Priming and Purging a 1525 Binary HPLC Pump

This procedure describes how to prime and purge a 1525 Binary HPLC Pump. Since the procedure is the same for all models of 1525 Pumps, photos of your specific pump may not be shown in this procedure.

When to Prime

Priming and purging is necessary to ensure proper pump operation when:

- You start the pump up for the first time
- You change eluent
- You perform any maintenance
- The system has been idle for some time

Parts Required

None

Tools/Materials Required

- Priming syringe (in Startup Kit; WAT010337)
- Suitable gloves
- Safety glasses

CAUTION: When performing maintenance on any of the 1525 Binary HPLC pumps, avoid contact with solvents by wearing suitable gloves and safety glasses.

Priming and Purging the 1525 Binary HPLC Pump

The Breeze software has a Purge wizard that lets you purge the pump, 717plus Autosampler, and a 2414 Differential Refractometer.

If using MassLynx or Empower software, refer to the PDFs entitled Priming the 1525 Binary HPLC Pump Using MassLynx or Priming the 1525 Binary HPLC Pump Using Empower, found on this CD.

1. To start the Purge wizard, click the Purge button in the Acquisition pane (Figure 1).
2. The Purge Wizard asks you to select which components you want to purge (Figure 2). For this procedure select **Purge Pumps**. Click **Next** to continue.

![Purge Wizard](image1)

*Figure 2 Purge Wizard*

3. The Prime Pump screen instructs you to prime the pump with a priming syringe before continuing (Figure 3). To do this, insert the priming syringe into the draw-off valve, open the valve and withdraw some solvent. Repeat this process for the other pump. Click **Next** to continue.

![Prime Pump](image2)

*Figure 3 Prime Pump*
4. The Purge Pump screen instructs you to:
   - open the reference or (vent) valve
   - select which pumps you want to purge
   - select an initial flow rate for the pumps

   Set the flow rate to 3 milliliter/minute for each pump. Click **Next** to continue (Figure 4).
5. The pump purge will take 5 minutes to complete. This page gives you the option to stop and resume purging if needed by clicking the Stop or Resume Purge buttons. When the pump purge is complete, click the Next button (Figure 5).

![Figure 5 Purging Pump](image)

6. Close the reference (or vent) valve and click Finish to end the Purge Wizard (Figure 6).

![Figure 6Ending the Purge Wizard](image)