saddle tapping valve.
2) In some jurisdictions a Saddle Tapping Valve may not be permitted. In such instances, we recommend a utility hook-up kit (part # 42).

- Turn the household water supply off.
- Install the Saddle Tapping Valve on the COLD water copper tubing so the outlet is in a convenient direction.
- Tighten screws evenly. Brackets should be parallel. Tighten firmly. Do not over tighten.
- Connect plastic tubing to Saddle Tapping Valve outlet.
- Coil a minimum of 8 feet (240cm) of tubing behind water purifier. This will allow purification system to be moved away from the wall for cleaning or service.
- Connect tubing from the purifier to the Saddle Tapping Valve.
- Turn the Saddle Tapping Valve handle clockwise until you feel it is firmly seated.

Note: You have now pierced the copper tube and the valve is closed.

- Turn the handle counter-clockwise to open the valve. Turn the household water supply on and check all connections for leaks.
- Open the Saddle Tapping Valve completely. Check the line for leaks. Tighten where required.

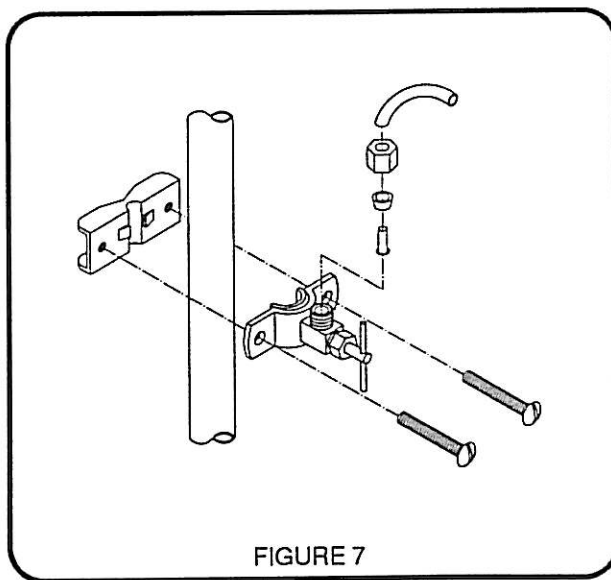


FIGURE 7

START-UP

A. FIRST TIME START-UP, RINSING AND STEAM STERILIZING

We recommend that you thoroughly rinse and steam sterilize your Midi D before putting it into use. Purified water from the first cycle should be discarded.

RINSING —

- a) Remove the boiling tank lid.
- b) Remove the wire tie restraining the float.
- c) Pour tap water into the boiling tank until approximately 3/4 full and open the boiling tank residue drain valve.
- d) Close the residue drain valve.

STEAM STERILIZATION —

- e) Plug the purifier power cord into the storage tank outlet labeled "Purifier".
- f) Plug the storage tank power cord into the power supply.

CAUTION: ENSURE THAT THE PURIFIER POWER CORD IS PLUGGED INTO THE "PURIFIER" OUTLET ON THE STORAGE TANK. IF INSERTED INTO THE "PUMP" OUTLET, THE PURIFIER WILL OVERFLOW CAUSING DAMAGE.

NOTE: MAKE SURE THE POST FILTER IS NOT INSTALLED AT THIS POINT.

- g) Turn the heating element switch ON and allow the unit to fill with water.
- h) When the boiling tank stops filling, turn the fan switch OFF and install the boiling tank lid.
- i) Open the storage tank faucet and place a 1 gallon container under the faucet to catch any water.
- j) Allow the unit to steam sterilize for 1 hour.

CAUTION: ALL SURFACES OF THE UNIT BECOME VERY HOT DURING STEAM STERILIZATION. USE EXTREME CAUTION DURING THIS OPERATION. PLACE THE UNIT OUT OF REACH OF CHILDREN.

