



## 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  $\mu$ s: 2.5, 5, 10, 20;
  - Max pulse current to media (Q/s), 0.1-0,3 A depending on **V** and media **R w. min of ca.10kOhm**);
  - Max pulsed output: A: 150w; Optional 300w.
  - Selectable time for pulsing: **1s-1h**;
  - Shape: positive rectangular, fronts of ca.1  $\mu$ s.
  - Flatness: 2% at 5 $\mu$ s: 10% at 20 $\mu$ s.
- Size (LxHxB)/Weight:** 100x46x46 cm /42 kg.
- EI. connection:** 220-230 VAC, 10 A, 50-60 Hz.



## Control panel:

- Analogue dials 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
- kOhm-meter for media R in the 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.