



The Series 16 Mini Plasma Source - Enabling Research at the Laboratory Scale

The Series 16 is the result of a mini plasma source developed for NASA Goddard. This version is based on NW-16 fittings.

The Series 16 is a compact alternative suitable for small research systems. A low cost RF power supply solution can also be supplied by Meaglow Ltd. This includes a 13.56 MHz pre-amplifier (27.12 MHz is also possible), a linear amplifier, a power meter and manual match box, plus cabling.

Specifications are give over page.



- Max. 80 watt operation continuously, up to 100 watt in pulse mode.
- No water cooling. The system can get hot and present a heat hazard, air cooling can moderate this.
- Suitable for 2 to 4" wafers and smaller test samples.
- Oxides, nitrides, other
- **Hollow Cathode Technology with Low oxygen contamination.**
- Cost effective.
- High density of up to 10^{12} cm⁻³ or higher dependent on conditions.
- Wide range of operating pressures (eg. from < 200 mTorr to > 10 Torr).
- Improved growth per cycle for many material systems

Related Papers:

- C. Ozgit-Akgun, E. Goldenberg, A. Kemal Okyay and N. Biyikili, Journal of Materials Chemistry C **2** (2014) 2123.
- K. S. A. Butcher, V Georgiev and D. Georgieva, Coatings **11** (2021) 1506.

For more information on Meaglow Ltd or its hollow cathode plasma sources, visit our website www.meaglow.com or contact us at info@meaglow.com .