- k) After 1 hour, close the storage tank faucet and turn the heating element switch OFF.
- l) Allow the unit to cool for a minimum of 15 minutes. When cool, install the post filter cartridge and 'o'-ring as instructed in Section B of Start-Up. Turn heating element switch and fan switch ON and allow unit to run through complete cycle.
- m) Open the storage tank faucet and discard the first batch of purifier water.
- n) Close storage tank faucet.

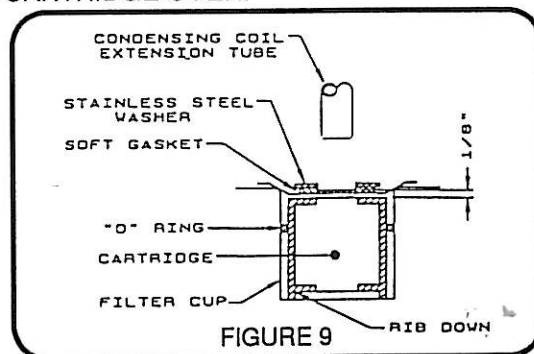
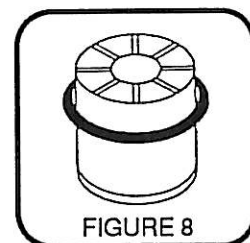
With the heating element switch ON and the fan switch ON, the unit is now ready for normal operation. We recommend steam sterilization cycle (steps e through l) every three months or if the unit has not been used for 1 week. The storage tank must be completely empty prior to starting a steam sterilization cycle.

