

Plasma-chemical etching unit NIKA-134



A small-sized unit designed for etching silicon wafers ($\varnothing 100$ mm) is based on a 2013-500 series vacuum station (reduced-size chamber). One rack contains pumping, control, cooling, technological devices and power supplies.

Main technological devices:

- RF magnetron (original design);
- RF generator;
- Magnet system.
- Working flange - frontal, with an RF magnetron and a loading module
8 plates $\varnothing 100$ mm are processed at the same time.

Plasma-chemical etching unit

NIKA-134

Layout and characteristics



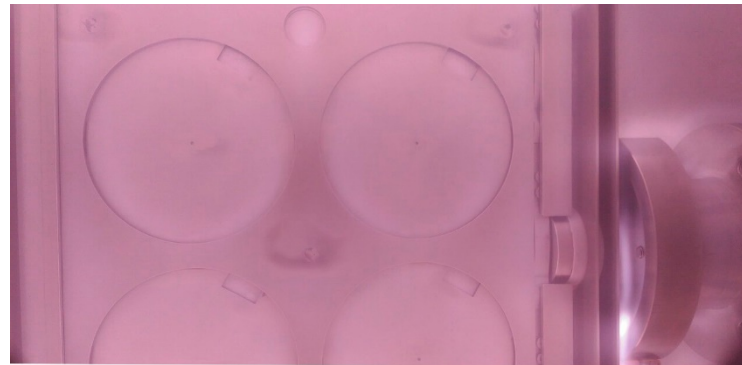
RF generator



RF magnetron

Parameters

Power	15 kW
Supply voltage	380V +10-15 %
Time to reach working vacuum	not more than 20 min.
Maximum current consumption by phase	31 A
Mass	no more than 650 kg
Ultimate vacuum	no more than 3×10^{-4} Pa
Working vacuum	1×10^{-3} Pa



RF magnetron

