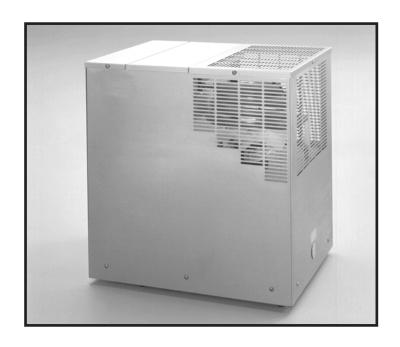
Mega-Classic[™]



Operator's Manual

Pure Water 4120 NW 44th Lincoln, NE 68524

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Table of Contents

Important Safety Information	3
Introduction	4
Record Important Information	4
Included With Your Distiller	4
Optional Accessories	5
How Your Distiller Works	6
Preparing for Installation	7
Installation	8
Connecting the Incoming Water Line	8
Connecting the Boiling Tank Drain Line & Overflow Line	10
Connect the Distilled Water Line and Faucet	11
Start-Up	12
Sterilizing	12
Post Filter Installation	12
Maintenance and Cleaning	14
Overall Maintenance Requirements	14
Cleaning the Boiling Tank	15
Changing the Post Filter	16
Assembly of the Optional Cart/Floor Stand	17
Troubleshooting	18
Electrical Schematic	21
Exploded View	22
Parts List	23

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 use an extension cord or adapters.
- DO NOT let children play with the distiller.
- DO NOT touch the top of the distiller when it is operating because it becomes very hot.
- Exercise care when removing the boiling tank lid and never remove it when the distiller is operating.
- 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 Pure Water accessories and replacement components.
- This distiller is equipped with fused pump circuitry. In the event of pump failure, check
 the pump fuse located on the panel under the switches. Replace only with a 1 amp
 Slo-Blo fuse. Never use any fuse larger than specified.
- NEVER have the unit in the Auto Drain mode if an auto drain connection is absent.
- The physiological effects of the operation of this distiller, beneficial or otherwise have not been investigated by U.L.
- Operating Pressure 30-100 PSI
- Mega-Classic produces 12 gallons per day (0.5 gallons per hour) under normal operating conditions

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

Record Important Information

The model and serial number are found on the back panel. You should record the serial number below for future references.

Date of Pu	ırchase:		
Model:	Pure	Water Mega-Classic	
Serial Nur	nber:		
Purchased	d from:		
	_		

Included With Your Distiller

In addition to your Mega Classic distiller, your box will contain the following:







- Incoming Water Hook-up Kit. Includes:
 Saddle tapping valve
 3/8"T x 1/4"T speedfit elbow
 15 feet of 1/4" food-grade tubing
- Drain Water Hook-up Kit. Includes:

Hose clamp 1/2"T x 1/2"STEM speedfit elbow 12 feet of 1/2" flexible tubing 12 feet of 1/2" high-temperature tubing

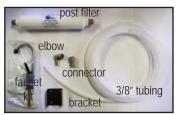
Distilled Water Hook-up Kit. Includes:

Post filter
3/8"T x 3/8"STEM speedfit elbow
Filter bracket
25 feet of 3/8" food-grade tubing
6" faucet kit
3/8"T x 1/4"F speedfit connector

- Owners Manual and Warranty Card
- Storage Tank Faucet
- Manual Drain Kit
- Power Cord







Optional Accessories

The following are optional accessories or maintenance items for the Mega-Classic. They may be purchased from your Dealer or Distributor, or directly from Pure Water.

- Mega-Classic Cart/Floor stand with castors for ease of use, cleaning and service. Also allows for proper positioning for draining the boiling and storage tanks. Stock #36996.
- Auxiliary hook-up kit for running distilled water to your refrigerator or icemaker. Stock #19009.
- Pressure tank hook-up kit to protect the pump when using with multiple dispensers. 19009B.
- Lumen[™] cleaner and descaler for cleaning the boiling tank. Stock #6603.
- Stainless steel polish. Stock #6606.
- Post-filter replacement cartridge. Stock #32513.
- Extended-reach faucet for your sink (an option from the standard 6" faucet). Stock #95304K.
- Use a Pre-Filter (Stock #19051) if you plan to draw water directly from the distilled water tank through the Distilled Water Drain.

How Your Distiller Works

The Mega-Classic is designed to produce approximately one gallon of highquality, pure distilled water every two hours, or up to twelve gallons in a 24-hour period.

The Mega-Classic is a fully automatic unit. The water level in the boiling tank and storage tank are controlled by individual floats and a set of microswitches.

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 remain off until the condition is corrected.

