

Gas Plasma Cleaners | Economic, Low-frequency

PM110C

Low-frequency output Low-frequency high voltage power supply Reaction chamber Chamber dimensions $\Phi 100 \times L160\text{mm}$

Economic, surface modification and cleaning of target objects by the active action of ionized gas.



Features

- Economic plasma cleaner.
- Simple plasma treatment operation.

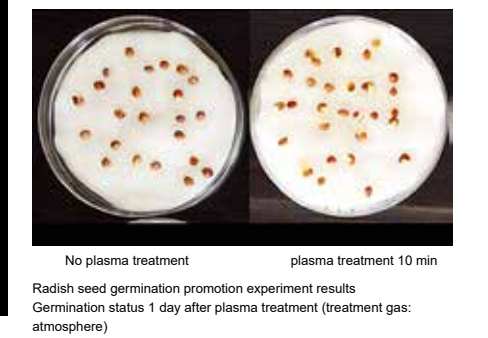
Control panel



Viewing window



Plasma experiment examples



Promising applications

applications <cleaning>

- Removal of organic films (oil, wax, etc.).
- Cleaning of electronic parts, optical parts, and small components, pre-treatment before electroplating, coating.
- Bacteria disinfection (cell membrane etching by oxygen radicals or disinfection by UV).

<Surface modification>

- Imparting functional groups to the surface of polymer materials → Improving adhesion and adhesion. Through oxidation reaction, functional groups such as -OH, >C=O, -COOH are generated on the surface (affected by trace amounts of water and carbon dioxide).
- Improving the adhesion of various polymers and the biocompatibility of medical and dental materials.
- By treating the culture dish, it can be evenly coated with medium, etc.

<Etching>

- Etching of organic polymer materials. For organic polymers, oxygen can become the etching gas, allowing for resist etching.
- Promoting seed germination experiments.

Specifications

| Model | PM110C |
|--------------------------------|---|
| Plasma generation source | Low-frequency high voltage power supply, output approx. 50w, frequency 60KHz, output voltage 10kV |
| Electrode structure | Capacitive type, 2 segments |
| Gas flow meter | For oxygen, flow rate 30~300mL/min |
| Vacuum adjustment valve | For vacuuming, returning to atmosphere |
| Reaction chamber dimensions | Chamber dimensions $\Phi 100 \times L160\text{mm}$ |
| External dimensions (W×D×H mm) | 310×300×448 |
| Power supply 50/60Hz | AC220V 10A |
| Vacuum pump interface | KF25 (recommended pumping speed 30L/min) |
| Gas interface | Outer diameter $\Phi 6.35\text{mm}$ |

- Sterilizers 1
- Granulation and Spray Dryers 2
- Furnaces 3
- Ovens 4
- Incubators 5
- Plasma Equipment 6
- Water Purifiers 7
- Baths 8
- Water Circulators 9
- Rotary Evaporators 10
- Stirrers & Shakers 11
- Options 12