



M2VOXVT Mini-Vacuum Plasma Treatment System

M2VOXVT is a Small and portable Vacuum Plasma Treatment System manufactured by **VacTechniche**. M2VOXVT has been designed to provide wide range of reliable services, with low pressure and cold plasma treatment for the research laboratories or industrial applications.

M2VOXVT Features:

Clean Plasma:

The main body of the chamber is made of quartz or Pyrex and plasma electrodes are outside the chamber, so the particles are not etched from the chamber body and do not contaminate the plasma.

Wide range of plasma Generators:

- 40kHz, 400kHz, 13.56MHz.
- 0 to 100W, 150W or 200W.

Reliable and repeatable:

- Automatic setpoints adjustment.
- Closed loop parameter control.
- Automatic process control

User friendly:

- Touch and Graphical control panel is available.
- Automatic process control mode.
- Easy adjustment and monitoring of plasma parameters

Self-protections:

The system monitors all components. It automatically considers the prerequisites so that the components of the device are not damaged in the event of an operator error.

Custom design options:

- One, two or more input gas.
- Vacuum chamber size.
- Manual or automatic accessories.
- Plasma polymerization accessories such as pulsed plasma generator, liquid monomer injector, heat controlled body, dry vacuum pump.

M2VOXVT Applications:

- Plasma cleaner.
- Plasma Activation.
- Plasma etching.
- Improve adhesion.
- SEM and TEM sample preparation.
- Textile surface treatments.
- PDMS microfluidic channel fabrication. Medical technology.

Parameter

value - options

Chamber	<ul style="list-style-type: none">• Size: diameter:125 mm, length: 240 mm.• Custom design size is available.• Main body Material: quartz, Pyrex.• Sample holder: Glass, Aluminum, steel, PTFE
Plasma generator	<ul style="list-style-type: none">• Frequency:40khz, 400khz, 13.56mhz.• Power: 0 to 100w, 150w or 200w.
Input gas	<ul style="list-style-type: none">• One, two or more input gas.• MFC or needle valve gas control and glass rotameter flow meter.
Control and Monitor	<ul style="list-style-type: none">• Manual via key, volume and digital displayer• Graphical and touch control panel.• Parameters: vacuum pressure, time, gas flow, plasma power, system components automatic and manual safe enable/disable.• Automatic and manual process management
Plasma Generation	<ul style="list-style-type: none">• External capacitive electrodes.• External Inductive plasma generation.• Internal single or multi-electrode structure.
Vacuum pump	<ul style="list-style-type: none">• 2-stage Oil-sealed Rotary Vane Pump• Dry pump.
Vacuum gauge	<ul style="list-style-type: none">• Corrosion resistant Pirani gauge
Case	<ul style="list-style-type: none">• Dimensions: depends on components and options• Material: Aluminum.
Main input power	<ul style="list-style-type: none">• 220v AC. 50 Hz - 60Hz. (Or 110V AC)

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