Once the storage tank is full of distilled water, the unit will automatically shut down and the contents of the boiling tank are drained by the automatic drain valve, thereby flushing out most of the contaminants from the boiling tank. If a drain is not available for automatic draining, the unit can be set to drain manually.

The Mega-Classic will begin distilling again once the water level in the storage tank drops to approximately 3/4 full. It continues to operate until the storage tank is full again.

The built-in demand pump allows distilled water to be delivered to a faucet, chilled/hot water dispenser, refrigerator, icemaker or other locations as desired.

illed/hot water dispenser, refrigerator, icemaker or other loc

Safety Feature

An overflow sensor is installed in the drip tray of your distiller in the unlikely event that a leak or an overflow situation occurs in your distiller. Your unit will automatically shut down when the switch senses a certain level of water in the drip tray.

Special Feature

An Hour Meter is installed on your Mega-Classic. This will allow you to track the operation and assist with scheduling maintenance.

Preparing For Installation

Before proceeding with the installation, you must determine the mode of operation (Auto Drain or Manual Drain). Pure Water recommends that your Mega-Classic be operated with the Auto Drain, but we recognize that all locations may not have an adequate drain available.

Note: The use of softened water is recommended to minimize scale build-up in the automatic drain valve.

Auto Drain Mode: This allows the boiling tank of the distiller to drain automatically when the storage tank is full or when there is a power interruption. The Mega-Classic needs to be installed in a location with an appropriate drain and drain connections, as explained in the Connecting the Boiling Tank Drain Line section on page 10 of this manual.

Manual Drain Mode: This allows the boiling tank to be drained manually. This is ideal for locations that do not have an appropriate drain or connection. The Drain Valve will not allow the unit to drain the boiling tank automatically. See Manual Drain Kit.

Other things to consider when installing your Mega-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, floor or other drain and appropriate electrical supply source. The distiller should also be located in a well ventilated room.
- The Mega-Classic should be installed at least two feet above the floor.
 This is for several reasons:
 - 1. Easier position to observe and maintain.
 - 2. Better drainage from the boiling tank when it dumps the residue water.
- Electrical requirements: Isolated 115 VAC, 15 amp circuit (220 VAC, 10 amp). Check the electrical rating on the label on the rear of the distiller.
- When connecting the tubing into the quick-connect fittings, it is critical the tubing be inserted fully! The tubing should insert into the fitting 1/2" to 3/4". Failure to do so could cause water damage. We recommend that prior to inserting the tubing, you mark the tubing 1/2" from the end being inserted into the fitting, then pull back on the tubing to verify it is attached securely. This should ensure the tubing is properly and fully installed. Also, make sure the tubing is cut squarely and is free of rough edges.

Caution: The Mega-Classic is heavy. Please use caution during installation. CAUTION: The Mega Classic weighs approximately 75 lbs. Follow these instructions to prevent injury.

- 1. Open the carton from the bottom by cutting along the dotted line with a utility knife.
- 2. Carefully slide the carton up so the distiller is in the upright position when the carton is removed.
- 3. Remove and identify all parts kits as listed on page 4.

Connecting the Incoming Water Line

Notes and Cautions:

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 automatic drain valve.

Note: The Mega-Classic comes standard with a saddle tapping valve. In some areas a saddle tapping valve may not be permitted. In such instances, contact your authorized Pure Water Distributor for other water line connection options.

Note: The use of softened water is recommended to minimize scale build-up in the boiling tank.

Caution: Never use

the hot water line for your incoming water.

To hook-up the Incoming Water Line:

- Locate the parts kit bag identified "Raw Water Hook-Up Kit".
- 2. Turn the household water supply OFF.
- 3a. For installation on copper pipes:
 - Assemble the saddle tapping valve on the cold water pipe so the outlet is in a convenient direction. See figure 1.
 - b. Tighten the screws evenly. The brackets should be parallel. Tighten firmly, but do not overtighten.

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

- d. Coil a minimum of 8 feet of tubing behind the distiller to allow it to be moved away from the wall for cleaning or service.
- e. Cut the required length of tubing to run from the saddle tapping valve to the distiller.
- f. Install the speedfit elbow onto the fitting marked "Raw Water In". Pull to test.
- g. Connect the other end of the 1/4" plastic tubing to the elbow. Pull to test.
- h. Turn the saddle tapping valve handle clockwise until you feel it is firmly seated. Note: You have now pierced the water supply line and the valve is closed.
- i. Turn the handle counterclockwise to open the valve. Turn on the household water supply and check the connections for leaks. Tighten where required.

3b. For installation on brass, steel, or PVC pipes:

Note: Make sure the water supply is turned off and drain the line. Make sure your are using the COLD water line.

