

Specifications for Silane Gas Cylinder Cabinet

1. Cabinet to have space for three gas cylinders (both full-sized), two will be the process gas (<2% silane mix in hydrogen) and the other will be for a purge gas (cylinder containing an Argon/Helium mix).
2. Gas purity is to be considered electronic grade and so tubing construction should be electropolished stainless steel having a 5-7 microinch Ra surface and all connections should be orbitally welded.
3. The process gas manifold will have diaphragm valves, diaphragm regulator, and pressure sensing transducers for cylinder, delivery, purge and vent, and submicron prefilter, e.g., 0.4 micron or better.
4. Gas cabinet to be of all welded steel construction with keyed lock mechanism on the door.
5. Gas cabinet to be equipped with a UL-approved fire sprinkler head for connection to domestic water supply.
6. Two valve purge manifold using Venturi purge system is to be used capable of 26 in Hg vacuum and be programmatically operated for the purge process (connection and disconnection) and have a display. Submicron prefilters, e.g., 0.4 micron, to be used. SS tubing pigtail to connect to process and purge gas cylinders.
7. The process gas line is to be equipped with excess flow switch set at ca. 12 SLM.
8. An electronically activated emergency control valve will be part of the process line; activation can be by outside signal or manually activating an emergency STOP mushroom-type button.
9. Standard warrantee to start upon cabinet commissioning.