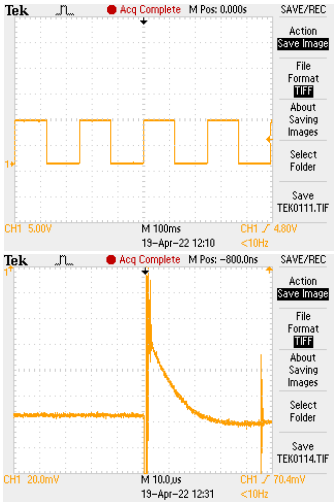
Bench-Top **PEF Sterilization R&D Device** WT-PEF-R&D-D1

Pulse parameters:



- Max. voltages: 15-17kV providing El fields 25-30 kV/cm.
- Max pulse current to media (Q/s), 0.1-5A *depending on V and media R w. min of ca. 100 Ohm).*
- Rep. Rates**:** 2&4Hz, or two custom from1 to 6Hz. Output for pulse generator at 4Hz and respective PEF pulse are on the right.
- PEF pulse duration at its 2/3 hight: ca. 5µs.
- Shape: positive with fronts of ca.1 µs and exponential tails.
- Recommended pulsing duration for one test: 5-25min.

Max. Size (LxHxB); 25x25x45cm, Weight: ca. 12 kg.

El. connection: 220-230 VAC, 3 A, 50-60 Hz.

#1. PEF Chambers to select from:

- ***a coaxial chamber***:

the active length L and the gap G are to be pre-selected between: L (50-150mm), G (3-5mm).

- Usage: disinfection of clear (no flakes) juices, inoculated water, flow is regulated 0.2-1 l/min through the 1l (or 0.5l) batch volume.
- a **co-liner,** direct flow, ID15mm, L30mm.
- ***a round cell with parallel electrodes for***

- sanitation of jells, jams, D80mm, gap 5-15 mm
- Juice Extraction from vegetative cells.

#2: Controls over PEF processes:

- T°C LCD meter for the T° in the batch;
- BNC outputs for Pulse generator and PEF voltage pulses.
- 2 Trace digital scope.
- System calibration /reference set-up for 1l water inoculated with 5 logs of E-coli 2 tests at 4Hz for 5 and 15 min.

#3: Simple to use & to clean:

- Interlocked, no access to HV or controls.
- Flashing /draining with distilled water.

Practical inexpensive PEF R&D Device

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