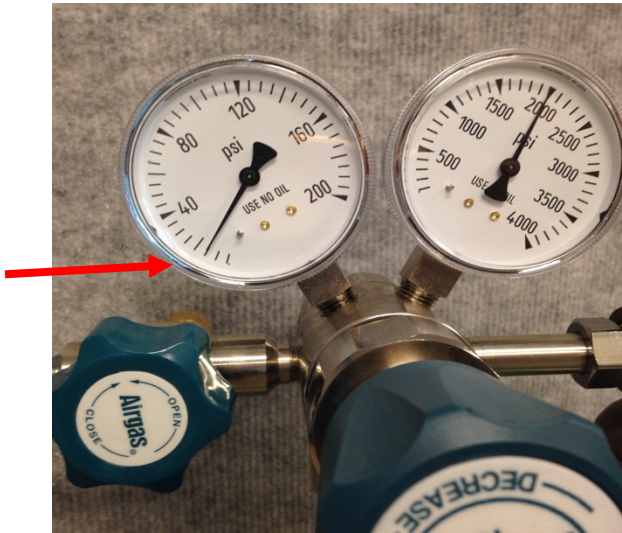


TEM Sample and Sample Holder Plasma Cleaner (Fischione Model 1020)
Standard Operating Procedure

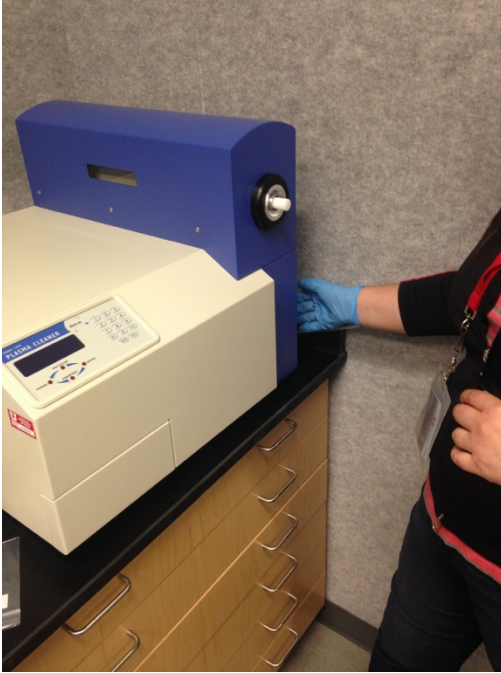
1. Open the regulator valve.



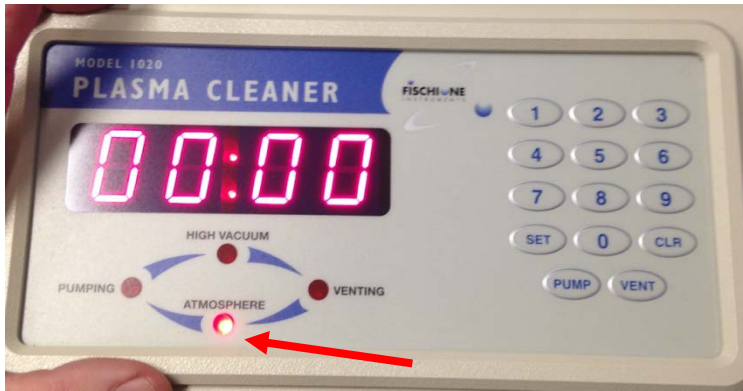
2. Left pressure gauge needs to show 15 PSI.



3. Turn on the power switch located on the back of the machine on the bottom right next to the power cord.

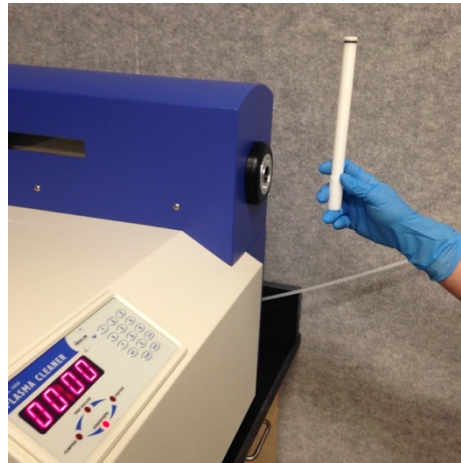


4. When powered on, the “ATMOSPHERE” LED indicator light will turn on.



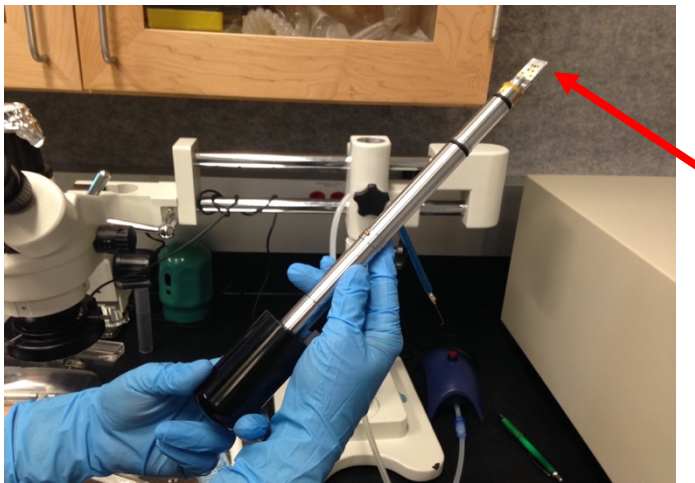
5. Put on gloves.

