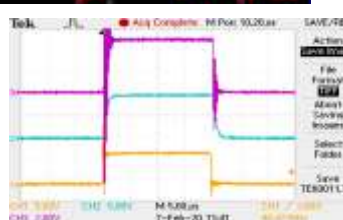
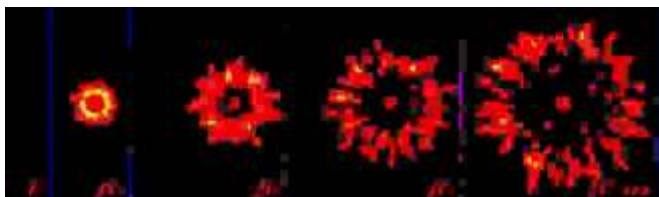


10-30 kV Pulser for Corona Plasma, PEF & PUV R&D Systems WT-HVP-1



- **Load:** on a customer requests. It was already used for tests of corona plasma or for PEF processing with fixed 2 μ s HV pulses and also for driving long 40 and 70 cm UV flash lamps.
 - **Safety:** HV chamber for tests is under sealed (blue) fully interlocked door, it has no EMC neither UV leaks outside the system.
- Pulse diagnostic:** HV & current probes, also PD sensors with BNC connectors with cables to a PC scope (included), T $^{\circ}$ sensors, T $^{\circ}$ LED displays; the PC based 180-1100nm range spectrometer.



Pulsing HV parameters on the control panel:

- Max. voltages **V**: 30 kV providing EI fields from 5 kV/cm up to **35 kV/cm**;
- HV Switch – fix-time semiconductor switch for corona plasma or for flash lamp or timed to PEF applications with pulsing ranged on customer request, exaplepls:
 - Rep. Rates, Hz: 4 fixed as per your request from 1 to 500Hz or gradual from 1Hz to 500Hz;
 - Durations in μ s: 4 fixed as per your request from 1 to 50 μ s or gradual from 1 μ s to 50 μ s;
 - Max pulse current to media (Q/s), 0.1-0,3 A *depending on applied V and media R which has to be min of ca.3-10kOhm*);
 - Max pulsed output: 2000w.
 - Selectable time for pulsing: **1s-1h**;
 - Shape: positive rectangular, fronts of ca.1 μ s.
 - Flatness: 2% at 5 μ s: 10% at 20 μ s.

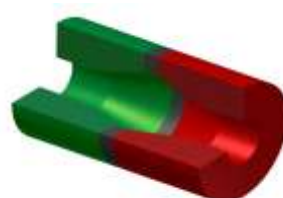
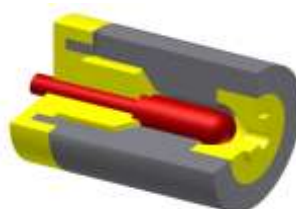
Size (LxHxB)/Weight: 100x46x46cm /42 kg.

The enclosure is on our custom order to a French equipment company near Strasbourg.

EI. connection: 220-230 VAC, 10 A, 50-60 Hz.

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.

Each of 3 R&D HV platforms to order:

- As corona plasma to study purification of contaminated air,
- for high Magnetic Pulsed fields in material or bio-modification under strong pulsed EM fields.
- to drive 40 to 70 cm long high output UV to IR flash lamps for surfaces non-thermal modification or for high-speed sterilization.

Practical versatile base for 3 HV R&D systems