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# STERISIL® AC SYSTEM

## INSTALLATION AND OPERATING MANUAL

# TABLE OF CONTENTS

Introduction	3
Sterisil® Ac Features	4
Installation Details	5
Installation Instructions	6
Maintenance	11
Troubleshooting and FAQ	13

## NEED HELP OR HAVE QUESTIONS?

Our technical support staff is available and ready to help. Please call, email, or visit us online for additional support.



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# INTRODUCTION

The ease of use and confidence that Sterisil® has brought to dental unit water line treatment now comes to distilled and deionized water. Engineered for use with your office's table top autoclaves and instrument washers, the Sterisil® Ac produces distilled quality water with <10 ppm Total Dissolved Solids (TDS). Audible and visual alarms make cartridge replacement worry-free and the Sterisil® Ac requires only minutes of maintenance. Its space-saving, compact design allows for easy installation even under sinks.

This manual will show you how to install and maintain your new Sterisil® Ac unit and answer a few frequently asked questions that you may have. For additional support, please contact Sterisil® at **(719) 622-7200** or email technical support at [support@sterisil.com](mailto:support@sterisil.com).





## **STERISIL® AC FEATURES**

### **SIMPLE**

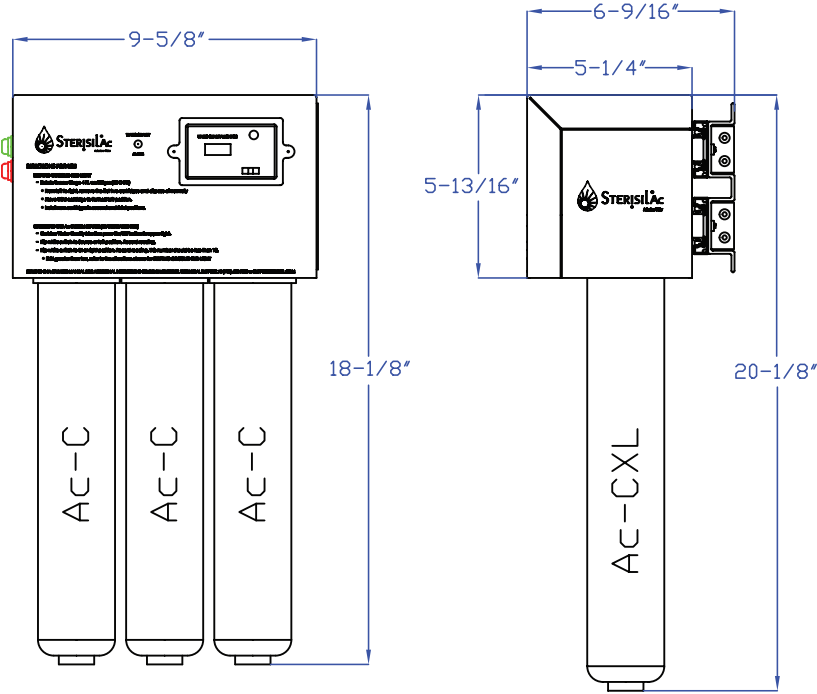
- Compact design for easy sterilization center or under-sink installation.
- Optional shorter cartridges for even smaller spaces.
- Automatic shut off valves for easy, spill-free cartridge replacement.
- Optional filler wand for easy tabletop autoclave filling.
- Sliding mount for easy access.
- Metal enclosure protects internal components.

### **EFFECTIVE**

- Produces distilled quality water with <10 ppm TDS for use with table top autoclaves.
- Water Quality Monitor samples the water purity in real-time.
- Audible and visual alarms alert you when cartridges need to be replaced.
- Dispensing faucet with LED monitoring light.
- Backup filters supply your office with water for your table top autoclaves even after audible and visual alarms trigger.
- Designed for offices with source water containing <150 ppm TDS.
- Sterisil® ISO 13485 certification ensures that your new Sterisil® Ac unit has been tested for performance and reliability.



