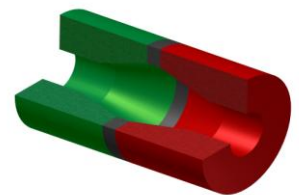
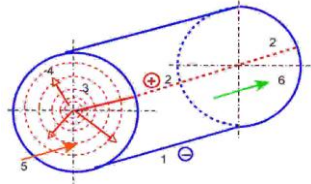
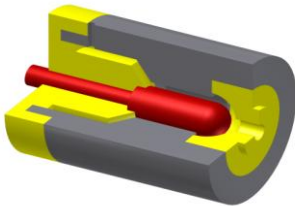
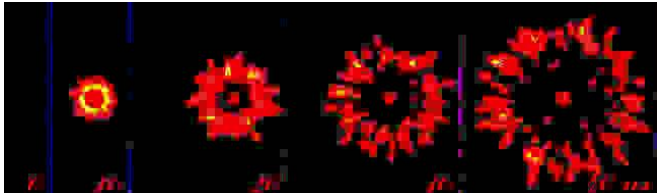


10-30 kV R&D Driver for Corona, PEF or PUV Systems WT-HV Pulser-1



Control panel:

- Siemens interactive LCD to dial voltages, pulsing rate and duration at fixed charging capacitor and HV switch.
- HV probe & current probe with BNC connector and PC scope with cables (included).



Pulsing HV parameters & gears:

- Peak voltages: 5-30 kV;
- El fields from **5 to 40kV/cm**;
- Max pulse current to media and pulse duration: 0.1A - 3kA and 0,1 μ s-100 μ s by selecting HV capacitor, inductive load L and the SCR switch;
- Rep. Rates: 1-100Hz, correlated with a selected pulse energy and system 2 kw power;
- Pulse shape: Gaussian;
- Load: coaxial chamber for corona plasma or for PEF processing, it can also take a long (40-70 cm) flash lamp with ca. 40% UVC (output);
- Pulsing time: 1s-1h;
- HV chamber for tests is under sealed door, which is automatically locked when HV is on.

Size (LxHxB)/: 100x46x46cm, **Weight:** ca. 50kg

El. connection: 220-230 VAC, 12 A, 50-60 Hz.

Pulse diagnostic: full pulsed spectra's, pulsed full and filtered calorimetric data, pulsed current and voltages, Tektronix scope, T°, photos, etc.

The working process:

strong electrical fields in a coaxial chamber form energetic electron fluxes from the central wire or rod electrode. Electrons treat passing media directly or by forming a glowing plasma.

Advantages of our automatic bench-top universal HV driver:

Customer conveniences and assurances:

- it has been successfully used in R&D contracts with such known companies as Baxter Inc., 3M Inc., Allergan Inc, etc. from USA and EU.
- The pulser can be promptly converted to one of three R&D projects listed on the right column.
- the system modified to a specific usage can be sold, rented or used on our grounds as a tool for a custom R&D project, just as it was used for above cited companies.

One of 3 R&D HV platforms on order:

- As corona it has been used to study purification of contaminated air or water,
- as PEF - for sterilization of liquids, or for material modification under strong pulsed HV fields.
- to drive 40 to 70 cm long high output UV to IR flash lamps to find optimal parameters for efficient modification of materials or for advanced high-speed sterilization.

Practical versatile base for 3 HV systems