

E220(evo) Focused-ultrasonicator Instrument Maintenance

NaDCC Instrument Cleaning Protocol

Purpose

An instrument cleaning procedure should be performed monthly to prevent biological growth in the water bath, degas, and water conditioning system (WCS).

Caution

Wear protective gloves when handling NaDCC tablets.

Use the 'Home,' 'Service Position,' and 'Degas Pump On/Off,' buttons on the Run Screen, as instructed below:

Instructions

1. Turn off the chiller.
2. Turn off the WCS. Disconnect hoses from the front of the water tank.
3. Click 'Service Position.' The transducer assembly raises out of the tank and the degas pump turns off.
4. Empty, rinse, and fill tank with DI water to 10 on "Fill" side of label. Place tank back in instrument.
5. Dissolve (2) NaDCC 13.1 G tablets in the water tank.
6. Reconnect hoses to the front of the water tank and turn on the WCS.
7. Click 'Home.' The transducer assembly lowers into the tank and the degas pump turns on.
8. Operate the WCS and degas pump for approximately 5 minutes.
9. Turn off the WCS and disconnect hoses from the front of the tank.
10. Click 'Service Position.' The transducer assembly raises out of the tank and the degas pump turns off.
11. Empty, rinse, and place the empty tank back in instrument.
12. Reconnect hoses to the front of the tank and turn on the WCS. The solution is purged from the WCS and hoses.
13. Click 'Home.' The transducer assembly lowers into the tank. Click 'Degas On/Off.' The degas pump turns on and the solution is purged from the degas pump and hoses. The degas pump automatically turns off.
14. Turn off the WCS and disconnect hoses from the front of the tank.
15. Click 'Service Position.' The transducer assembly raises out of the tank and the degas pump turns off.
16. Empty, rinse, and fill tank with DI water to 10 on "Fill" side of label. Place tank back in instrument.
17. Reconnect hoses to the front of the tank and turn on the WCS.
18. Click 'Home.' The transducer assembly lowers into the tank and the degas pump turns on.
19. Operate the WCS and degas pump for approximately 5 minutes.
20. Turn off the WCS and disconnect hoses from the front of the tank.
21. Click 'Service Position.' The transducer assembly raises out of the tank and the degas pump turns off.
22. Repeat rinse steps, 16–21, two more times for a total of three rinses.
23. Empty, rinse, and fill tank with DI water to level indicated by the consumable. Place tank back in instrument.
24. Click 'Home.' The transducer assembly lowers into the tank and the degas pump turns on.
25. Reconnect hoses to the front of the water tank. Keep WCS and chiller turned off.
26. Allow the water to degas at ambient temperature for 30 minutes before chilling the water.
27. Turn on the chiller and WCS.