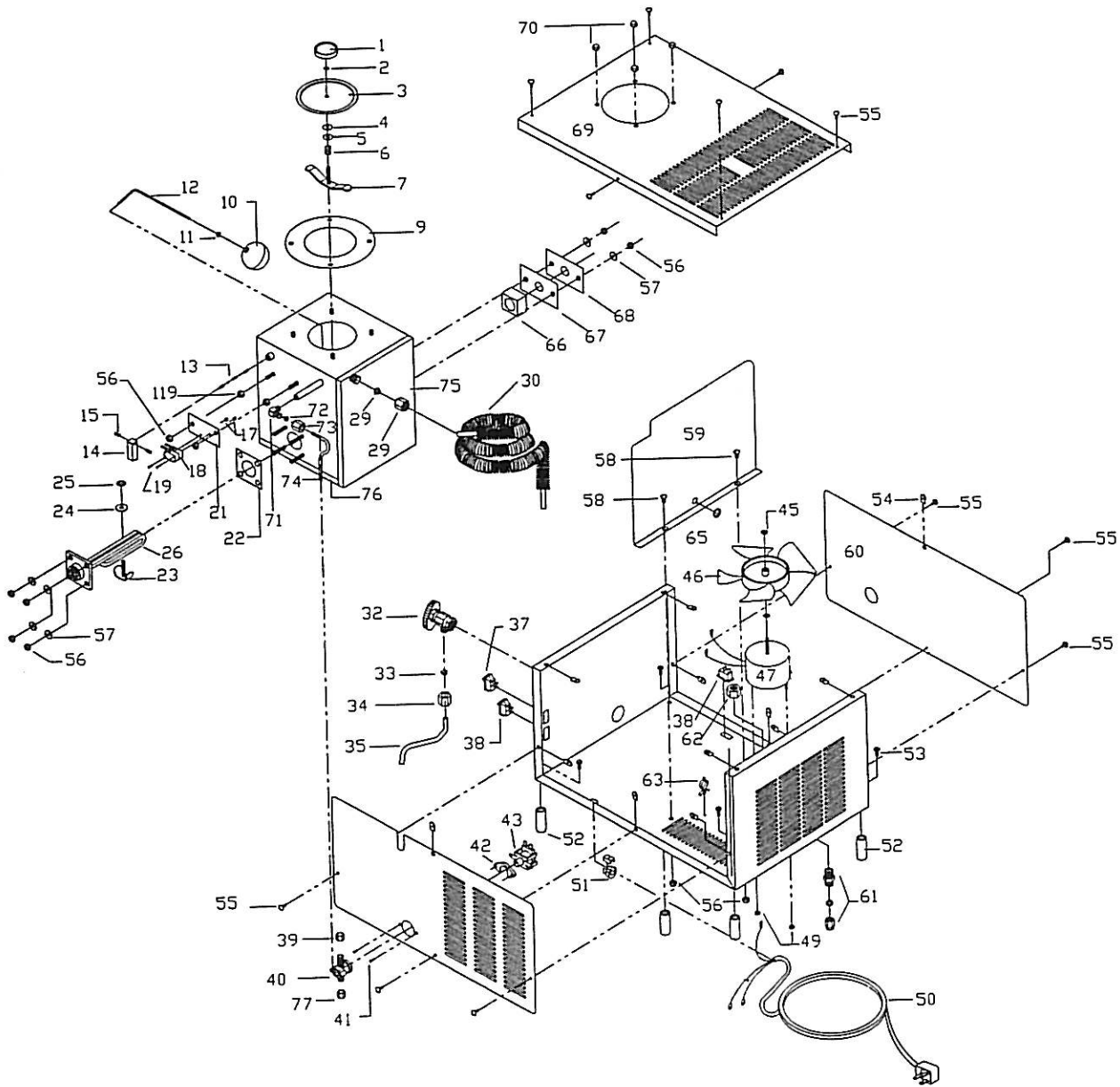
B. INSTALLING THE POST FILTER

The post filter fits into the filter cup on the top of the storage tank. Make sure the unit is not operating during installation of the post filter.

- a) Take the post filter cartridge from the parts kit.
- b) Remove the blue seals on each end of the filter. Note that one end of the cartridge has a lip around the outside. Consider this the bottom (FIGURE 9).
- c) Completely submerge the cartridge in purified water with the bottom up for 5 minutes.
- d) Remove the cartridge from the water and TURN THE CARTRIDGE OVER.
- e) Remove the filter cup from the storage tank and place the "O" Ring around the cartridge close to the bottom edge (lip end) and firmly push the cartridge into the cup. The cartridge should slide down smoothly into place with the "O" Ring visible just below the top of the cartridge.
- f) Place the cup back into the storage tank and place the filter cup on top of the cup.
- g) Position the soft gasket and stainless steel washer to seal the cartridge (See FIGURE 10).

NOTE: See note on page 5 for correct position of condenser extension tube.