INSTALLATION DETAILS



STERISIL® AC SYSTEM SPECIFICATIONS	
Pressure Min/Max	40 PSI/125 PSI
Temp. Min/Max	45°F/ 100°F
Tubing (PEX, PUR)	1/4" OD
Electrical Outlets	3 110V AC, 3 AMP
Fittings	Quick Connects

UNPACKING

Carefully unpack the contents of the box. The box will include the Sterisil® Ac System, Installation Manual, Warranty Registration Card, large bag, small bag, a white table top faucet and 1/4" tubing

Check to make certain there was no damage during shipment. If damage is evident, contact the shipping company immediately.

TOOLS

Required tools vary but typically include a sharp razor, knife, or tube cutter, measuring tape, drill, assorted bits and screws, screwdrivers, wrenches, level, and clean rags.

LOCATION

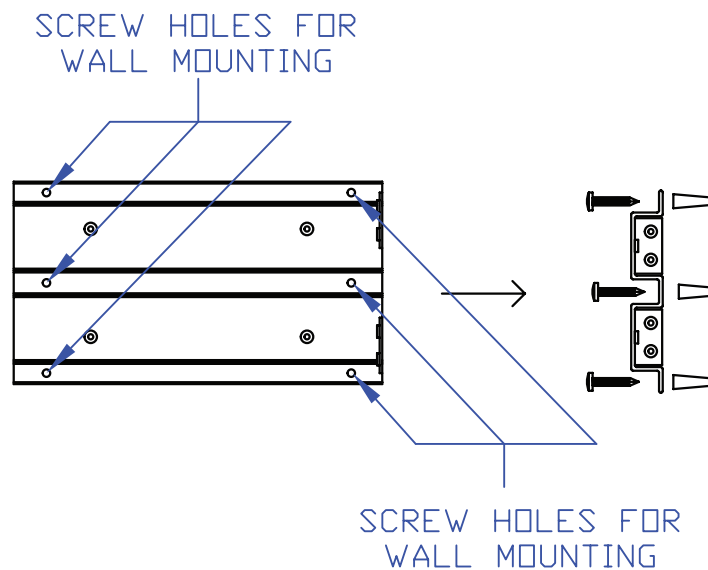
Generally, the Ac System is installed centrally within the dental office in the equipment room, sterilization center, hallway, or laboratory. If the hinged mounting bracket is selected, the typical mounting location would be on the wall near the source water supply. If the sliding bracket is selected, the typical mounting location is under a sink near the source water supply.

TUBING & CONNECTIONS

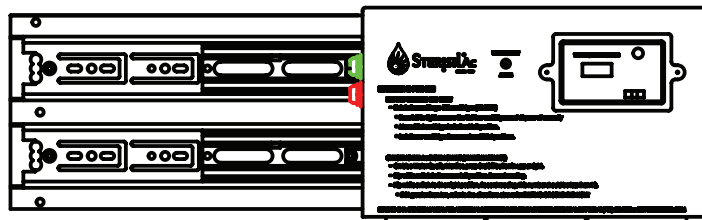
Copper piping should not be used anywhere downstream from the system. However, copper piping may be used from the source water to the System itself. Make sure cuts on the tubing are square and clean to prevent leaks.

## INSTALLATION INSTRUCTIONS

1. Unpack box and take note of the Sterisil® Ac specifications and dimensions before selecting a desired installation site.
2. **Prepare installation site.**
  - a. Ensure there is one 110 V AC electrical outlet within 6 ft and a water supply line within 10 ft of the desired installation site.
3. **Install the mounting plate.**
  - a. Test the fit of the mounting plate at the desired location by placing it on the wall.
  - b. Ensure that the mounting plate is level. Then mark each of the holes indicated below with a pen or pencil.