- a. Drill a 3/16" hole in the pipe. Use a hand drill to avoid shock hazard.
- b. Turn the saddle tapping valve handle to expose the lance beyond the rubber gasket no more than 3/16".
- c. Assemble and place the body of the valve over the hole so the lance fits into the hole. Make sure the outlet is in a convenient direction. See figure 1.
- d. Tighten the screws evenly. The brackets should be parallel. Tighten firmly, but do not overtighten.
- e. Turn the saddle tapping valve handle clockwise to close the valve.
- f. Connect the 1/4" plastic tubing to the saddle tapping valve.
- g. Coil a minimum of 8 feet of tubing behind the distiller to allow it to be moved away from the wall for cleaning or service.
- h. Cut the required length of tubing to run from the saddle tapping valve to the distiller.
- i Install the speedfit elbow onto the fitting marked "Raw Water In". Pull to test.
- j. Connect the other end of the 1/4" plastic tubing to the elbow. Pull to test.
- k. Turn the handle counterclockwise to open the valve. Turn on the household water supply and check the connections for leaks. Tighten where required.

Caution: Never use the hot water line for your incoming water.

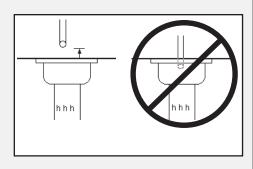
Connecting the Boiling Tank Drain Line & Overflow Drain Line

Notes and Cautions:

CAUTION: The boiling tank drain line delivers water in excess of 160° F to drain when actuated. Caution should be used when running this line to ensure safe placement of the tubing. The end of the tube should be secured to prevent movement during the draining cycle. If young children might be around the system, it is desirable to run the drain line through a large diameter piece of CPVC tubing which serves as a shield/insulator.

Note: Do not connect the drain line directly to a waste water drain, sewer or trap.

Always allow an air gap between the drain line and the waste water to conform with local codes, and to prevent the possibility of waste water being forced back into the distiller. See figure 2.



Caution: Always allow an air gap between the drain line and the waste

water drain.

Note: If you are draining into plastic pipe,

it must be rated CPVC at a minimum to handle the temperatures of boiling water. PVC is **unacceptable**.

Note: This unit, under normal operating settings, should be self draining. It is recommended that the distiller be installed with a proper drain. The location of the boiling tank drain outlet on the rear of the machine MUST be higher than the household drain. We recommend that you install your distiller on the custom designed stand available through Pure Water (part #36996). Failure to install the distiller properly could result in the unit draining hot water onto the floor. If your installation plans do not call for installing with a drain, you can manually close the drain by using the Manual Drain Kit. Pure Water cannot be responsible for any damage resulting from improper installation.

To hook-up the Boiling Tank Drain Water Line & Overflow Drain Line:

- 1. Locate the parts kit bag identified "Drain Water Line Hookup Kit".
- 2. Insert one end of the 1/2" high-temperature tubing into the 1/2" x 1/2" speedfit elbow. Press in firmly. Pull to test.
- 3. Insert the elbow into the red fitting on the back of the Mega-Classic marked "Boiling Tank Drain". Press in firmly. Pull to test.
- 4. Slide the 5/8" hose clamp onto the end of the clear, flexible 3/8" tubing. Install the tubing onto the elbow marked "Overflow Drain" on the lower rear of the unit. Tighten the hose clamp securely with a screwdriver.
- 5. Run the overflow drain line to the same location as the boiling tank drain line. Secure together if desired.
- 6. To hook up unit as manual drain operation, See Manual Drain Kit.

Connecting the Distilled Water Line and Faucet

Notes and Cautions:

Note: Always use food-grade tubing (as included with the kit) for plumbing distilled water. **NEVER** use copper, as it can leech into the distilled water.

To hook-up the Distilled Water Line:

- 1. Locate the parts kit bag identified "Distilled Water Line Kit".
- Insert the elbow into the blue fitting on the back of the unit marked "Distilled Water Out". Press in firmly. Pull to test.

Note: If you purchased a pressure tank for your Mega Classic, please take note of installation instructions included with our Pressure Tank Kit now. If no pressure tank will be used, please proceed.

To hook-up the Faucet:

- 1. Locate the faucet included in the Distilled Water Line Hook-Up Kit.
- 2. Wrap the stem of the faucet with Teflon Tape and install the faucet at the desired point of dispensing as shown in figure 3. *Note:* The channel washer and stem nut should be tightened fully and be flush to the bottom of the sink top to hold the faucet in place.
- 3. Install the 3/8" speedfit connector onto the bottom of the threaded stem of the faucet.
- 4. Determine the correct length of 3/8" tubing needed to connect the outlet of the Distiller to the faucet. Cut and route the tubing to desired locations. We recommend that you secure the 3/8" waterline to the floor joists or other structure of the house to prevent the tubing from moving during water dispensing.