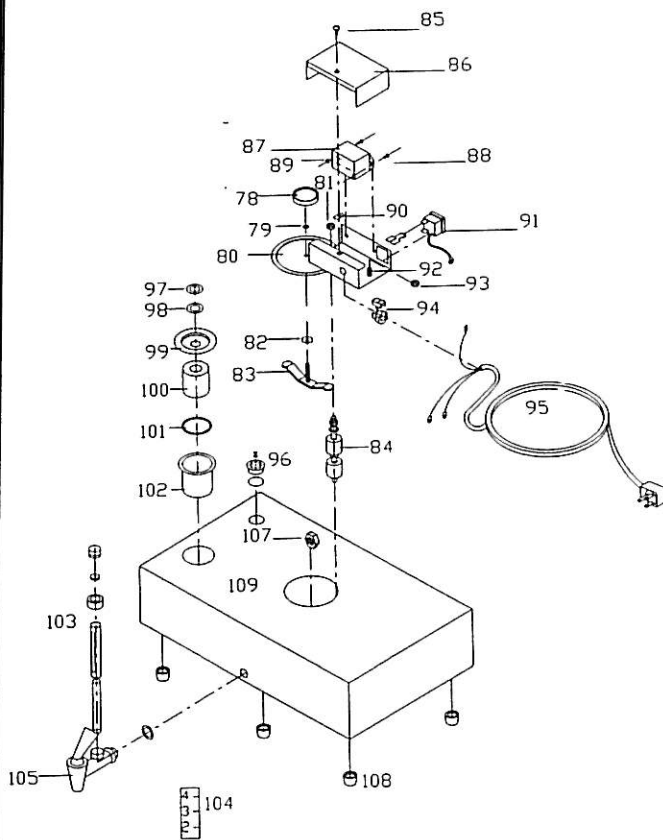




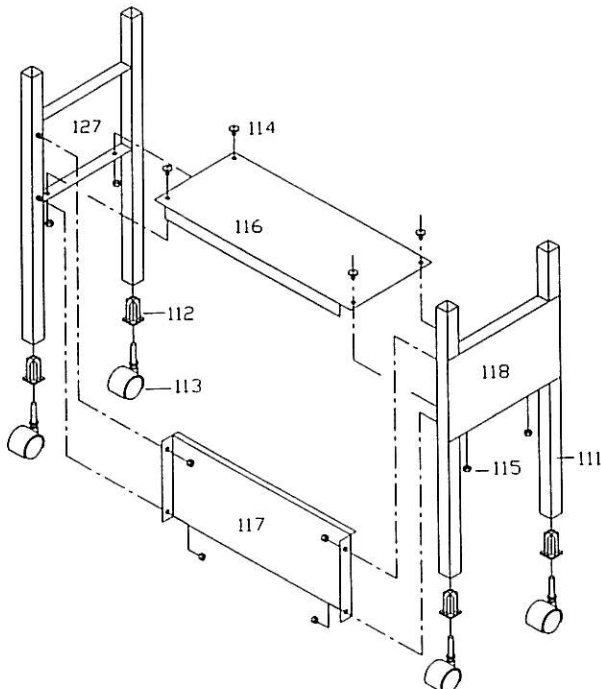
Key	100V #	120V #	240V #	Part Description
1	8002	8002	8002	Lid Knob w/o hole
2	6022	6022	6022	O-ring
3	519	519	519	Lid Disc
4	6049	6049	6049	Gasket
5	9009	9009	9009	Washer
6	9085	9085	9085	Spring
7	402	402	402	Crossbar Comp. Assy
8	409	409	409	Includes #1-#7
9	6010	6010	6010	Boiling Tank Gasket
10	9519	9519	9519	Float Ball
11	9018	9018	9018	Nut
12	513	513	513	Float rod-includes #13
13				O-ring and pivot bushing kit
14	9082	9082	9082	Actuating arm
15	9024	9024	9024	Screw
16	644	644	644	Includes #10- #15
17	9001	9001	9001	Screw- 4-40 x 5/8 RHMs
18	7202	7202	7202	Micro switch
19	9041	9041	9041	Nut
20	646	646	646	Includes #17- #19
21	511	511	511	Switch MNT
22	6005	6005	6005	Heating Element Gasket
23	400	400	400	U-clamp
24	9009	9009	9009	Washer- 1/4" flat, 11/16
25	9061	9061	9061	Nut
26	7100	7023	70101	Heater
27	633J	633	633V	Includes #22- #26
28	9530	9530	9530	3/8" Fitting
29	9510	9510	9510	Nut
30	9501	9501	9501	Condensing Coil
31	627	627	627	Includes #28- #30
32	9508	9508	9508	Drain Valve
33	87	87	87	Included in #32 and #36
34	84	84	84	Included in #32 and #36
35	518	518	518	Drain extension tube
36	611	611	611	Includes #33- #35
37	7227	7227	7227	Switch- Momentary water
38	7228	7228	7228	Switch- Heater or fan
39	9550	9550	9550	Compression Nut
40	67	67	67	Solenoid Body

