Bench-Top PEF R&D Sterilization System SBS-PEF-SA-1A

Pulse parameters:

- Max. voltages **V**: 10 kV providing El fields from 5 kV/cm up to **25-30 kV/cm;**
- HV Switch – timed semiconductor switch to select pulsing as following:
- Rep. Rates, Hz**:** 4 fixed as per your request from 1 to 500Hz or gradual any value from 1Hz to 500Hz;
- Durations in µs: 4 fixed as per your request from 1 to 50µs or gradual any value from 1µs to 50µs;
- 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: A: 150w**;** Optional 300w.
- Selectable time for pulsing: **1s-1h**;
- Shape: positive rectangular, fronts of ca.1 µs.
- Flatness: 2% at 5µs: 10% at 20µs.

Size (LxHxB)/**Weight:** 100x46x46 cm /42 kg.

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

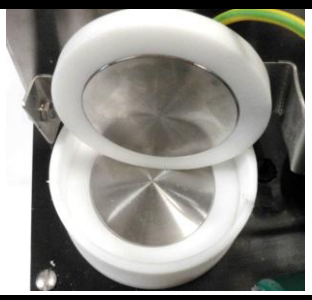
Control panel:

- Analogue diallers 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 parameters;

#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.

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