



Pulse parameters:

- Max. voltages **V**: 10 kV providing EI fields from 5 kV/cm up to **25 kV/cm**;
- HV Switch – timed semiconductor switch to select pulsing as following:
 - Rep. Rates, Hz: 10, 50, 100, 500,
 - Durations in μ s: 2.5, 5, 10, 20;
 - Max pulse current to media, (Q/s), 0,3 A; (*depends on **V** and media **R** with min of **ca.10kOhm***);
 - Max pulsed output: A: 150w; Optional 300w.
 - 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:** 100x46x46 cm /42 kg.
- **El. connection:** 220-230 VAC, 10 A, 50-60 Hz.

Control panel:

- Analogue dialsers for pulse parameters,
- Timer,
- HV and current probes with BNC connectors,
- BNC output for pulse duration command,
- PC scope with cables (included).
- T°C sensors for in- and out fluids at PEF chamber



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:** allow to perform broad R&D works on PEF since has very broad electrical parameter;
- #2: provides a full control over PEF processes:**
 - T°C LCD meters for in&out moving juices;
 - Voltage and Current sensors, + PC scope included in the package!

Practical inexpensive & versatile PEF R&D system.