

53-inch Scattering Chamber Pumping/Venting Procedure

Pumping:

1. Check to ensure all detector biases and voltages are OFF.
2. Turbo pump has to be down (not at speed).
3. Close the manual vent valve (blue knob).
4. Close pneumatic vent valve (G207VV).
5. Open foreline valve (G207FV foreline valve).
6. Turn on main roughing pump (switch located on the pump itself).
7. Open rough valve (G207RV).
8. When pressure is at about 500 mTorr, start the turbo pump (just plug it in).
9. When the turbo pump is at speed, and the chamber is <100 mTorr, close the rough valve.
10. Open the turbo gate valve (G207GV).
11. Turn on the ion gauge and monitor the pressure.

Venting:

1. Check to ensure all detector biases and voltages are OFF.
2. Turn off the ion gauge.
3. Close the turbo gate valve (G207GV).
4. Open the pneumatic vent valve.
5. Slowly open the manual vent valve (blue knob).
6. As the pressure increases, the manual valve can be opened further.
7. When the pressure in the chamber reaches a few Torr, the manual valve can be fully opened.

List of voltages inside the chamber:

- HiRA Si Bias
 - ISEG -> controlled with web browser
 - ORTEC bias supply
- HiRA Csl Bias
 - Tenelec bias supply
- HiRA Csl Preamp power
 - Gray supply under the chamber
- Thermocouple +12V
 - NIM supply, unplug the lemo cable
- Forward Array HV
- Microball Bias
- Downstream Scint HV