

CAUTION-GLASS UNDER PRESSURE

****Wear Safety Glasses ****

Before You Begin:

If the unit has not been used that day we recommend you allow the system to pump for at least 15-30 minutes before initiating coating procedure.

Samples must be COMPLETEY DRY or you will experience problems coating

- 1. Check and adjust the following before proceeding:
 - a. **Main** power = Off
 - b. **Voltage** control = 0
- d. **High Voltage** switch = Off
- e. **Processing** switch = Manual
- c. **Pulse** switch = Off f. **Fine Gas Control** = Closed
- 2. Open the chamber lid fully and with care (target can fall out). Remove the glass bell chamber and set carefully on the bench.
- 3. Use forceps provided to place specimens on the stage; 15 mm pin stubs will fit the 12 holes in the stage. Larger stubs will need support.
- Check and clean the rubber seals on both end of the bell chamber and seat it to the flange around the stage. <u>Carefully</u> lower the lid assembly on to the bell chamber – **DO NOT DROP IT!**
- 5. Press the lid assembly gently while switching the **Main** power to **ON**. You'll hear the vacuum pump start and an amber light on the front panel will come on. Keep a light pressure on the lid assembly until the vacuum level begins to fall (vacuum gage).
- When you are set to proceed, switch the High Voltage on and set the Voltage control to 8 ¹/₂. You may see a short sharp spike on the mAmp meter but it should fall back to zero. This is normal. If the needle jumps and stays up, <u>STOP and SEEK ASSISTANCE.</u> You may have a leak or sample problem.
- Slowly open the Fine Gas Control valve counter-clockwise to leak air into the system. Pressure in the chamber will start to rise (vacuum gage). There is a significant lag between opening this valve and noting a rise in the mAmp reading (5 to 10 seconds). Be patient and open the valve a turn at a time until the current begins to rise. Current may fluctuate at first, so carefully open or close the valve to get a steady reading of between 8 – 12 mAmps.
- 8. With a steady current reading, set the timer to 3-4 minutes (Au) or 4-5 minutes (AuPd) and flip the **Processing** switch to the AUTO position.



- During the coating phase monitor the mAmp meter and the vacuum gauge. Adjust the Fine Gas Control valve as needed to maintain a steady mAmp reading between 8 – 12 mAmp.
- 10. The timer will shut off the **High Voltage** automatically.

- a. Set **Voltage control** to 0
- b. Set High Voltage to off
- c. Set **Processing** to Manual
- d. Set Main to Off
- e. The system will vent itself and the lid assembly will be ready to open in about 90 seconds.
- f. Remove your specimens (See steps 2 4 above), re-assemble the chamber and close the lid assembly.
- g. Log your use on the calendar provided.



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