Oxygen plasma cleaner

How to use the Harrick Plasma cleaner

Step 0: Fill the user's book accordingly. It should be on the top of the plasma cleaner.

Step 1: Switch on the main switch (Figure 1.).

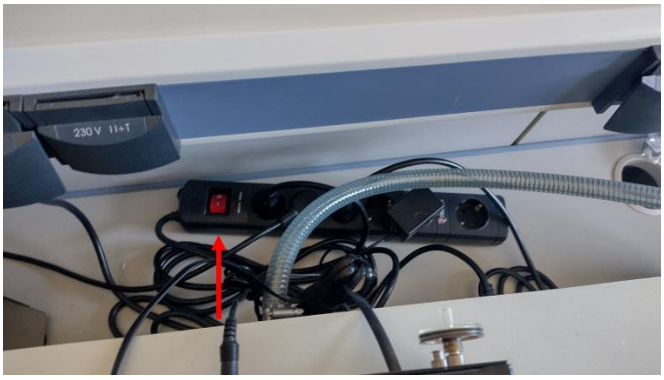

Figure 1. The main switch for the plasma cleaner and the vacuum pump.

Step 2: Switch on the plasma cleaner (Figure 2. straight red arrow).

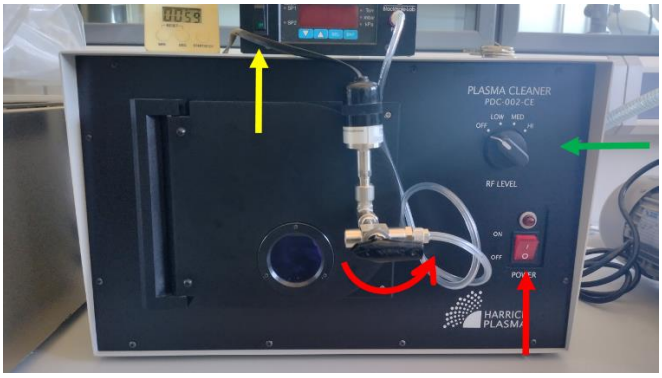

Figure 2. Switch on the cleaner (red arrow). Pressure controller switch (yellow arrow). Set the frequency (green arrow). Vacuum chamber tap (red circle arrow).

Step 3: Switch on the pressure controller (Figure 2. yellow arrow)

Step 4: Check the quality of the vacuum pump oil (Figure 3.A). It should be nicely transparent. The oil level should be at the red dot.

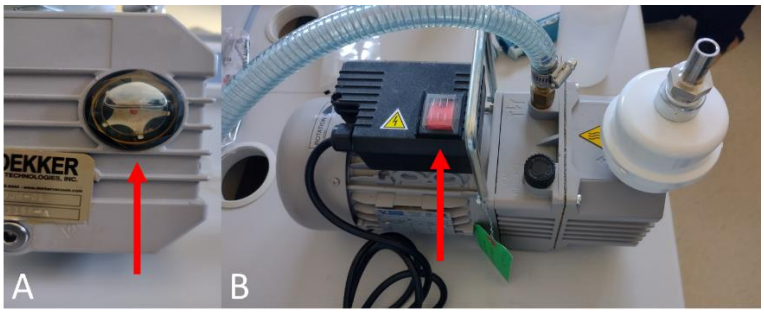

Figure 3. A) The oil quality-checking window. B) Switch of the pump.

Step 5: If the oil quality is good, switch on the vacuum pump (Figure 3.B.)

Step 6: Put your item into the vacuum chamber and close the door of the chamber and close the valve on the door (Figure 3 circle red arrow). USE GLOVES! Never touch the inner part of the vacuum chamber with bare hands!

Step 7: When the pressure reached 0.7mbar, the pressure controller will generate a clicking noise. Now you can switch the plasma frequency button to your desired frequency (Figure 2. green arrow). When the plasma is ignited, a nice purplish „cloud", the plasma, should be visible through the inspection window on the vacuum chamber‘s door. Measure the time of the plasma treatment. When you reached your desired amount of time, turn the frequency button to the off position.

Step 8: Switch off the vacuum pump.

Step 9: Open the valve slowly on the door of the vacuum chamber. Open the door and take out your sample.

If you do not have more samples switch everything off. If you have more samples repeat from step 5. If you observe any problem, malfunction, report it to Daniel.

Enjoy your plasma!