6. Pull out the plug.



7. Rest the plug on a clean area.

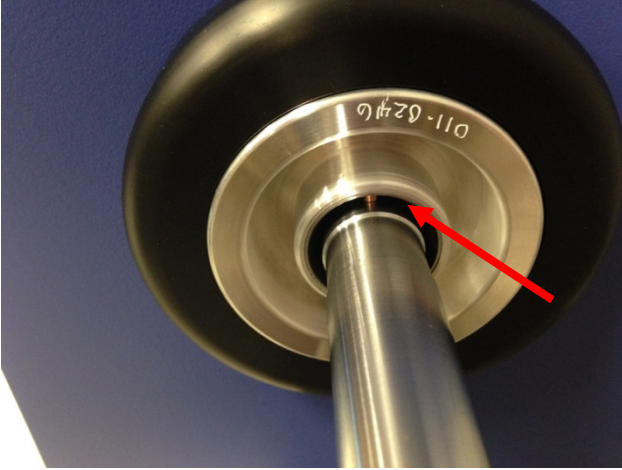
8. Mount the TEM sample in holder. If sample is organic or can be damaged by the plasma cleaner please see staff.



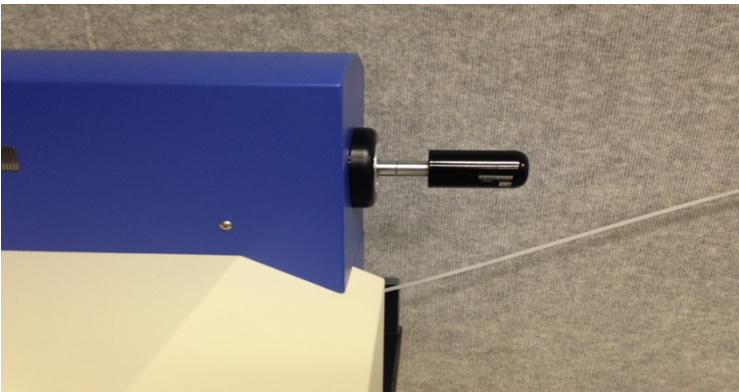
9. Load TEM sample into plasma cleaner.



