

Binder *Labortechnik*

Zubehör für Elektronenmikroskopie

Product Information

Plasma Cleaner TPS 216 EC



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Plasma Cleaner TPS 216 EC

The plasma cleaner TPS 216 EC is a low cost version of the TPS 216. The vacuum system (Economy Pumping Station from Pfeiffer-Vacuum) is identical to TPS 216. However, unlike the TPS 216, where two chambers are present, TPS 216 EC is equipped with a single recipient with no manual valves. The vacuum gauge controller (Penning gauge) is optional.

Plasma Source

The compact design of the gas discharge source enables an easy upgrade to a universal plasma incineration- and plasma cleaning installation. A coaxial discharge at low pressures is generated by the gas source. A aluminum grid prevents a direct contact between samples and plasma, even if samples are introduced in the interior of the source for intense cleaning or plasma incineration purposes. The plasma is created by discharges typically in the intermediate frequency range of 25 kHz at 4 kV, resulting in approximately 10 W of efficiency. This enables a very compact design and prevents unwanted sputter effects or excessive heating of the samples.

For standard cleaning of samples with low or intermediate contamination, the sample holder will be positioned with a designated adapter in such a way that any contact between gas discharge and holder is excluded. Consequently, the effect of the plasma is reduced so that even very sensitive samples can be cleaned with almost no heating of the sample holder.

Technical Specifications

- ◆ Intermediate frequency (25 kHz VAC) at 4 kV_{ss}, 10 W output
- ◆ Working range 0.1 - 0.5 mbar, combination of 10-20 % Oxygen and 80-90 % Argon
- ◆ Single control panel, timer with discharge display
- ◆ Separate air valves to vent the chamber to some extent or completely with noble gases and fine tuning valve
- ◆ One adapter and one holder are inclusive
- ◆ One recipient D 42,5 mm t 25,5 mm
- ◆ Adapter fore SEM Specimen

Upgrade Options

- ◆ Side entry Adapter (for Fei/Philips; Hitachi, Jeol, Zeiss)
- ◆ Side entry holder (for Fei/Philips; Hitachi, Jeol, Zeiss)
- ◆ Penning Equipment (measuring range 5×10^{-9} – 1000 mbar)