Note: Leave enough extra tubing to install the filter and to move the unit for cleaning.

 Insert one end of the routed 3/8" tubing into the speedfit connector on the bottom of the faucet and the other end into the elbow labeled "Distilled Water Out" on the back of the distiller.
 Press in firmly. Pull to test.

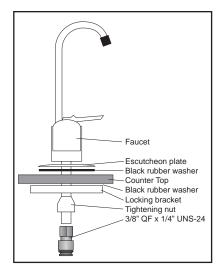


Figure 3

Caution: Never use copper tubing to run your distilled water line. It can leech into the distilled water. Caution: Do not in-

stall carbon filter until

solution is completely

drained.

Notes and Cautions:

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

Note: Open the boiling tank lid and remove the wire tie restraining the float. This is used to prevent damage during shipment.

Note: This system must be fully grounded at all times. The electrical receptacle you use must be a fully grounded, single phase, AC 115-120 volt, 15 amp minimum circuit. 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. If an extension cord must be used, it should be a 3-wire, 20-amp minimum cord.

First-Time Start-Up, Rinsing, Sterilizing, and Filter Installation

Tools/Items Needed: 5 gallons of Distilled water at room temperature

Liquid chlorine bleach Phillips screwdriver

Utility knife

Adjustable wrench

We recommend that you sterilize your Mega Classic before putting it into use in order to eliminate any microorganisms that may have collected in the storage tank.

To sterilize your Mega-Classic:

- 1. Lift the access panel from the top of the unit. See figure 4.
- 2. Remove the top right vented panel by removing the three screws with a phillips screwdriver. See figure 4.
- 3. Remove the storage tank lid and set aside.
- Pour in 2 1/2 gallons of Distilled water from the 5 gallon bottle into the storage tank.
- 5. Add 1 teaspoon of liquid bleach to the storage tank and mix well.

Caution: Do not add more than 1 teaspoon of liquid bleach into the storage tank.

Usage of safety glasses and rubber gloves is strongly recommended.

6. Replace storage tank lid and vented cover.



Figure 4

- 7. Plug power cord into the machine and plug the distiller into the power supply.
- 8. Turn the main power switch ON.
- Open the faucet for 15 to 20 seconds ensuring there is a steady stream of water, then close the faucet.

Caution: Do not consume this solution.

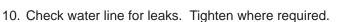




Figure 4a

Caution: If a leak is present, the pump may start automatically.

11. Allow the solution to remain in the system for 10-15 minutes.

- 12. Open the faucet and pump the remaining water from the storage tank. When the pump shuts off, press the "PUMP OVERRIDE" switch until no water is present. See figure 4a. Close the faucet.
- 13. Turn the function switch to DISTILL and the fan switch to STERILIZE. The fan will shut off. See figure 4a.
- 14. Allow to steam sterilize for 45 minutes to 1 hour.

Caution: For proper sterilization, unit must run for at least 45 minutes, but longer than 1 hour may harm the distiller.

- 15. Switch the main power to OFF. Unplug the distiller from the power supply.
- 16. Remove the top, right vented panel and the storage tank lid.
- 17. Pour the remaining 2 1/2 gallons of distilled water into the storage tank.
- 18. Replace the storage tank lid and vented panel.
- 19. Install the carbon filter.
 - a. At a location close to the Mega-Classic, install the post filter bracket using the tape installed on the bracket, or use a nail or a screw to affix to a wall.
 - b. Place the post filter into the bracket and ensure it is secure.
 - c. From the existing, distilled water line, cut the desired length of tubing to run from the back of the machine to the filter. Insert the tubing from the back of the machine to the inlet on the post filter. Insert the tubing from the faucet to the outlet of the post filter. Press in firmly. Pull to test.
- 20. Plug the unit into the power source and turn the main power switch ON.
- 21. Open faucet and pump out water from the storage tank until the pump shuts off. **DO NOT CONSUME THIS SOLUTION.**
- 22. Turn the fan switch to DISTILL. See figure 4a.

- 23. Allow distiller to operate and fill up the storage tank. Distiller will shut off automatically. This will take approximately 24 hours.
- 24. Open the faucet and allow to run for 3 to 4 minutes to flush out the system. DO NOT CONSUME. Close the faucet. The pump should shut off and the machine will start-up.

NOTE: If pump does not shut off, you may have a leak in your water line.

