



Very broad pulse parameters:

- **10 kV** power supply provides electrical fields from **5 to 25 kV/cm**, (25-40kV/cm as a paid option);
- Rep. Rates, Hz: 4 fixed as per your request from 1 to 500Hz or gradual any value from **1Hz to 500Hz**;
- Durations in μ s: 4 fixed as per your request from 1 to 50 μ s plus gradual values from **2 μ s to 30 μ s**;
- Max pulse current to media (Q/s), 0.1-10 A depending on applied **V** and media **R** which has to be min of ca.3-10kOhm);
- HV power supply output: **500w**, optional: **1000w**.
- 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.



Control panel (a new version is on the left):

- Analogue dials for pulse parameters with LED's: 2 x4 vertical positions - fixed parameters, selected by 2 knobs below,
- two knobs above are for gradual parameters change,
- Timer in the center,
- HV, current and pulse controller BNC outputs,

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

El. connection: 220-230 VAC, 16A, 50-60 Hz.

2 PEF cell, 1.5l batch, reg. pump, flow meter:

coaxial PEF cell:

PEF cell with parallel electrodes:



Advantages of our Basic semi-automatic bench-top PEF system:

TWO fast interchangeable PEF vessels:

- **a coaxial chamber** active length is 180 mm long, gap 4 mm, for disinfection of juices, milk, etc. with regulated 1-5 l/min direct flow or through the 1.5 l batch volume, Flow meter, T° control.
- **a round cell with parallel electrodes for**
 - sanitation of jells, jams, D80mm, gap 5-15 mm
 - Juice Extraction from vegetative cells.
- Changing from one chamber to another is 2 min.

Broad PEF parameters and R&D conveniences:

- #1:** very broad pulse parameters and two easily switched PEF chambers allow to perform many tasks.
- #2: the full control over PEF processes:**
 - T°C LCD meters for in & out moving juices;
 - Voltage and Current sensors, + PC scope are included in the package;
 - kOhm-meter to measure samples resistances in PEF cells.
- #3: Customization:** please submit your suggestions. Except max HV other changes may carry no costs.

Practical inexpensive & versatile PEF R&D system.