

Line Flush and Purge Procedure TDF

Use this procedure whenever your TDF Instrument will be idle for one week or longer.
This helps ensure that the lines remain clear and free of precipitate buildup.

1. Turn on the TDF Instrument and access the “Diagnostics” screen. Select “Line Charge” on the touch screen. See Figure 1.

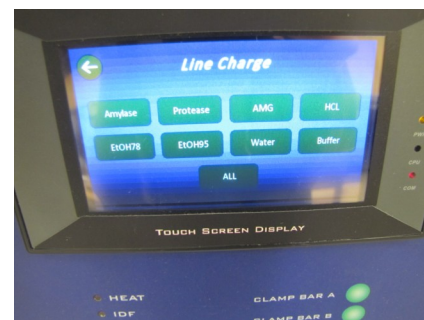


Figure 1

2. Obtain the TDF70 Line Flush Tubing Assembly as shown in Figure 2. Note the nine connection points on the Tubing Assembly.

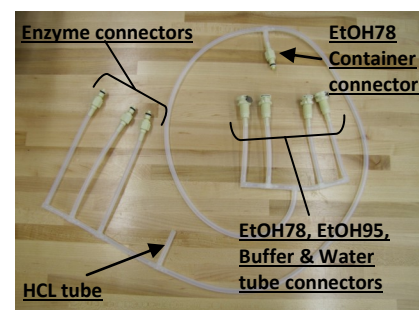


Figure 2

3. Remove the enzyme containers on the left side of the instrument. Disconnect the HCL container. Store or dispose of fluids properly. Attach the three connectors on left side of the Line Flush Tubing Assembly to the Enzyme lines. Also connect the short tube (with no connector) to the barbed fitting on the black HCL line. See Figure 3. Also, connect the fitting at the middle of the Tubing Assembly to the 78% Ethanol Container.

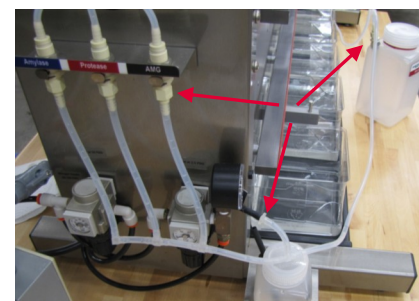


Figure 3

4. Disconnect the tubing connectors on the right side of the instrument from the EtOH78, EtOH95, Water and Buffer containers. Store or dispose of the fluids properly. Attach the four connectors on the Line Flush Tubing Assembly to the EtOH95%, EtOH78%, Buffer and Distilled Water connectors. See Figure 4.

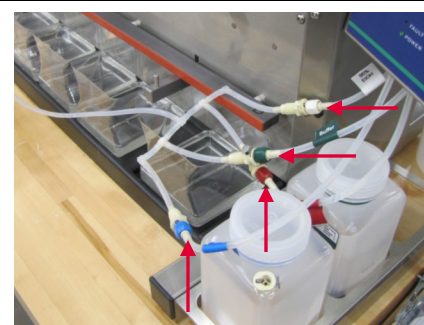


Figure 4

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5. Fill the 78% Ethanol Container with 220mls of 78% Ethanol.

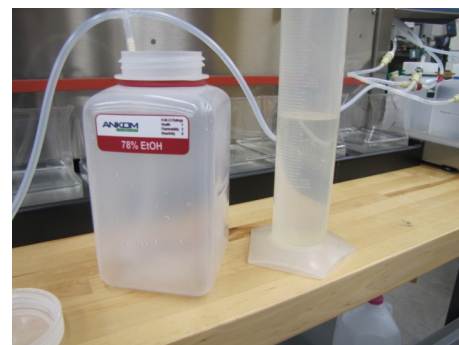


Figure 5

6. On the touch screen in the “Line Charge” screen, press the HCL button. See Figure 6. This will draw 78% Ethanol into the HCL line. Do this a second time to fully charge the HCL line. Repeat this with Amylase, Protease, and AMG, charging each line two times.



Figure 6

7. Next, on the touch screen in the “Line Charge” screen, press the “ALL” button. Refer to Figure 7. This will draw 78% alcohol into each of the lines, one at a time. Do this a second time to ensure a thorough flush of 78% Ethanol through the lines. This process will drain or nearly drain the 78% Ethanol Container.



Figure 7

8. Repeat the Line Charge “ALL” two more times to purge the Ethanol from the lines by sucking air into them. At the end of the second line charge with an empty container, there should be minimal fluid remaining in the lines. If a significant amount of fluid is observed, repeat the line charge “ALL” until lines are mostly cleared. During the line charge you should no longer see ethanol being pumped out to waste. See arrow in Figure 8 identifying waste lines. The TDF Instrument fluid lines have now been flushed and purged, and the TDF Instrument is ready for a period of non-use or storage.