25. You now have approximately 5 gallons of water in the storage tank for consumption.

Maintenance and Cleaning

If operated in the recommended automatic drain mode, the Pure Water Mega-Classic is designed for low maintenance performance. The Mega-Classic has a built-in drain valve that flushes the contaminants and residue out of the boiling tank after each full tank of distilled water is produced. This minimizes the build-up of scale in the boiling tank.

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 times may be far too long for your particular area, so keep track of the average time and adjust the schedule below:

Every month*: Clean the boiling tank (see below).

* More frequent if water is hard

Every 3 months: a) **Change the post filter** (see page 16).

b) Clean the exterior. Use Stainless Steel Polish & Cleaner (stock #6606). It is available from your Dealer or Distributor or from Pure Water.

Every 6 months: a) **Sterilize** (see page 12).

Cleaning the Boiling Tank

Notes and Cautions:

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

Note: If operating in the manual drain mode, you will need to drain the boiling tank once per week.

Note: Failure to clean the interior can result in:

- a) Scale build-up causing premature heating element or drain valve failure.
- b) Reduced purity of the distilled water due to the possibilities of splash over of contaminants from the boiling tank.

To clean the boiling tank:

- 1. Open the auxiliary faucet at the sink and remove enough water to restart the unit. This will be evident because the fan will turn on.
- 2. Open the top cover and move the function switch to "Clean". The fan will stop.
- 3. Carefully feel the boiling tank lid and check the temperature. If it is hot, wait at least 30 minutes for the unit to cool.
- 4. After the unit is cool, remove the boiling tank lid.
- 5. Add Lumen[™] by following the directions on the package.
- 6. Add additional water using a jar or pitcher until the water level inside the boiling tank is above the scale line. *Caution: Do not overfill.*
- 7. Let the solution stand overnight.
- 8. After the scale has softened, turn the main power switch OFF. This will allow the boiling tank to drain. Once the boiling tank has drained, turn the main power switch ON and allow the boiling tank to refill. Turn the power OFF again, repeat this step several times to flush the boiling tank of cleaning solution and scale.

Note: If using the Manual Drain Kit, ensure that the manual drain valve is in the "open" position.

9. Return the function switch to "Distill". The unit is now ready for normal operation.

Note: If cleaning the unit without the automatic drain connections, ensure that you have a 3-gallon container or other method of catching the drain water.

Changing the Post Filter

- Turn the main power switch to "Off" and open the auxiliary faucet at the sink to bleed the line of pressure. Close the faucet.
- Have a bucket available to catch any excess water in the line. Remove the post filter by releasing the fittings on each end. Use care when removing the filter because you will need to reuse the fittings.



Figure 5

- Push in on the grey ring in the fitting, while pulling the tube out with the other hand.
- 3. Remove the fittings from each end of the post filter (see figure 5). Wrap the threads of each fitting with new Teflon tape, and install in the new filter cartridge. Tighten securely.
- 4. Connect the inlet side of the filter to the waterline.
- 5. Using a bucket, hold the filter outlet over the bucket. Turn the main power switch to "On" and allow water to flush the carbon fines out of the new filter. If the storage tank is low, depress the pump switch to "Override" to flush the filter.
- 6. Once flushed, turn the main power switch to "Off".
- 7. Reconnect the outlet side of the filter to the waterline and turn the main power switch to "On".

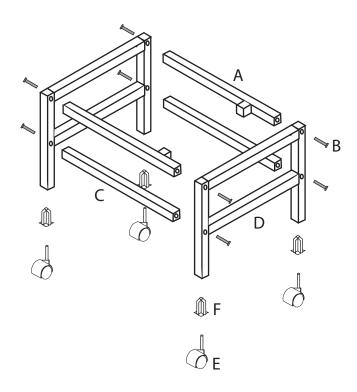
Assembly of the Optional Cart/Floor Stand

This cart is a custom fabricated accessory designed especially for the Mega-Classic. It allows for the distiller to be positioned correctly for ease of operation, draining and maintenance. It also allows for the use of a manual drain valve or faucet on your distilled water storage tank.

To assemble the Floor Stand/Cart:

- 1. Connect pieces (D) with pieces (A), and (C) with the bolts (B) provided. Piece (A) should be positioned on top as shown in the drawing.
- 2. Insert the Castor Inserts (F) into the legs of Piece (D).
- 3. Insert the Castors (E) into the legs. Make sure that the Castor Inserts and Castors are inserted completely into the legs.
- 4. Place the distiller on top of the cart, ensuring that the legs on one side of the Mega-Classic are inserted into the Leg Catchers.