10. Be sure to insert rod with the copper pin aligned with the space in the opening.

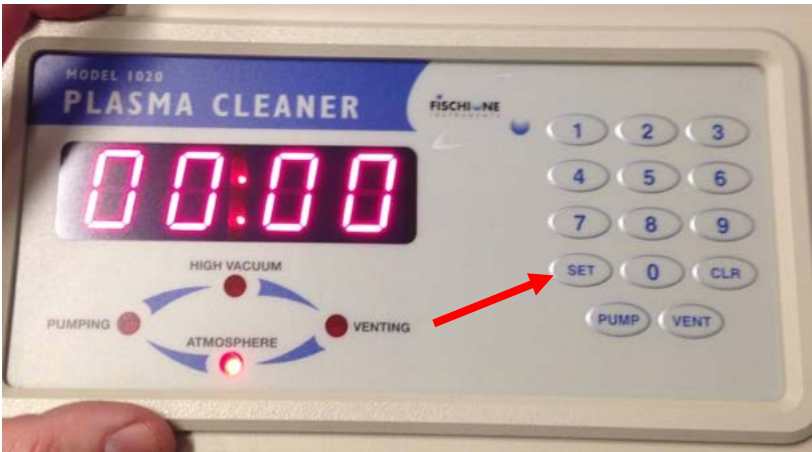


11. Push the rod in until it stops. The photo below shows the rod fully inserted.

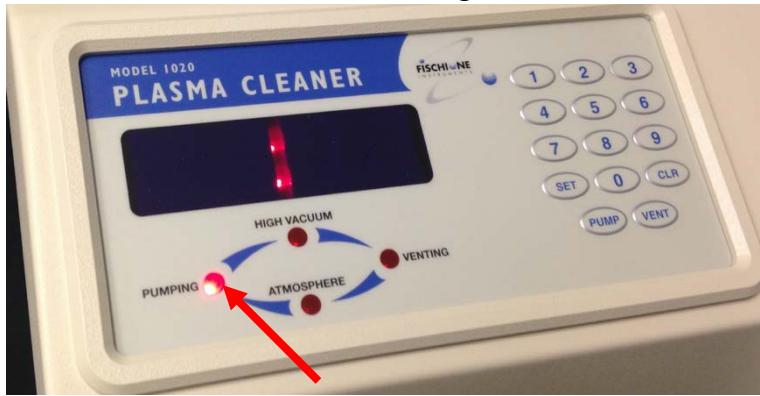


12. Set the timer. For most samples the timer is set for 30 seconds to 5 minutes (see staff for more details).

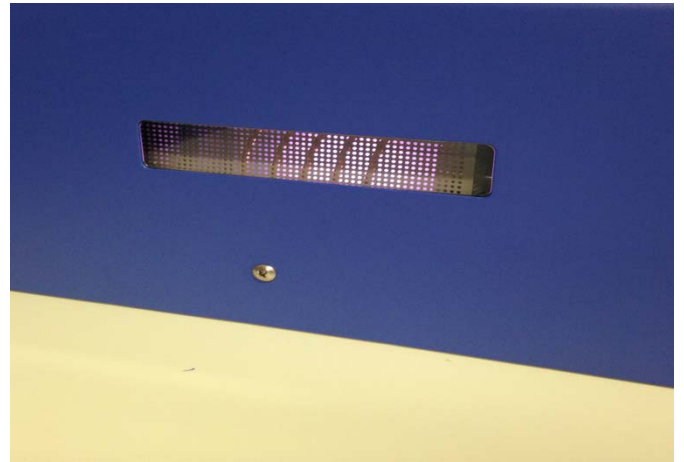
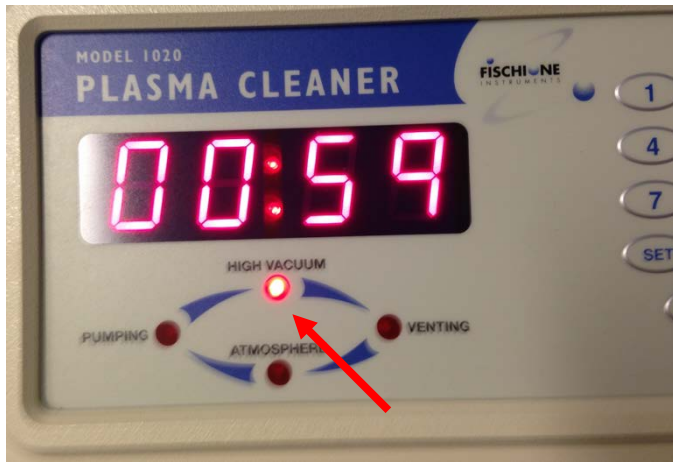
13. Push set.



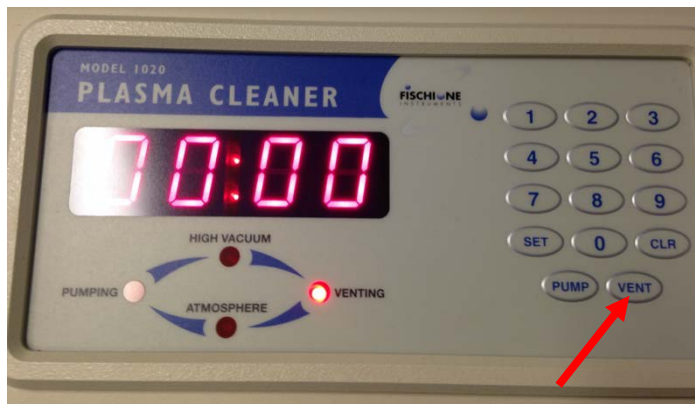
14. The “PUMPING” LED indicator light will turn on.



15. When the plasma cleaner is finished pumping the “High VACUUM” LED indicator light will turn on, and a purple plasma light will come on in the window.



16. The purple plasma light will turn off when the plasma cleaning is complete, once this has happened press vent. The “VENTING” LED indicator light will turn on.

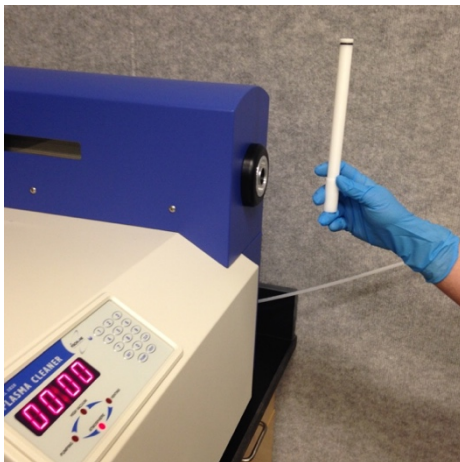


17. Wait 3.5 minutes for machine to fully vent. The machine is fully vented when the "ATMOSPHERE" LED indicator is lit, it is then safe to remove the sample.



18.

a) Replace plug.



b) Close regulator valve.



c) Turn the Plasma cleaner off.

