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COST reference microplasma jet

The ***COST reference microplasma jet*** is now available from PAC. This capacitively coupled radio frequency driven microplasma jet operates at atmospheric pressure. It was developed in the framework of the COST action MP1101, based on a design from Research Department Plasma at Ruhr-University Bochum.

The ***COST reference microplasma jet*** was developed with the intention of providing a robust, simple source mainly for scientific research as reference for other jet devices operated in plasma medicine.

The device offers excellent access for optical diagnostics, is electrically safe and includes current and voltage probes to survey operation.

A basic characterisation of the device can be found at:
J. Golda et al., J. Phys. D: Applied Physics 2016, 49, 084003 .



Our know-how from research –
custom tailored for your research

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Properties

- **Modular design**

Electrode assembly completely made from inert materials: quartz, medical steel, ceramics

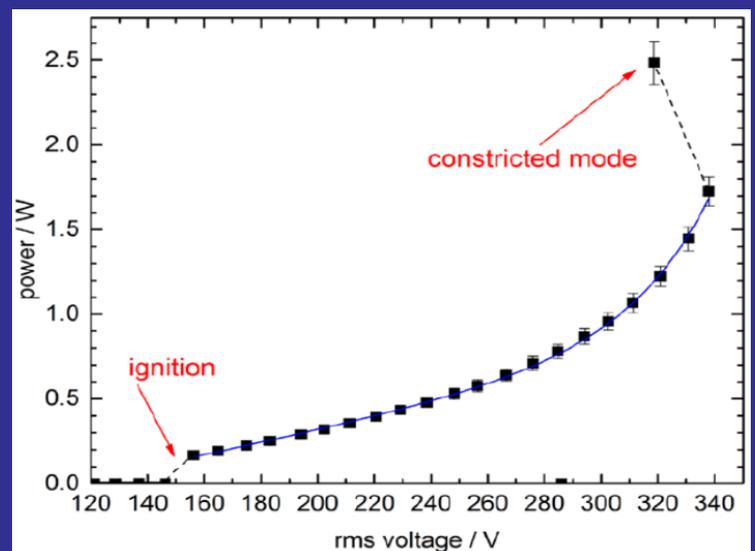
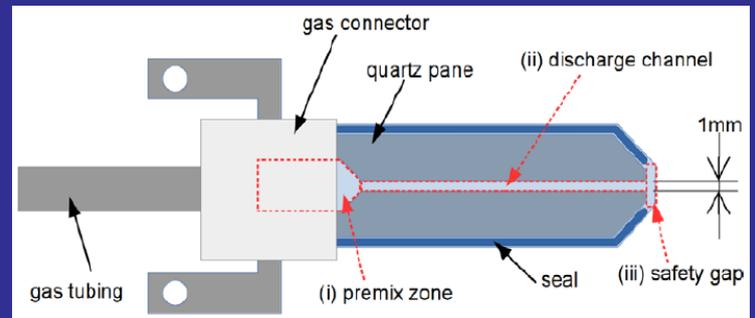
Housing with connectors for gas and the integrated current and voltage probes. Integrated matching by transformer circuit.

(For power measurements a DSO with ≥ 1 GS/s is required.)

- **Compact power supply available** (13.56 MHz, max. 5 W)

- **Electrically safe and shielded**

(electromagnetic compatibility exceeds requirements of ICNIRP98)



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