<u>ITEM</u>	DESCRIPTION	<u>QTY</u> .
Α	Side Brace with Leg Catcher	2
В	Bolt, 1/4-20 x 2" Hex Head	8
С	Side Brace	2
D	End Frame, Welded	2
Е	2" Castors	4
F	Plastic Inserts for Castors	4



1

The machine will not operate at all.

Note: The water level in the storage tank must be below 3/4 full before the distiller can be restarted.

- Make sure the power cord is plugged into the wall outlet and the outlet is working properly.
- Make sure the main power switch is ON. If it is, the switch may be defective and needs to be replaced. Check with a volt/ohm meter.
- Make sure the function switch is in the "Distill" position. If it is, the switch may be
 defective and needs to be replaced. Check with a volt/ohm meter.
- Make sure the incoming water supply is turned on and is flowing into the boiling tank.
- · Check for excessive water in the drip tray. Drain if necessary.

7

The boiling tank will not fill with water automatically.

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

- If the float ball inside the boiling tank is resting against the support arm and is
 fully depressing the low-level 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 need to replace the heating element relay. Another indication of a bad heating element relay is the reset will pop.
- If the solenoid is making a buzzing noise, your feed water supply line may be clogged or you may have a defective solenoid valve. Check it with a volt/ohm meter.

3

The fan will not operate or is making excessive noise.

- If the fan is mounted properly on the storage tank, the fan blade is not loose
 around the motor shaft and and the blade spins freely when turned by hand without hitting anything, then you may have a defective fan motor. Check with a volt/
 ohm meter.
- If the fan switch is in the "On" position, you may have a defective switch. Check with a volt/ohm meter.
- If the function switch is in the "Distill" position and the heating element is not operating either, you may have a defective function switch. Check with a volt/ohm meter.



The distiller fills to normal operating level, but the heating element will not heat or bring water to a boil.

- If the 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, then you may have a defective high-level boiling tank microswitch.
 Check with a volt/ohm meter.
- If the function switch is in the "Distill" position, the fan is not operating, you may have a defective function switch. Check with a volt/ohm meter.

5

The boiling tank overflows with water.

Note: If your machine is new, make sure you have removed the wire tie used to restrain the float during transit.

- If the float actuating arm is depressing the high-level microswitches (the bottom ones) 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 microswitches check out ok, and the heating element and fan come on, then you need to replace the heating element relay. Check with a volt/ohm meter.
- If the microswitches and heating element relay check out ok, then you may have
 a defective solenoid. Turn the main power switch to "Off". If water continues to
 flow into the boiling tank, then you need to replace the solenoid.
- If the float is not moving freely, you may need to install a new bushing and o-ring float repair kit.
- If the float ball is full of water, replace the float ball.

6

Machine does not shut off when storage tank is full.

- If the storage tank high-level microswitch is fully depressed, then you may have a defective microswitch. Depress both the boiling tank and storage tank high-level microswitches. If the unit does not shut down, remove one wire from the boiling tank microswitch. If the unit shuts down, replace the boiling tank microswitch. If the machine does shut down, leave the wire off and remove one wire from the storage tank high-level microswitch. If the unit shuts down, replace the storage tank microswitch.
- If the unit does not shut down when removing the wires from testing the boiling tank and storage tank microswitch wires, then you need to replace the main control relay.

7

The boiling tank automatic drain valve does not open or shut.

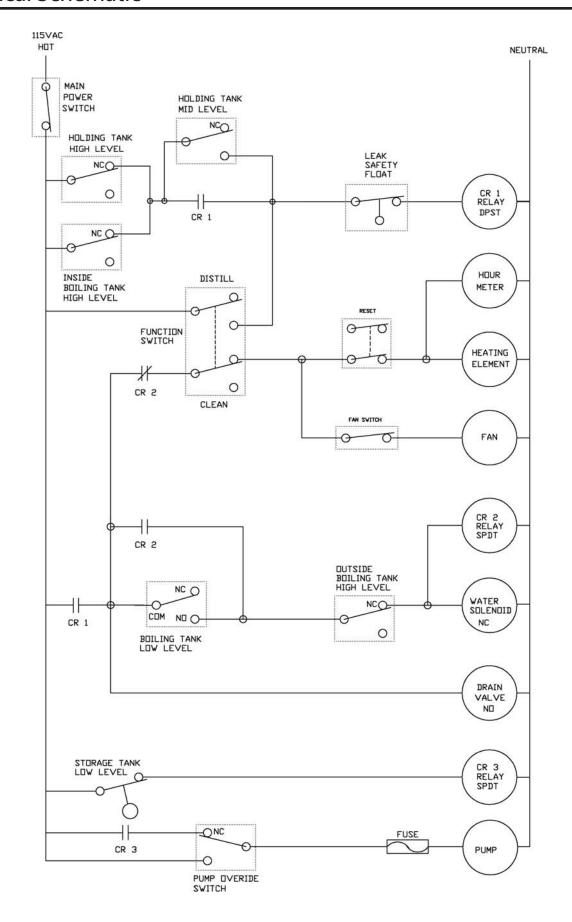
- If water continues to drain during operation of the distiller, you may have a defective drain valve. Heavy scale may be preventing the drain valve from closing completely. Clean the boiling tank or replace the drain valve.
- If there is no water coming from the drain valve or it is draining slowly, you may have scale build-up in the drain valve or a defective drain valve. Clean or replace the drain valve.

