Quartz tube encased in a heater

Electro-pneumatic solenoid valves allow automation in multiple cycle deposition

Manometer provides information on pressure within the quartz tube during deposition

Mass flow controller regulates overall pressure and gas flow during a cycle

Mechanical pump uses two valves for coarse and fine tuning adjustments to ensure precise pressures

Quartz crystal microbalance detects changes in mass which equates to changes in thickness