

RF Plasma cleaning system



Instrumentation Details

Make : Omicron Scientific Equipment Inc.

Model : Table Mount RF Plasma Cleaner

Specification :

1. Chamber: Made of pyrex dimensions 100mm internal diameter and length 150mm with provision for gas inlet through quartz tube, vacuum pumping port, pirani vacuum gauge and external RF electrodes made of copper
2. RF power: RF power frequency 13.56 MHz power level 100 watt with power adjustment as per requirement of process with manual matching net-work. Forward and reflected power measurement with analog meter
3. Vacuum Pump with Valve: Direct drive rotary vacuum pump, pumping capacity 120L./minutes, with exhaust filter with anti-suck back facility, Pneumatic ON OFF valve with throttle valve, Pirani vacuum gauge with readout and KF 25 vacuum connector with vacuum hose.
4. Gas Manifold: Two line gas manifold with Rota-meter and on off valves
5. Input Power: 220 Volt, 50 Hz as Indian standard
6. Erection and Commissioning:
 - The Erection and Commissioning will be done by us and will provide demonstration and practical training at your place
 - The system will be integrated by us.



- The power requirement: 220 Volt , 50 Hz as Indian standard

Plasma cleaning involves the removal of impurities and contaminants from surfaces through the use of an energetic plasma or Dielectric barrier discharge (DBD) plasma created from gaseous species. Gases such as argon and oxygen, as well as mixtures such as air and hydrogen/nitrogen are used. The plasma is created by using high frequency voltages (typically kHz to >MHz) to ionize the low pressure gas (typically around 1/1000 atmospheric pressure). This Table Mount RF Plasma Cleaner is suitable to clean and etch substrates. Further, RF plasma cleaner can also be used for modifying or enhancing the physical and chemical characteristics of surfaces. A chemical reaction occurs between the plasma gas molecules and the surface undergoes treatment.

User Instructions

1. Provide sample on glass substrate.
2. Samples can be submitted as thin films.

Contact Us

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