

## Chemical Vapor Deposition System



**Hot Filament CVD System**

### **Technical Details:**

- ❖ Spherical Chamber
- ❖ Filament Assembly
- ❖ Filament Power Supply
- ❖ Ports for Pumping, Gas Inlet, Outlet, etc.,
- ❖ Substrate Heater with Temp. Controller
- ❖ Gas Flow Assembly with MFC and Valves
- ❖ Shower assembly for gas flow
- ❖ Vacuum Gauges with digital display unit
- ❖ Gate Valve
- ❖ Vacuum Pumping System
- ❖ Support frame with caster wheels and mobility

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## Chemical Vapor Deposition System

### Technical Details:

- ❖ Structure: Box (or) Cylindrical Horizontally mounted on Frame
- ❖ Number of Zones: Single / Two / Three
- ❖ Tube: Quartz & Size: 50 mm OD x 1.2 Mtr Long
- ❖ Max. Temperature: 1100<sup>0</sup> C
- ❖ Continuous Operating Temperature 1000<sup>0</sup> C
- ❖ Support Holders for Quart Tube
- ❖ Water Cooled End Flange on one end will have gas inlet
- ❖ Water Cooled End Flange on Other end will have
  - Pumping port
  - Arrangement for pull rod to remove sample insitu
  - Shower assembly to cool the sample with inert gas
  - Quick Access Door to remove sample
- ❖ Temp. Controller for hot zone
- ❖ Gas Flow Assembly with MFC and Valves
- ❖ Vacuum Gauges with digital display unit
- ❖ Rotary Vacuum Pumping System
- ❖ PID Programmable Water Chiller
- ❖ Support frame with caster wheels and mobility
- ❖ Automation of Gas Flow and Temperature with

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### Plasma Enhanced CVD System

#### Technical Details:

- ❖ Spherical Chamber
- ❖ Electrode Assembly
- ❖ Ports for Pumping, Gas Inlet, Outlet, etc.,
- ❖ Power Supply: DC / RF
- ❖ Substrate Heater with Temp. Controller
- ❖ Gas Flow Assembly with MFC and Valves
- ❖ Shower assembly for gas flow
- ❖ Vacuum Gauges with digital display unit
- ❖ Gate Valve
- ❖ Vacuum Pumping System
- ❖ Support frame with caster wheels and mobility

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