



## INTENSE PULSED UV SYSTEM

### XeMaticA-1-2L-SA-V2

semi-automatic 2 lamps R&D system



#### UV flash lamps and its efficiency:

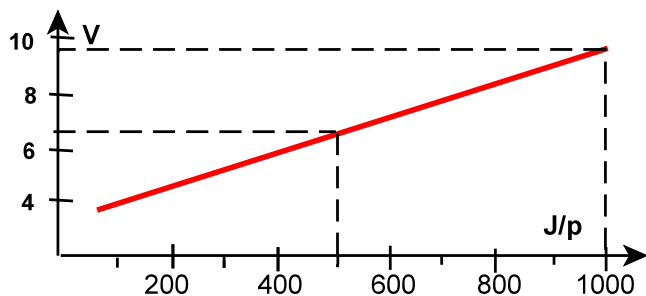
- Simple switching (by rotating a knob on the left to a full stop in/out) from operating one upper lamp (up to 1000J/p) to both lamps simultaneously.
- pulsing both flash lamps simultaneously divides stored energy equally between each flash lamp,
- Lamps are air-cooled with 19 cm active length,
- Both lamps are filled with Xe-gas (NO Mercury),
- Ozone + Infra Red free for water cooled version,
- up to 50 J/cm el. load for upper lamp alone,
- each selected pulse energy has its own UV output, table are in the manual,
- UVC fluxes on a product: up to 2.0 J/cm<sup>2</sup>/pulse,
- distance between lamps is adjustable with 2 cm,
- *Sterilization Efficiency* for bacteria:  
up to 6 logs /pulse, for spores: up to 4 logs /pulse.

#### 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:

(Dialling energy is by pushing the green button, firing a pulse-by the red button, the total cycle with the lamp cooling:1 min).



Our PUV systems are in use worldwide and

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for evaluation tests in food, bio-medical, pharmaceutical and cosmetic applications:

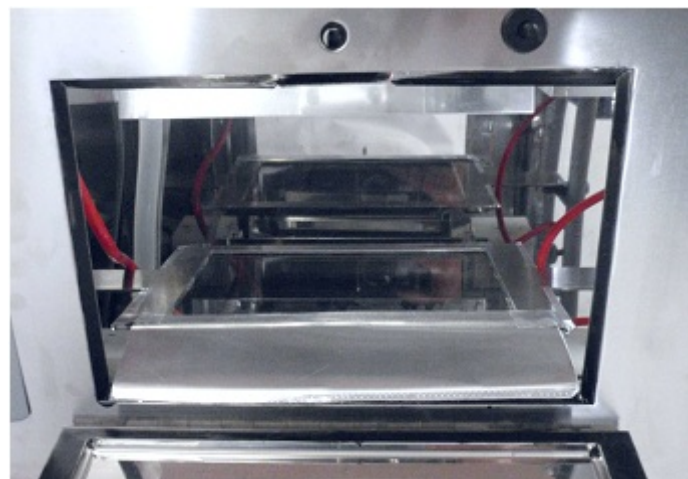
- pulse energies from 100J to 1000J;
- front DC Voltmeter calibrated in Joules;
- Operation of one or of both lamps with respectively 180° and 360° exposures.
- **UV chamber:**
- 18 cm wide x 24 cm high x 18 cm deep,
- UV flux is largely uniform between lamps due to installed side reflectors,
- sample shelf from a UV clear quartz.

**EI connection:** 208-240 VAC, one phase, 50-60 Hz, 300 w for air cooled, 1.5kw for water cooled.

#### Size, Weight, Enclosure Material:

60 cm wide x 40 cm high x 53 cm deep, polished stainless-steel, weight 42 kg.

**Below:** two horizontal Pulsed Light UV modules and UVC transparent quartz shelf between.



#### PAID OPTIONS:

##### #1: multi-pulse SA system V2-1 includes

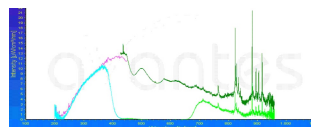
- water cooling of both PUV lamps,
- pulsing rates of 1 or 2 Hz by a selection switch,
- timed pulsing from 1s to 50s by a digital timer,
- pulsing of both lamps or of the upper lamp only.

##### Paid Option #2: UV control:

- free positioned UVC sensor with PC Scope, it can also measure UVC transparency of plastic foils.

##### Paid Option #3: UVC, UVB filters

to block visible and IR light:



were successfully tested in leading EU labs.

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