





The chamber is water-cooled, equipped with three viewing windows. Oil-free vacuum pumping system:

- cryopump NVK-160;
- foreline pump NVSp-12.

Thin layers of metals are made by the method of resistive evaporation with preliminary plasma cleaning and heating of the substrates.

Set of technological devices:

- radio frequency plasma generator (RPG-128) for cleaning the surface of substrates;
- three resistive evaporators;
- heater.

On the lower (working) flange are located :

- substrate rotation and positioning system;
- positionable process damper.

On the upper flange of the chamber, there are three quartz sensors for monitoring the thickness of the deposited layers. On the upper flange of the chamber, there are three quartz sensors for monitoring the thickness of the deposited layers.



NIKA-137 unit Layout and characteristics

| | Plasma source RFPG -128 | Parameters Power Supply voltage Maximum current consumption by phase | 22,5 kW 380V +10-15 % 32 A |
|---|---------------------------------------|--|---|
| Image: Second | SURA Automatic load balancer | Ultimate vacuum Working gases Time to reach ultimate vacuum Time to reach working vacuum Working gases | no more than 3×10 ⁻⁴ Pa 2×10 ⁻³ Pa no more than 2 h. no more than 15 min. Ar |
| | Thermal Evaporator – 3 pcs. | Number of gas injection channels Mass Service area Overall dimensions | 1 no more than 550 kg 2190 x 2380 mm (length x width x height) (length x width x height) 1428 x 1010 x 1533 mm |
| a a to | Desistive bester | | |



Resistive heater sector-shaped - 1pc.

<u>vaclab.ru</u> <u>vaclab@vaclab.ru</u>

LLC LVT +, Technopark ELMA, Zelenograd, Moscow, Russia

+7(499) 346 0667



NIKA-137 unit Layout



LLC LVT +, Technopark ELMA, Zelenograd, Moscow, Russia