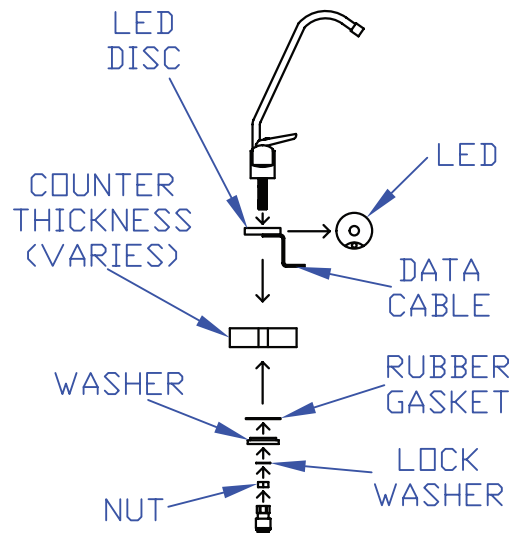


- c. Using a ¼" drill bit, drill holes at the points you marked in step b.
  - d. Insert the drywall anchors into the holes and gently hammer them all the way in.
  - e. Place the mounting plate over the holes and using the Phillips #10 x 1" sheet metal screws, screw the mounting plate into position.
4. Remove the Ac unit from the packaging and slide it onto the rails on the mounting plate as shown below. (Do not install cartridges yet.)



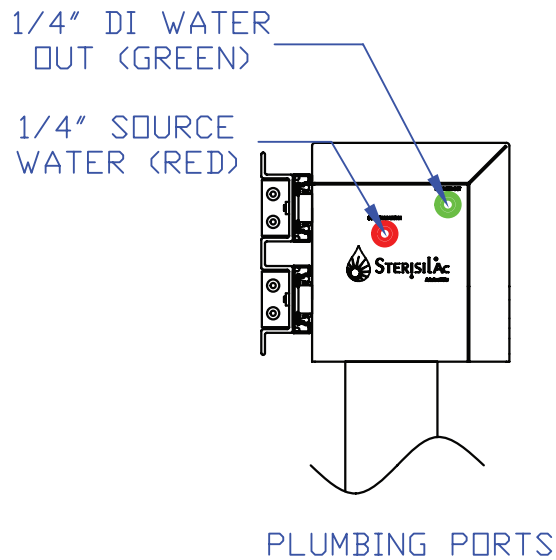
5. Install dispensing faucet.

- a. Drill a 5/8" hole, ensuring holes are on sink surface at the desired location, and that LED data wires fit without pinching during installation.
- b. Insert the faucet assembly into the hole as shown.



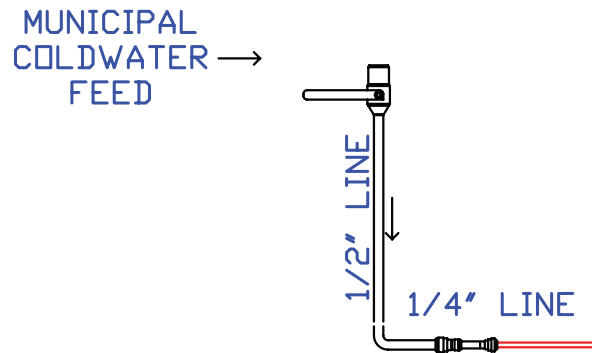
- c. Tighten faucet in place and install quick connect fitting.

6. Establish Sterisil® Ac plumbing connections.

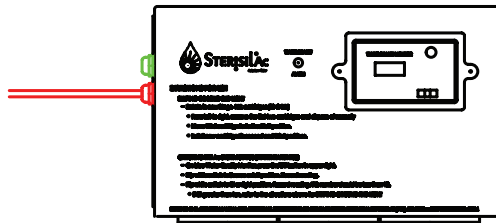


- a. Ensure that the municipal cold water supply line to your sink is turned off. From the municipal cold water supply line, install a tee valve for under-sink installation (supplied by customer) and reduce to 1/4" via either quick connect fitting or compression fitting.

