



# INTENSE PULSED UV SYSTEM XeMaticA-1L-SA

semi-automatic 1 lamp R&D system  
for evaluation tests in food, bio-medical and  
pharmaceutical applications:

- pulse energies from 100 J to 1000 J push-button dialled using an analogue Joule meter,
- 180° to 360° product exposure with side and bottom reflectors,
- Ozone and Mercury free.

EI connection: # 1: EU-standard: 235 VAC, 1 phase, 50-60 Hz, 200 w ave.

# 2: USA, Canada: 208 VAC, 1 phase, 50-60 Hz, 200 w ave.

Size, weight:

60 cm wide x 58 cm high x 48 cm deep, med-grade stainless-steel housing, weight 35 kg.

UV chamber:

- 24 cm wide x 24 cm high x 24 cm deep,
- all lined with Aluminum 99.8% reflectors,
- uniform UV flux on the sample shelf.

### Flash lamp type and spectra:

- Xe gas filled (no Mercury!) flash-lamp
- Flash lamp is water-cooled, removing IR (heat) from reaching samples, - NO HEAT WAVE on samples!
- Ozone free,
- 19 cm active length, or up to 50 J/cm length,
- UVC, UVB and UVA outputs increase with increase of a pulse energy,
- UVC or UVB water filled filters (to remove visible light) -optional,
- Max UVC flux on a product: 2J/cm<sup>2</sup>/pulse.

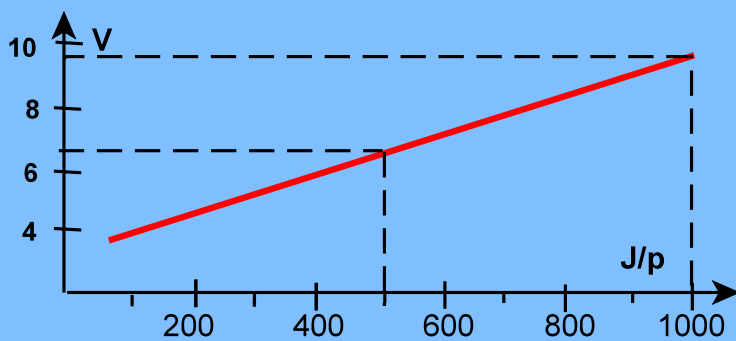
### Max Sterilization Efficiency:

bacteria- 3-6 logs /pulse, spores: 2-3 logs /pulse.

- distance between lamp module and a sample shelf is adjustable with a step of 2cm,
- Reflectors can be easily changed>.

**Safety:** during the system operational cycle the chamber door is automatically locked, no UV or EM fields leak out.

Analogue voltmeter 10 V to select pulse energies:



Water filled UVB or UVC filter between the water cooled flash lamp module and the sample shelf.

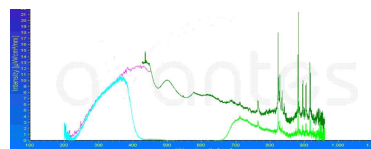


3 easy changeable reflectors with footprints 5x20 cm, 10x20 cm and 20x20 cm to vary UV density at any given lamp energy for variety of product sizes.

### Option 1: UV control:

- a free positioned UV sensor, in relative units in V on a PC Scope, also to measure a UV transparency of plastic foils.

Option 2: UVC or UVB filters to block visible and IR light:



Our PUV systems are in use worldwide and

were successfully tested in leading EU labs.