What is claimed is:

1. A method of sanitizing an electrodeionization (EDI) device, the method comprising:

providing an EDI device comprising an internal chamber comprising: an anode compartment adjacent a first end of the internal chamber, a cathode compartment adjacent an opposite second end of the internal chamber, and a plurality of ionic membranes positioned between the anode and the cathode compartments;

stopping a fluid supply to the internal chamber;

supplying an electrical power across the anode and the cathode compartments until a temperature within the internal chamber is within a sanitization range; and

controlling the electrical power to maintain the temperature within the internal chamber within a sanitization range;

wherein the electrical power sanitizes the EDI device while the fluid supply is reduced.

2. The method of claim 1, wherein the step of controlling the electrical power to maintain the temperature further comprises determining whether a sanitization hold is complete.

3. The method of claim 2 further comprising the step of flushing the internal chamber after the sanitization hold is complete.

4. The method of claim 1, wherein the step of supplying the electrical power results in a temperature rise within the internal chamber of from about 120 degrees Fahrenheit to about 212 degrees Fahrenheit.

5. The method of claim 2, wherein an interval for the sanitization hold comprises a range of from about 15 minutes to about six hours.

6. The method of claim 1, wherein the electrical power comprises the form of current flowing into the internal chamber.

7. The method of claim 6, wherein a current density comprises a range of up to about 20 milliamperes per squared centimeter.

8. The method of claim 1 further comprising the step of a using a temperature device to determine the temperature within the internal chamber.

9. The method of claim 8, wherein the temperature device is located within the internal chamber; and determines the temperature within the internal chamber.

10. The method of claim 8, wherein the temperature device measures a temperature of the fluid within the internal chamber.

11. The method of claim 8, wherein the temperature device is located external to the internal chamber; and determines a skin temperature located on an external surface of the EDI device.

12. The method of claim 6 further comprising monitoring a voltage of the EDI device to determine if the internal chamber is within the sanitization range.

13. The method of claim 1 further comprising recirculating the fluid within the chamber.

14. The method of claim 1 further comprising the step of providing a water purification system configured for producing deionized water, the water purification system comprising at least one of: a micro-filtration apparatus, an activated carbon tower, or a reverse osmosis apparatus; wherein the EDI device is integrated within the water purification system.

15. A method of sanitizing an electrodeionization (EDI) device associated with a deionized water producing system, the method comprising:

providing a water purification system configured for producing deionized water, the water purification system comprising at least one of a micro-filtration apparatus, an activated carbon tower, or a reverse osmosis apparatus;

providing an EDI device, integrated with the water purification system, wherein the EDI device comprises an internal chamber comprising: an anode compartment

adjacent a first end of the internal chamber, a cathode compartment adjacent an opposite second end of the internal chamber, and a plurality of ionic membranes positioned between the anode and the cathode compartments;

modulating an isolation valve to stop a fluid supply to the internal chamber;

supplying an electrical power to the internal chamber to create a temperature rise with the internal chamber;

determining whether a temperature within the internal chamber is within a sanitization range; and

maintaining the temperature within the sanitization range;

wherein the electrical power sanitizes the EDI device while the fluid supply to the internal chamber is substantially reduced.

16. The method of claim 15 further comprising the step of determining whether a sanitization hold is complete.

17. The method of claim 16 further comprising the step of flushing the internal chamber after the sanitization hold is complete.

18. The method of claim 15 further comprising the step of utilizing the EDI device to sanitize the water purification system.

19. The method of claim 18 further comprising the steps of:

a. modulating the isolation valve to allow the fluid supply to flow into the internal chamber;

b. discharging the fluid from the internal chamber; and

c. recirculating the fluid through the water purification system.

20. The method of claim 19 further comprising providing a booster heater to assist with heating and maintaining the fluid supply to within the sanitization range.