



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 the NASA Goddard Space Flight Center. This version is based on NW-16 fittings.

The Series 16 is a compact alternative suitable for small research systems. Specifications are given 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" wafers and smaller test samples.
- N-type or MHV connections for RF.
- 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).
- Viewport option available.
- Hastelloy C276 cathodes available for use with fluorine, chlorine and hydrogen.

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 .

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