

Job Aid

BD FACSCelesta™, BD LSRFortessa™, and BD FACSymphony™ Analyzer families: Flushing the system using the BD FACSTFlow™ Supply System and BD® High Throughput Sampler (HTS) option

This job aid contains instructions for performing a system flush using the BD FACSTFlow™ Supply System (FFSS) and BD® High Throughput Sampler (HTS) option on BD LSRFortessa™, BD FACSCelesta™, and BD FACSymphony™ Flow Cytometers. A system flush cleans the overall fluidics to removed debris and contaminants from the sheath and waste tubing, and flow cell. Perform the system flush at least every two weeks. See your instrument's user guide for additional information.

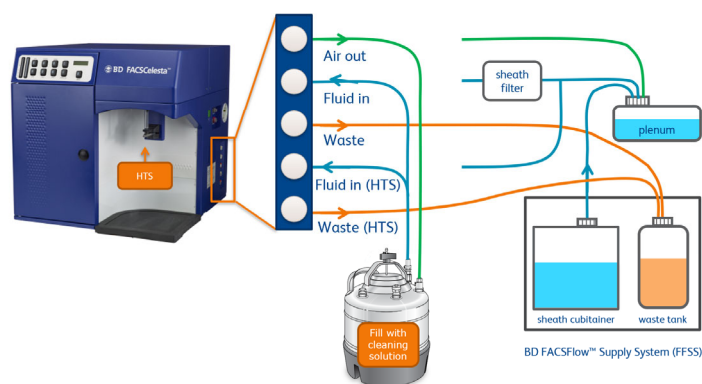
Before you begin

You will need the following items:

- Stainless steel sheath tank with dedicated tubing lines

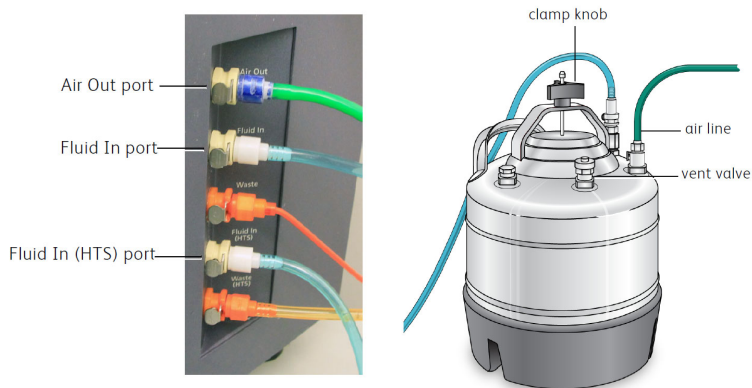
NOTE The cytometer system is shipped with a stainless-steel tank for sheath fluid. This tank is replaced by the sheath cubitainer when the BD FACSTFlow™ Supply System is installed. You should save the stainless-steel tank and tubing and use it for the system flush procedure.

- 2 L of undiluted BD FACSClean™ Solution or a freshly prepared 10% bleach solution
- 2 L of deionized (DI) water



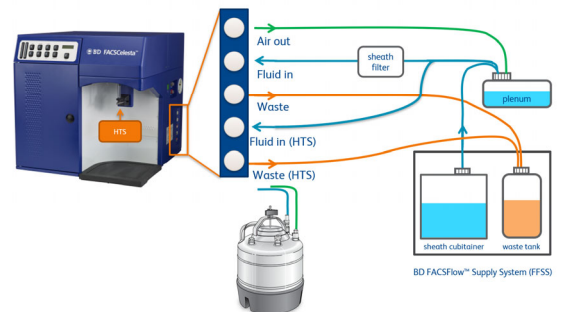
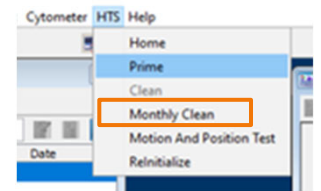
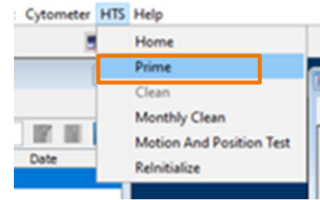
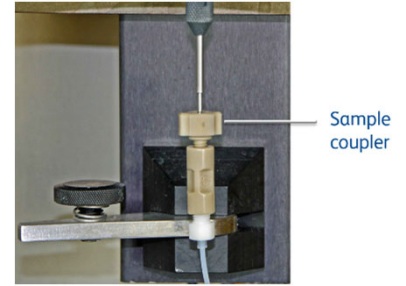
Preparing for the system flush

- ① Place the stainless steel sheath tank near the cytometer.
- ② On the right side of the cytometer, disconnect the air line (green) from the air out port and the fluid lines (blue) from the fluid in port and fluid in (HTS) port.
- ③ Connect the air line (green) from the stainless steel sheath tank to the air out port on the cytometer then connect the fluid line (blue) from the stainless steel sheath tank to the fluid in and fluid in (HTS) ports.
- ④ Empty the waste tank, if needed.



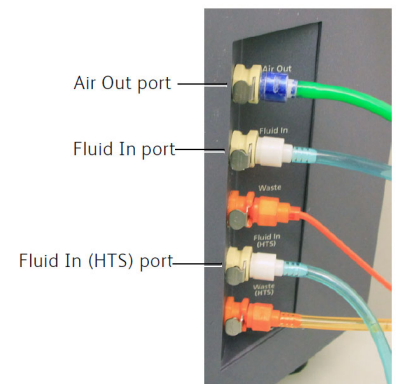
Flushing the system

- ① Fill the stainless steel sheath tank with 2 L of undiluted BD FACSClean™ Solution or a freshly prepared 10% bleach solution.
- ② Open the roller clamp on the fluidics line for about 10 seconds and drain the fluid into the beaker. Close the roller clamp.
- ③ Confirm that the HTS sample coupler is connected, or install if necessary.
- ④ Place the cytometer in run mode. From the cytometer menu, select **HTS > Prime**. After completion, repeat the prime.
- ⑤ Select **HTS > Monthly Clean**, then click **Continue**.
A dialog appears while cleaning is in progress; this can take up to 30 minutes.
- ⑥ When prompted, replace the cleaning solution in the stainless steel sheath tank with DI water. **NOTE** Rinse the tank with DI water to remove any remaining cleaning solution.
- ⑦ Reinstall the tank, then click **Continue**.
A dialog appears while rinsing is in progress; this can take up to 30 minutes.
- ⑧ Click **OK** when the cleaning is complete.
- ⑨ Empty the waste tank to remove the solution.



Re-establishing the connections

- ① At the cytometer, disconnect the air out, fluid in, and fluid in (HTS) lines coming from the stainless steel sheath tank.
- ② Reconnect the air and fluid lines coming from the sheath plenum to the air out, fluid in, and fluid in (HTS) ports on the cytometer.
 - Connect the air out line (green) from the plenum to the air out port.
 - Connect the branch of the fluid line (blue) that contains the in-line sheath filter to the fluid in port.
 - Connect the other branch of the fluid line (blue) to the fluid in (HTS) port.



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