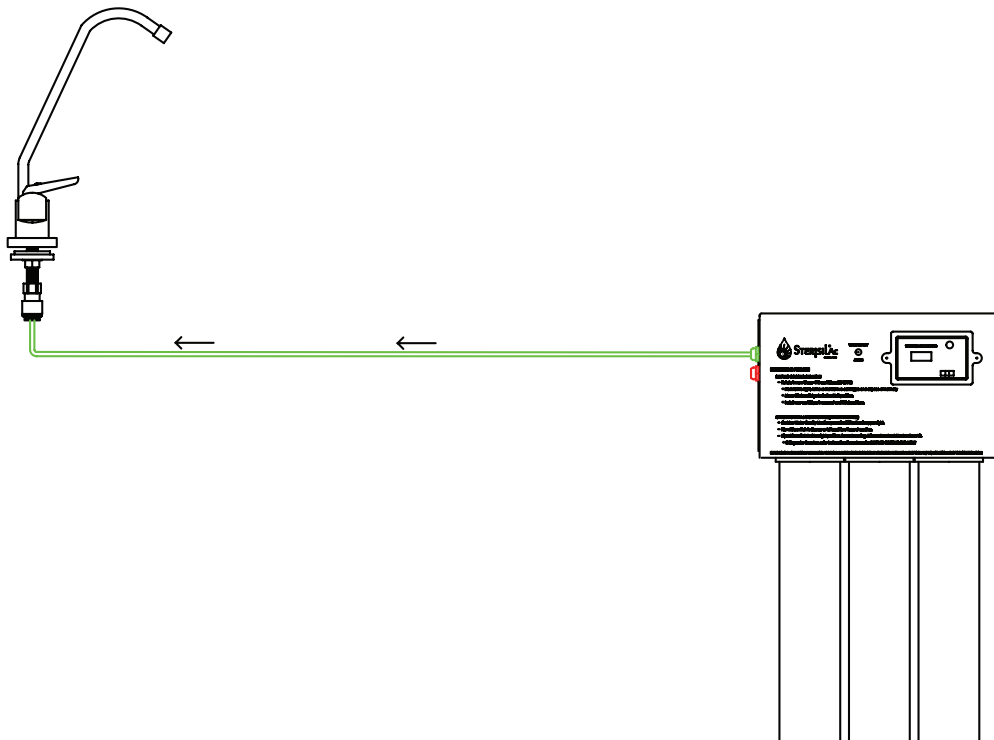
- b. Insert the white ¼" (red in the diagram below) PEX tubing supplied with your Ac unit into the fitting and ensure a secure fit.



- c. Run the ¼" white tubing from the municipal cold water supply to the Ac unit and cut the tubing, leaving enough slack to allow the system to slide out from the cabinet. Firmly insert the tubing into the red port labeled "SOURCE WATER IN" on the side of the unit.



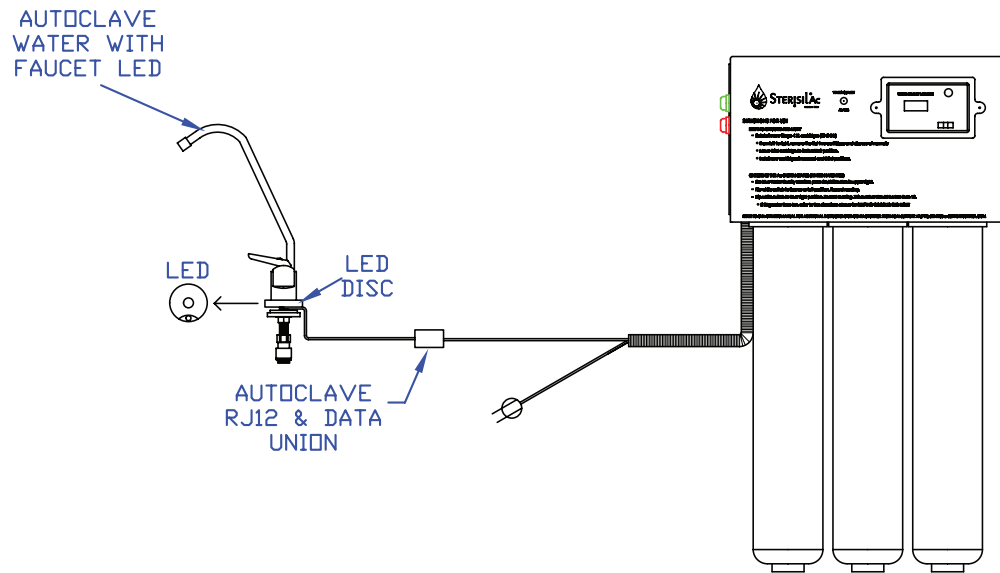
- d. Run another length of ¼" white tubing to the quick connect fitting on the dispensing faucet. Cut the tubing leaving enough slack to allow the system to slide out from the cabinet.