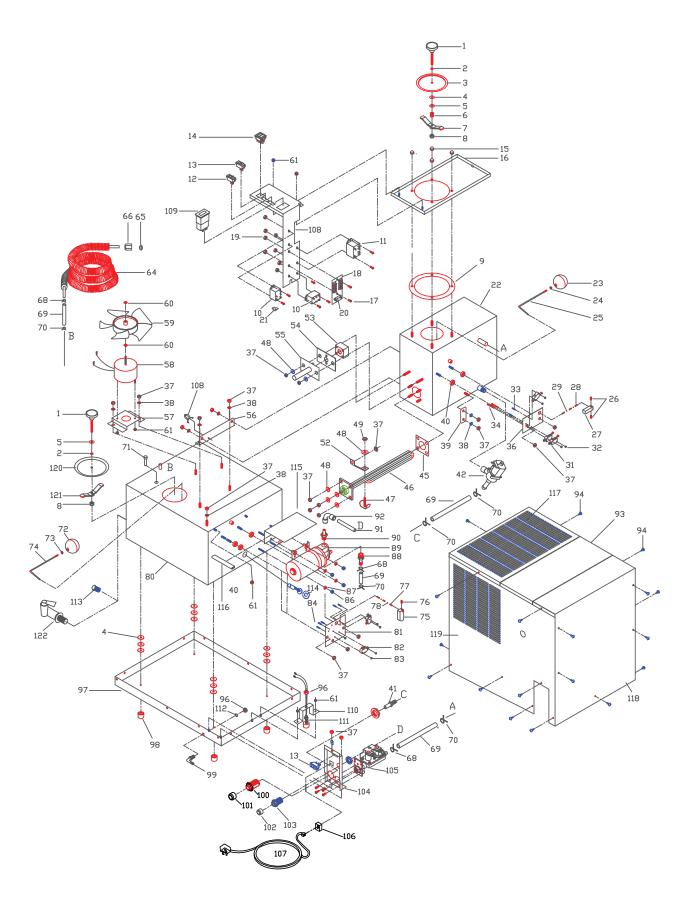
The demand pump does not work properly or not at all.

8

Note: The storage tank must be at least 1/4 full for the pump to operate.

- If the unit is plugged in and the main power switch is "On", you may have a blown fuse, defective pump switch, defective pressure switch or defective pump. Check with a volt/ohm meter.
- If pump cycles on and off, but no water is delivered or it will not shut off after you close the faucet or cycles on and off when not in use, you may have leaks in your water line, a defective pressure switch, or defective pump.
- If pump does not deliver water to the faucet at a steady pressure, you may have a defective pump.





page 22 Mega-Classic Owners

Parts Listing

Key #120V P/N 240V P/N Description

		Lid knob w/stud
2 6022		
3 519	519	Lid disc
4 6049	6049	Gasket
5 9009	9009	Flat washer, 1/4'
6 9085	9085	Lid spring
		Lid crossbar w/nut
8224-0003	224-0003	Locknut, 1/4-20
		Lid Assembly (#1-#8)
		Boiling tank gasket
		Relay, heating element
		Relay, storage tank
		Momentary water switch (2 each)
		ON/OFF switch (2 each)
14 7221	7221	Function switch
		Cap Nut, 1/4-20
		Tray, boiling tank, studded
17 9095	9095	Screw, 8-32 x 1/2"
18 7215	7215	Terminal etrin
19 9043		
		amp slo-blo fuse
		2 Boiling tank, studded
23 9519		
24 9018		
25 514		
26 9024		
27 9098		
28 9080		
29 6021		
		Float Kit (#23-#29)
31 7201		
32 9041		
		Screw, 4-40 x 5/8"
		Screw, 4-40 x 1-1/8"
		Microswitch Kit (#31-#33)
		Boiling tank switch plate
37 9045	9045	Hex nut, 1/4-20
38 9032	9032	Lock washer, 1/4"
39 32006	32006	Boiling tank mounting bracket
40 8070	8070	Nylon spacer
41 9633	9633	Adaptor, STEM to BARB
		Automatic drain valve, NC
43 7230	7230	Cable holder, w/latch
44 9046	9046	Star washer, #10
45 6005	6005	Heating element gasket
46 7070	70100	Heating element
		U-clamp w/stud
		Flat washer, 1/4"
49 9061		
		Heating Element Kit (#45-#49)
		U-Clamp Kit (#47-#49)
52 508		
53 7069		
		Reset retainer board
		Plate, reset retainer, studded
		Boiling tank mounting angle
		Fan motor mounting bracket
58 32504		
59 7010		
60 9092		
61 9003		
		Fan & Motor Kit (#58-#61)
63 639	639	Fan Blade Kit (#59-#60)
		Condensing coil
65 9530	9530	Compression ring, 3/8"