Key	100V #	120V #	240V #	Part Description
41	9095	9095	9095	Screw
42				Not sold separately
43				Not sold separately
44	635	635	635V	Solenoid- Inc. 2X#39, #40- #43
45	9092	9092	9092	Fastener (push nut)
46	7010	7010	7010	Fan blade
47	7192	7092	70105	Fan Motor
48	653J	653	653V	Includes #45- #47
49	9003	9003	9003	Self-locking nut
50	3564	3564	3564	Power cord
51	7014	7014	7014	Cord restraint
52	9081A	9081A	9081A	Leg riser
53	9035	9035	9035	Screw
54	9047	9047	9047	Speed Clip
55	9029	9029	9029	Screw
56	9045	9045	9045	Nut
57	9009	9009	9009	Washer
58	9027	9027	9027	Screw
59	3008	3008	3008	Deflector plate
60	3032A	3032A	3032A	Front Plate
61	7026	7026	7026	Coil restraint
62	7026A	7026A	7026A	Included with #61
63	7230	7230	7230	Cable holder
64	3033	3033	3033	Back plate
65	7012	7012	7012	Open/Closed bushing
66	7039	7039	7039	Reset 220F
67	510	510	510	Reset Retainer
68	424A	424A	424A	Reset Retainer
69	3002	3002	3002	Top cover
70	9039	9039	9039	Cap Nut
71	9528A	9528A	9528A	Elbow- Includes #72 and #73
72	9537B	9537B	9537B	Sleeve
73	9537A	9537A	9537A	Compression nut
74	524	524	524	Water Inlet tube
75	6000	6000	6000	Boiling tank insulation (side)
76	6001	6001	6001	Boiling tank insulation (bottom)
77	9038	9038	9038	Blind nut
110	7190	N/A	N/A	Transformer
119	8070	8070	8070	Nylon Spacer

Note: You may notice that some parts on the exploded drawing are not in your machine. Since we cater to many different countries and voltage requirements, there will be some variances, but all of the parts in your machine should be on the exploded drawing.



Key	100V #	120V #	240V #	Part Description
78	8002	8002	8002	Lid Knob w/o hole
79	6022	6022	6022	Lid "O" Ring
80				Not Sold Separately
81	9048	9048	9048	Nylon 1/8" hex nut
82	9009	9009	9009	Washer- 1/4 flat 11/16
83	402	402	402	Crossbar with 1" stud
84	3568	3568	3568	Float assembly N/S
85	9029	9029	9029	Screw- 10-16x1/2
86	3063	3063	3063	Midi D float box top
87	7208J	7208	7208V	Relay
88	9095	9095	9095	Screw- 8-32x1/2
89	9003	9003	9003	Nut- 8-32 self locking
90	9047	9047	9047	Nut- J-type speed
91	4510	4510	4510	Comp assy: Acc plug mark
92	3064	3064	3064	Midi D float box bottom
93	9045	9045	9045	Nut- 1/4-20 Hex
94	7014	7014	7014	Cord restraint
95	3567	3567	3567	Power cord assy.
96	411A	411A	411A	Comp assy: vent plug
97	9099	9099	9099	Washer- 7/16" flat
98	6009	6009	6009	Gasket- Inlet
99	502	502	502	SS filter cap
100	9590-1	9590-1	9590-1	Filter W/PWI logo
101	6020	6020	6020	O-ring post filter
102	505	505	505	Filter cup-No holes
103	46	46	46	Sight Glass
104	6487	6487	6487	Decal- 4Ga tank calibrated
105	9571	9571	9571	faucet- MS-4 w/sight
106	144	144	144	Washer for MS-faucet
107	145	145	145	BLK jam nut for MS faucet
108	8011	8011	8011	Leg- appliance feet
109	3526-01	3526-01	3526-01	Tank assy



Key	100V #	120V #	240V #	Part Description
111	3521P	3521P	3521P	Painted H-frame
112	8020	8020	8020	Caster Insert
113	9050-S	9050-S	9050-S	Caster
114	9052	9052	9052	Screw
115	9044	9044	9044	Nut
116	3029P	3029P	3029P	Shelf
117	3030P	3030P	3030P	Back brace
118	3522P	3522P	3522P	Floor stand side (Right)
127	3531P	3531P	3531P	Floor stand side (left)