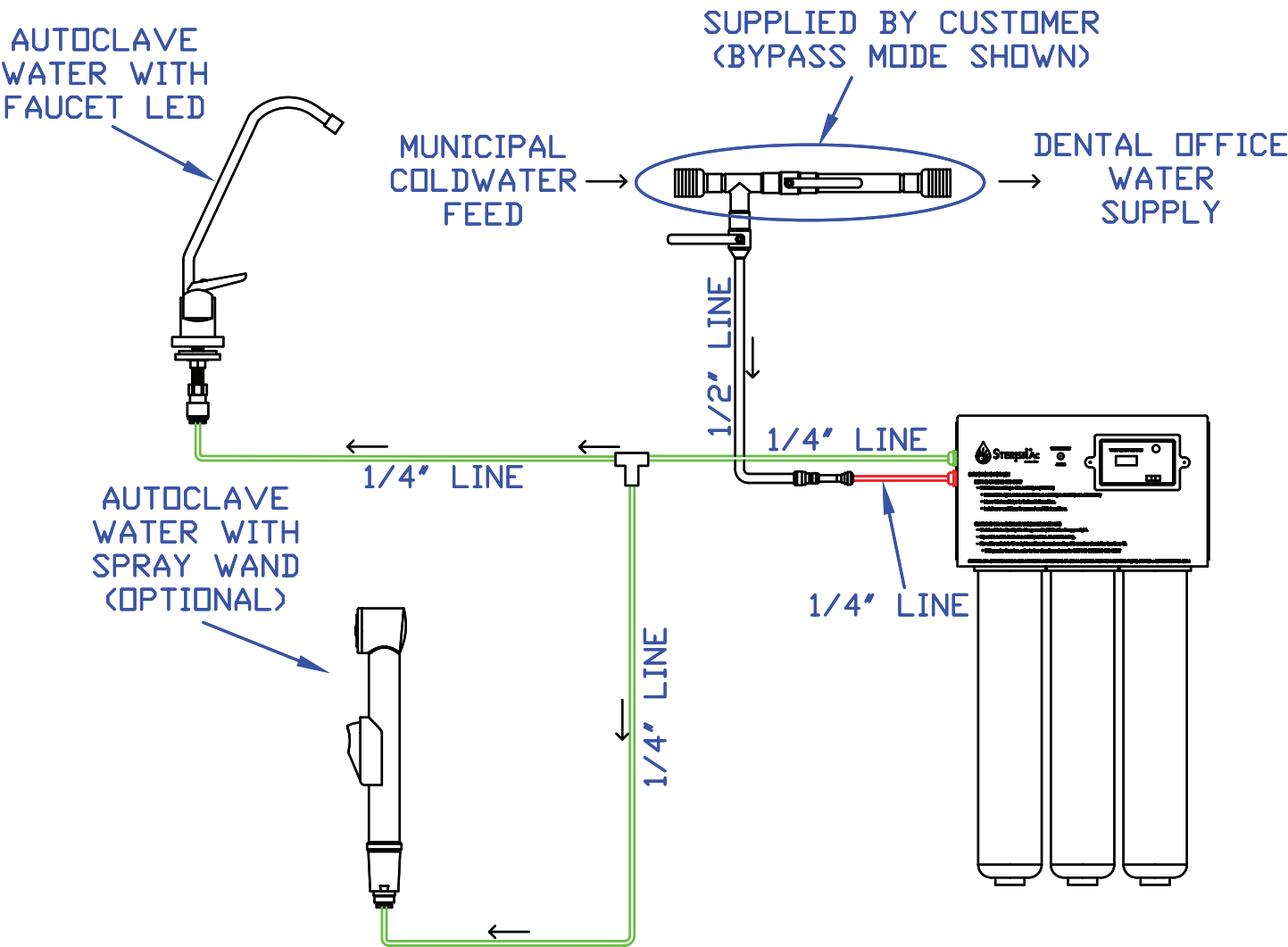


7. Connect electrical and data lines.

- a. Connect the black power cord to the 110V AC power outlet.  
NOTE: The red LED on the faceplate of the unit may turn on and the alarm may sound after initially plugging in the unit. If so, unplug the power cord and wait to plug in until after cartridges are installed and water is turned on to the unit.
- b. Connect the RJ12 data line from the Ac unit to the data union included with the unit. Connect the other end of the data union to the RJ12 data line from the faucet.