Key # 120V P/N 240V P/N Description

66 9510 9510 Compression nut, 3/8" 67* 626 626 Condensing Coil Kit (#64-#66) 68 9922 Hose clamp, 19/32" 69 9541 Silicone tubing 70 9921 Hose clamp, 5/8" 71 8014 8014 Air Filter 72 9519 9519 Float ball 73 9018 9018 Hex nut, 6-32 74 525 525 Float rod 75 9091 9091 Storage tank actuating arm
68 9922 Hose clamp, 19/32" 69 9541 Silicone tubing 70 9921 Hose clamp, 5/8" 71 8014 8014 Air Filter 72 9519 9519 Float ball 73 9018 9018 Hex nut, 6-32 74 525 525 Float rod 75 9091 Storage tank actuating arm
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70 9921 9921 Hose clamp, 5/8" 71 8014 8014 Air Filter 72 9519 Float ball 73 9018 9018 Hex nut, 6-32 74 525 525 Float rod 75 9091 Storage tank actuating arm
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72 9519 9519 Float ball 73 9018 9018 Hex nut, 6-32 74 525 525 Float rod 75 9091 Storage tank actuating arm
73 9018 9018 Hex nut, 6-32 74 525 525 Float rod 75 9091 9091 Storage tank actuating arm
74 525 525 Float rod 75 9091 Storage tank actuating arm
75 9091 9091 Storage tank actuating arm
76 9024 9024 Set screw
77 9080 Float bushing
78 6021 6021 Float o-ring
79* 655655Float Kit (#72-#79)
80 36519 Storage tank, studded
81 32022 Switch mounting plate
82 7209 Microswitch
83 9041 9041 Hex nut, 4-40
84 9001 9001 Screw, 4-40 x 5/8"
85* 660Microswitch Kit (#82-#84)
86 9070 9070 Lock nut, 10-24
87 9094 9094 Flat washer, #10
88 95103 95103 Nylon hose BARB elbow
89 3250532505VDemand pump
90 96069606 Stem adaptor
90 9000 9000 Sterri adaptor
91 9577 9577 3/8" tubing
92 9615 9615 Speedfit union elbow, 3/8"
93 32033 Cladding access door
94 9029 Sheet metal screw
96 9048 9048 Nut, hex, 1/8"
97 32037W-0232037W-02 Stainless steel tray, studded
98 8011 8011 Appliance feet
99 95504 Nylon elbow
100 9611 9611 Bulkhead union, 1/2"
101 9617 9617 Red collet cover, 1/2"
102 9618 9618 Blue collet cover, 3/8"
103 96129612 Bulkhead union, 3/8"
104 3603636036 Pan, connection, SS
105 72197219V Solenoid
106 7275 TEC Female connector
107 7276 7276 IEC Power cord
108 32035A32035APlate, switch, electrical
109 .219-0227 219-0227 Hour meter
110 3202932029 Bracket, safety float
111213-0037 213-0037 Switch, level, safety
112 9627A9627AO-ring, 3/8"ID x 9/19"ID
113 96249624 Plug, 3/8"-16, NPT, SS hex head
114 .110-9057 110-9057Float, level control
115 3203932039Pump cover bracket
116 6070 Grommet protector strip
117 36034 36034 Top Cladding w/slots
118 36031 36031 Cladding, right side panel
119 3603236032 Cladding, wrap around
120 548 548 Lid, storage tank
121 . 402C-01 402C-01Lid Crossbar, w/nut, storage tanl
122 95315 95315 Faucet, Black, lock open
* 410 Storage Tank Lid Assembly
** 32050
** 3205132051 Boiling tank bottom insulation

^{*} parts kit ** not shown on exploded view