

Gas Plasma Reactors | Compact, Benchtop

PR200

Made in Japan

High frequency output 200W

Reaction chamber $\Phi 100 \times L160\text{mm}$

A compact benchtop plasma cleaner for applications ranging from surface modification to cleaning.

Applications

- Introducing functional groups onto polymer surfaces to improve adhesion. Through oxidation reactions, functional groups such as $-\text{OH}$, $>\text{C}=\text{O}$, and $-\text{COOH}$ are generated on the surface.
- In nitrogen plasma, nitrogen is incorporated into the surface, generating functional groups such as $-\text{NH}_2$.
- Silicon wafer etching.
- Surface modification of various materials (metals, polymers, films, ceramics, etc.).
- Asbestos pre-treatment (membrane filter ashing).
- Applications in electronics and biochemical fields.
- Low-temperature ashing (polymers, coal, food, etc.).
- Bonding PDMS chips using glass and PDMS plates.
- Removal of organic contaminants from surfaces.

Features

- High-output type with 200 W RF power.
- Compact benchtop design suitable for installation in limited spaces.
- Automatic tuning for stable operation and ease of use.
- Can also be used as a plasma reactor for ashing applications.



Reaction chamber

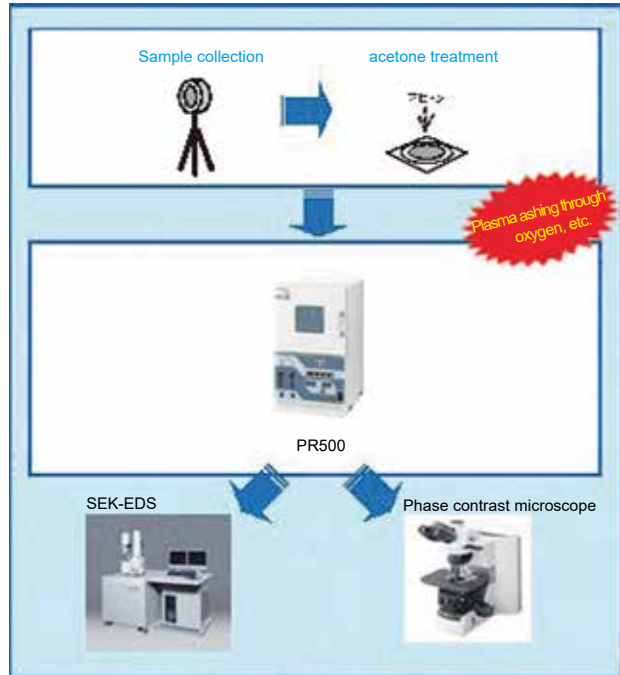


Single chamber (PR200)



Test material rack

Example: asbestos analysis pre-treatment



Model		PR200
Mode		DP mode, barrel
Control	High frequency output	Max. 200W
	Frequency	13.56MHz
	Tuning method	Auto-matching
Reaction	Reaction chamber	Heat-resistant glass $\Phi 100 \times 160\text{mm}$
	Reaction gas	1 system (oxygen) flow meter
	Control	Manual shut-off valve
	Piping material	Stainless steel, teflon
External dimensions		W350×D400×H500mm
Weight		Approx. 25kg
Power supply *		AC100V 14A

* Voltage modifications other than the listed specifications are also available. Please contact us for details.

- Sterilizers 1
- Granulation and Spray Dryers 2
- Furnaces 3
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