



Engineered Specifically for the Sanitation and Dechloramination of Commercial Pools & Spas

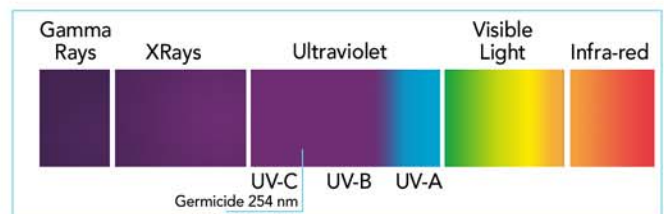
- NSF-50 Certification and cryptosporidium tested
- Continuous treatment for immediate disinfection and dechloramination
- Renders 99.99% of bacteria harmless
- UV-C rays allow the most effective and safe sanitation technology available
- Environmentally Friendly
- Improved water and air quality for bather comfort and safety
- For more information visit our website deltauv.com

Commercial pools are regulated under strict testing protocols. Local and National news frequently report on pool closures associated with outbreaks of Cryptosporidium and Giardia contamination. Delta-UV provides the most advanced technology available for the eradication of these micro-organisms and Chloramines removal. As the leader in ultraviolet sanitation solutions for pools and spas, Delta-UV offers a full product line of NSF-50 certified products for your application.

The EM Series offers bacteriological control results that exceed the standard requirements and provide the highest level of disinfection efficiency for "Crypto", Giardia and Toxoplasma and insure a high level of dechloramination.

The UV Principle

The sun emits invisible light – ultraviolet light. This natural phenomenon is reproduced inside the reactors of the Delta UV product range using powerful lamps, the result of leading edge technology, that emit UV-C rays. At 254 nanometers, the optimum wavelength for destroying micro-organisms (viruses, bacteria, algae, yeasts and mold, etc). UV-C rays penetrate to the heart of the DNA and disturb the metabolism of cells until they are totally destroyed. All germs are deactivated and they cannot reproduce.



The Delta-UV Advantage

- From 40 to more than 60% reduction in combined Chlorine (chloramines) in order to achieve a level of 0.2-0.3 ppm (depending on pool maintenance and number of swimmers)
- The EM range delivers 60 mJ at the end of the lamp's life assuring optimum dechloramination and disinfection efficiencies
- Average lamp life from up to 6,000 to 9,000 operating hours (depending on on/off cycles)
- The best efficiency for high flow rates
- Easy to install and maintain
- Automatic quartz wiper system
- UV-C sensor monitoring, flow control, temperature sensor within the electrical box and the reactor
- High power medium pressure and multi-wavelength lamps for reducing the necessary number of lamps and optimum wavelength for trichloramines
- Reactors made from micro-bitted and passivated 316L stainless steel
- 25-50% savings in water renewal costs
- Pays for itself in 9 to 36 months
- The use of electronic ballasts provides significant savings in electrical consumption
- Better comfort, better image
- More environmentally friendly

Effective Dose

The reactors in the Delta UV range are dimensioned according to the pump flow rate because it is a combination of the exposure time in the reactor and the power of the lamp(s) that will ensure that the necessary dose (expressed in millijoules per square centimeter or mJ/cm²) is sufficient to kill 99.99% of the micro-organisms (bacteria, viruses, "Crypto", etc.)

In the particular case of dechloramination, a dose of 60 mJ is essential in order to significantly reduce the level of chloramines, a noteworthy contributor to respiratory irritation and illness.

About Delta UV

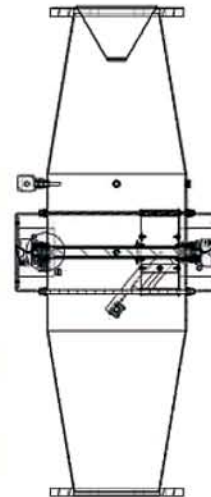
In 2003 BIO-UV, the parent company of Delta UV, developed and patented a special range of medium pressure UV reactors for disinfecting and dechlorinating commercial pools and spas. To date the BIO-UV/Delta-UV EM Series has been installed in thousands of commercial pools & spas throughout the United States and Europe.



Safer for you. Better for the environment.

EM Series Reactors (Medium Pressure Lamps)

Description	FLOW RATE at 60mJ/cm ²		Performance in millijoules per cm ² at maximum recommended flow rates	UV lamp: Number Power consumption at max. intensity end of lamp's life	Flanges size	Length of reactor
	GPM	m3/h				
EM130 EL	100	30	60 mJ/cm ²	1 x 0.6 kW	3"	18.60"
EM130 EL	170	40	60 mJ/cm ²	1 x 1 kW	3"	18.60"
EM300 EL	300	80	60 mJ/cm ²	1 x 1 kW	6"	46.46"
EM600 EL	600	140	60 mJ/cm ²	1 x 2.5 kW	6"	46.46"
EM1300 EL	1300	300	60 mJ/cm ²	1 x 4 kW	8"	50.39"
EM2000 EL	2000	450	60 mJ/cm ²	2 x 4 kW = 8 kW	10"	41.73"
EM3000 EL	3000	675	60 mJ/cm ²	3 x 4 kW = 12 kW	12"	30.31"
EM4000 EL	4000	900	60 mJ/cm ²	4 x 4 kW = 16 kW	12"	34.25"



These dimensions are provided as a guide; more precise details will be given at each order.

The performance of these devices has been calculated at the end of the lamp's life and with a transmittance of 98%

For additional flow rates (spas, hotels, etc...), please contact Delta UV regarding the ELP HO series.

Contact your dealer or visit us at deltauv.com for more information.

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