AC SYSTEM DIAGRAM



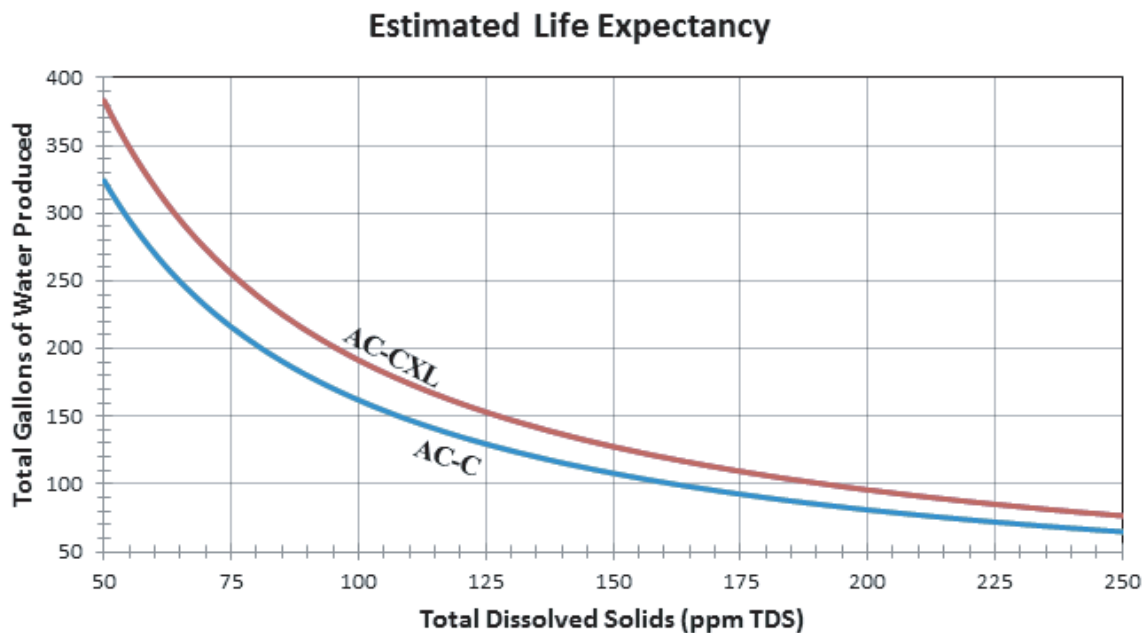
## MAINTENANCE

The Sterisil® Ac is equipped with water quality monitoring as well as audible and visual alarms to alert you when it is time to replace the cartridges. Use the chart below to estimate cartridge life expectancy based on your source water quality.

### ESTIMATING THE LIFE EXPECTANCY OF YOUR STERISIL® AC CARTRIDGES

Your Sterisil Ac unit is shipped standard with the 14 inch Ac-CXL cartridges. If there are size limitations in your desired installation site and the Ac-CXL cartridges do not fit, Sterisil® also offers shorter, 12 inch cartridges (part no. Ac-C).

To estimate the life expectancy of your cartridges, determine your source water TDS reading. To do this, turn on the blue water quality monitor on the faceplate of the Sterisil® Ac by pressing the silver on/off button in the upper right hand corner of the monitor. Ensure that the white slider is to the left next to **Source**. Record the number now displayed in the LCD window (NOTE: this number may change while you are attempting to take the reading, simply record the highest number that it displays). On the horizontal axis of the graph below, locate your Source TDS reading and trace a line vertically until it touches the red, Ac-CXL curve (or blue, Ac-C curve if you are using the space saving Ac-C cartridges). Next, trace a line horizontally to the left until it meets the vertical axis. This axis denotes the estimated number of gallons of deionized water your Sterisil® Ac will produce before cartridge replacement is necessary.

