

An Introduction to Typhon UV LED





- ***** Typhon Treatment Systems who are we
- LED Technology
- **Benefits of the Typhon solution**
- **BIO-310 Reactor Design**

Typhon Treatment Systems





UVC-LED Technology



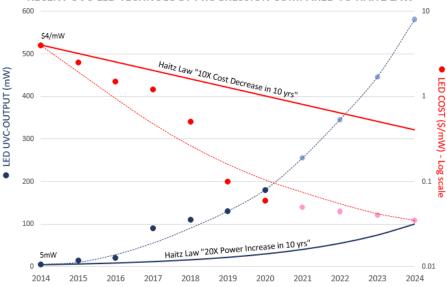
A Light Emitting Diode (LED) is a semiconductor light source

Junction Temperature	Drive Current	Forward Current	UVC Output	
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LED's deliver an exact output based on Temperature & Input

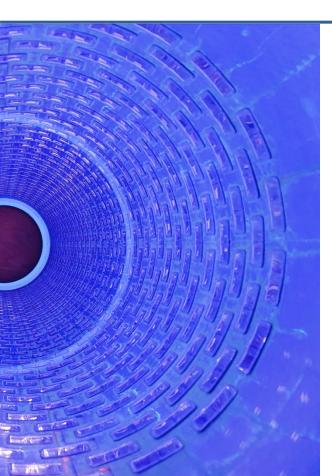
	LED	Hg Lamp
Lifetime (hrs)	20,000+	8,000 to 15,000
ON/OFF Cycles	Unlimited	4 per Day
Operating Temp	Ambient	100 to 600°C
Warm-up Time	100mS	Up to 10 min
Mercury Content	None	20-600mg+

RECENT UVC-LED TECHNOLOGY PROGRESSION COMPARED TO HAITZ LAW



Customer Benefits





- Proven Performance
 - USEPA UVDGM Validated
- Instant ON/OFF
 - * Realtime Dose Control & Dynamic LED Switching
- Low Maintenance
 - * No quartz scaling and in-built redundancy
- LED Evolution
 - * Increasing Asset Capacity and Decreasing Operating Costs
- Simple Installation
 - Fully built and tested in the factory with no separate Control Panel
- # Environmentally Friendly
 - * Mercury Free, Chemical Free Disinfection





Typhon UV LED Reactor Design





#IGH EFFICIENCY REACTOR maximising Germicidal, Optical and Hydraulic efficiencies

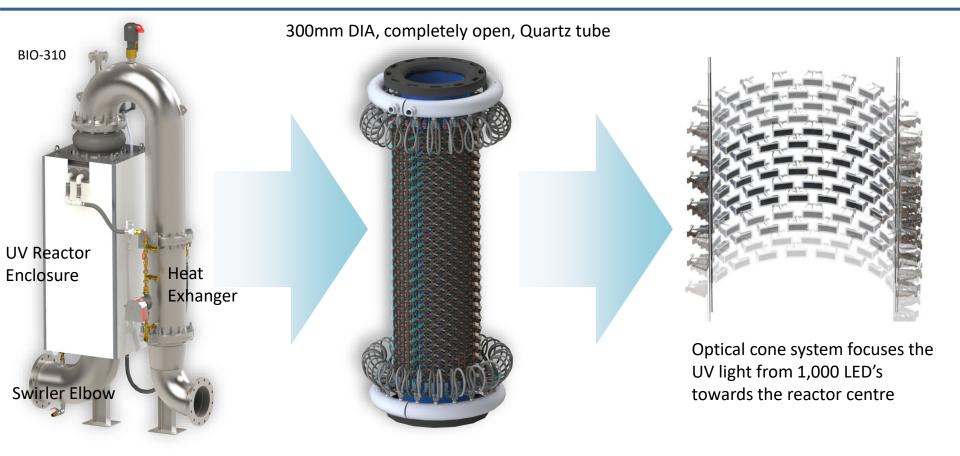
LOW MAINTENANCE with no quartz scaling and inbuilt redundancy.

DESIGNED TO INCORPORATE FUTURE GENERATIONS OF LEDS increasing performance and reducing costs through the operating life of the system.

SIMPLE INSTALLATION with no separate Control Panel

Typhon UV LED Reactor Design





Typhon UV LED Reactor Design





Reactor manufacture...



...and testing

Typhon UV LED





Typhon UV LED delivers Sustainable and Environmentally Friendly Drinking Water Disinfection UVC-LED technology is developing, in terms of power and efficiency... very quickly A Typhon system installed today will deliver Operational savings and Reliability in the short term... ...and an increasing asset capacity and decreasing operating costs through its Operational life.

For further information please email: info@typhontreatment.com