

# Plasma generator RPG-128

Highly efficient plasma generator based on high frequency induction discharge.

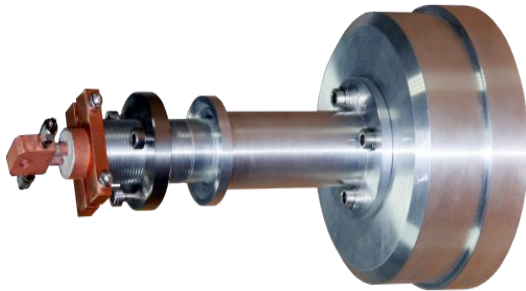
Plasma generator is a universal technological device for wide application of ion-plasma processing processes, meets all the requirements for industrial production.

The main element of the generator is a flat coil through which an industrial frequency current (13.56 MHz) is passed. The generators are made in an aluminum case, equipped with a coaxial input.

The working surface is protected by sapphire and a removable protective quartz glass screen, which makes it easy to clean.

RPG-128 is an electrodeless low-temperature high-density plasma generator designed to be installed inside the technological volume of a vacuum chamber. The device can be used for a wide range of technological processes:

- spraying of various materials in the plasma of inert or chemically active gases;
- ionic and plasma-chemical etching;
- evaporation, including with additional ionization of vapors;
- plasma-assisted vapor deposition;
- ionic surface modification (oxidation, reduction, nitriding, carbidization, etc.);
- ionic cleaning and assistance;
- high temperature annealing.



RPG at work

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## "Standard set"



SURA

The ion-plasma system consists of:  
RPG-128 (or RPG-250) - radio frequency plasma generator  
Matching device - SURA  
RF generator

Technological devices (SURA and RPG) are placed motionless in the chamber.

The RF generator is placed in a rack (for versions complete with a vacuum unit).

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RF generator



RPG - radio frequency plasma generator is protected by patents of the Russian Federation and other patents:  
RF RU 2503 079 C1  
Japan 6292484  
USA US9704691