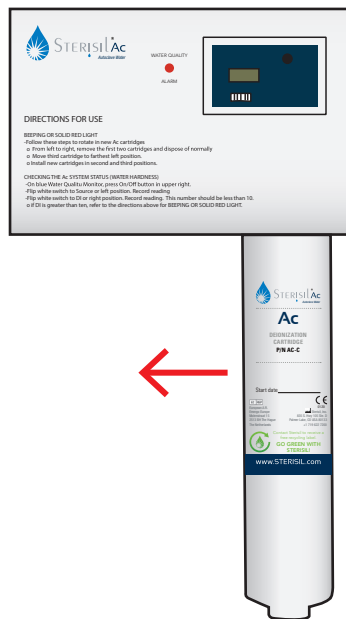


# MAINTENANCE

## REPLACING YOUR AC CARTRIDGES

After the Ac has notified you that a cartridge replacement is necessary either by the Water Quality Alarm LED light on the faceplate turning solid red and/or after hearing the Ac's audible alarm (beeping), **DO NOT** replace all three AC-CXL or AC-C cartridge at once (unless directed to do so by a Sterisil® certified technician). Follow these steps to replace your Ac cartridges:

1. From left to right, remove the first two cartridges and dispose of them normally.
2. Move the remaining cartridge from the third cartridge position to the first cartridge position.
3. Install two new Ac cartridges in the second and third cartridge positions.





## TROUBLESHOOTING AND FAQ

### THE WATER QUALITY ALARM ON THE Ac FACEPLATE IS SOLID RED

This indicates that a cartridge replacement is necessary. Follow the steps under Replacing Your Ac Cartridges on page 12 of this manual or on the faceplate of your Ac unit. If this is occurring much more frequently than estimated by the graph on page 11, please contact Sterisil® Technical Support at (719) 622-7200 or email at [support@sterisil.com](mailto:support@sterisil.com).

### THE Ac UNIT IS BEEPING AND WILL NOT STOP

This indicates that a cartridge replacement is necessary. Follow the steps under Replacing Your Ac Cartridges on page 12 of this manual or on the faceplate of your Ac unit. If this is occurring much more frequently than estimated by the graph on page 11, please contact Sterisil® Technical Support at (719) 622-7200 or email at [support@sterisil.com](mailto:support@sterisil.com).

### THE Ac UNIT IS NOT PRODUCING ANY WATER

Ensure that the cold water municipal supply line to the Ac unit is turned on. If the cold water supply is not turned on, turn it on and check for water again. If the cold water supply is on, continue troubleshooting:

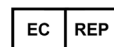
1. Taking a new, unused Ac-CXL (or Ac-C) cartridge, remove the first cartridge and screw the unused cartridge in to the first position. Check for water flow. If water flow returns, dispose of the used cartridge and follow the steps under Replacing Your Ac Cartridges on page 12 of this manual. If water flow does not return, continue to step 2.
2. Repeat step one for the second and third cartridge positions. If flow still does not return, contact Sterisil® Technical Support at (719) 622-7200 or email at [support@sterisil.com](mailto:support@sterisil.com).

### THE WATER FROM THE Ac SMELLS LIKE FISH

One or more of your Ac cartridges is well beyond its expiration. Follow the steps under Replacing Your Ac Cartridges on page 12 of this manual or on the faceplate of your Ac unit. Ensure that your Ac unit is plugged in to ensure that the audible and visual alarms are operating correctly. If this is occurring much more frequently than estimated by the graph on page 12, please contact Sterisil technical support.

We know that you, your patients and staff will be pleased with this Unit!

For questions, please contact us at:  
Online at [Sterisil.com](http://Sterisil.com)



EMERGO EUROPE  
Prinsessegracht 20  
2514 AP The Hague  
The Netherlands  
GP6002.B

GP6002.B