

General

Additional Parts Required

This kit includes the URG supplied equipment only.

Proper installation of this kit requires the separate purchase of the following materials:

- 18.2MΩ or Higher Quality Deionized Water (DI Water)
- Triton X-100 Cleaning Solution
- 1.0L Volumetric Flask
- Sonicator
- Beaker (2)
- Rack
- Thermometer
- Forceps
- Sterile Re-sealable Polyethylene Bag
- Powder Free Gloves

Kit Contents: See Service Parts Table

Preparation

1. Measure 10mL of Triton X-100 solution and pour it into a clean 1.0L volumetric flask containing deionized water. The Triton X-100 will form a gelatinous globule in the water.
2. Fill the flask to the mark with deionized water. Prepare a sonicator with water heated to 60-70°C, insert the closed flask into the sonicator, and turn it on.
3. Monitor the flask, removing occasionally to shake in order to speed up the dissolution of the Triton X-100.
4. Ensure that all of the Triton X-100 has gone into the solution and then remove the flask from the sonicator.
5. Label the flask with a description of the contents and the date of the preparation.

Cleaning

6. Place the steam generator cyclone and coil into a small beaker.
7. Add enough Triton X-100 solution to fully submerge the glassware.
8. Fill the sonicator to the designated fill line with deionized water.



9. Place the small beaker of glassware into a larger beaker. Fill the large beaker with deionized water so that the fill lines of both beakers are equal.
10. Put the beakers into the rack and submerge into the sonicator.



NOTE: Make sure that the beakers are not submerged too far. The deionized water in the sonicator should not get into the beakers when it's operating.

CAUTION: The beakers should NOT make contact with sides or the bottom of the sonicator.

11. Set temperature control on the sonicator to 70°C and allow sufficient time for the water temperature to reach the set point. Use a thermometer or infrared detection device to verify the final temperature.
12. Turn on the sonicator power and allow the cleaning process to continue for 30-45 minutes duration.
13. After the sonicator stops, remove the small beaker and decant the cleaning solution.
14. Using clean forceps, carefully remove the glassware from the beaker and rinse thoroughly with deionized water.
15. Place the rinsed glassware into another clean glass beaker. Fill with deionized water and allow the items to soak overnight.
16. Perform a final rinse of the cleaned glassware with deionized water, and then allow them to dry in a HEPA filtered, forced air drying chamber.
17. Store the glass pieces individually in clean polyethylene bags.

Service Parts Table

Kit	Installation Kit	Description (Quantity)	Part Number
		Steam Generator Glassware for AIM	URG-9000-04
		Vigreux Condenser for AIM	URG-9000-04D