

**Delta UV<sup>®</sup>**  
an EVOQUA brand



## **DELTA UV<sup>®</sup> RESIDENTIAL ULTRAVIOLET DISINFECTION SYSTEMS**

**CLEANER, HEALTHIER WATER FOR POOL, SPA, POND AND WATER FEATURES**

A high-angle photograph of a swimming pool. The pool's surface is covered in light blue square tiles. A wooden deck with dark brown planks surrounds the pool. A metal ladder with two curved handrails is positioned on the deck, leading into the water. The water is clear and blue. A teal-colored text box is overlaid on the bottom right of the image.

## ABOUT US

Delta UV, an Evoqua brand, is an environmentally friendly choice for water disinfection. Our ultraviolet disinfection systems are engineered for residential pools, spas, ponds and water features.

Ultraviolet (UV) disinfection helps control algae growth and reduces chemical costs. It also deactivates chlorine resistant pathogens like Cryptosporidium and protects users with sensitive skin by allowing reduction in chemical usage.

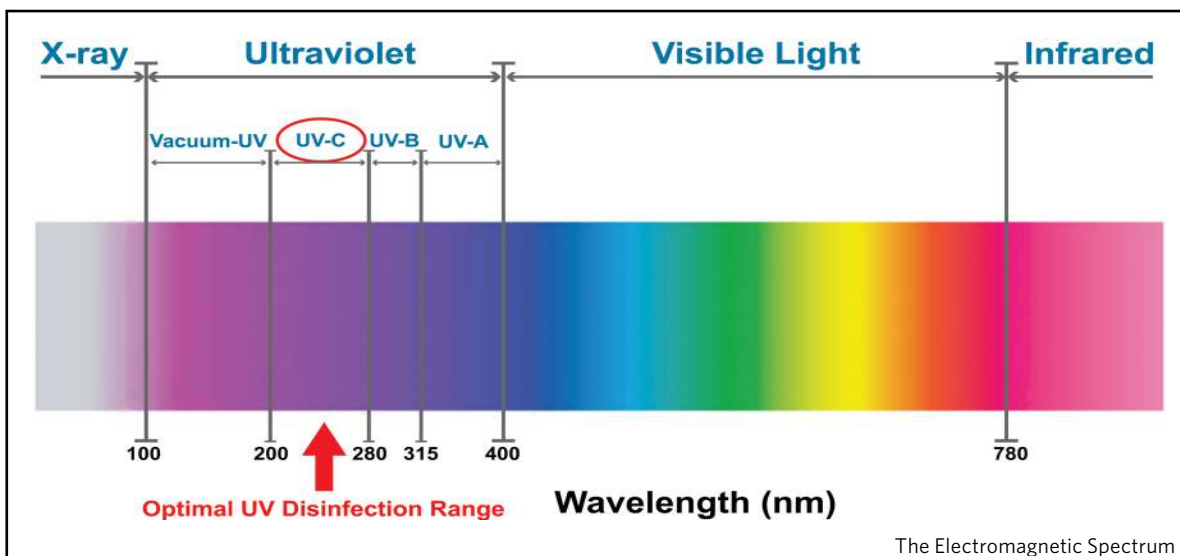
## WHY USE ULTRAVIOLET DISINFECTION?

Ultraviolet (UV) light is a natural, environmentally friendly way to disinfect water. Using UV as a secondary disinfection method allows you to decrease chlorine usage and provides several benefits:

- Reduced chlorine levels benefit users with sensitive skin and reduces chloramines
- UV adds additional protection against chlorine resistant pathogens like Cryptosporidium
- UV helps control algae growth
- It saves money by reducing chemical purchases

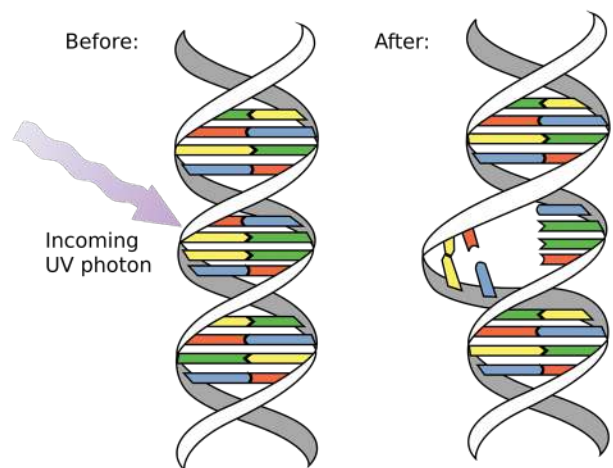
## WHAT IS UV LIGHT?

UV light is energy within the electromagnetic spectrum that has shorter wavelengths than that which are visible to the human eye. UV light is a range of electromagnetic waves from 100 to 400 nanometers (between x-ray and visible light).



## HOW UV DISINFECTION WORKS

UV light works by causing permanent damage to the DNA or RNA found in all living species. Once DNA becomes damaged, or dimerized, the organism is unable to carry out the routine cell functions of the respiration, the assimilation of food and replication; the organism is rendered non-viable. UV is the only disinfection alternative that is chemical free, therefore will not create chemical by-products. UV is also used for removal of organic and inorganic contaminants and breaks down chlorine (disinfection) by-products or DBP, called chloramines. Chloramine exposure commonly leads to stinging (red) eyes, skin irritations, asthma and allergies.




Source: NASA, Dave Herring.



## MEET THE DELTA UV® SYSTEMS FOR RESIDENTIAL POOLS

### INTRODUCING THE D SERIES

Sizing your UV system is important and based on flowrate. Models in this series range from 46 to 110 gallons per minute. The D series are similar to the E and series, however this series offers inline hardwired integration to perform automated treatment. The E series is a plug & play operation that runs independently from other treatment equipment.


D & DS Series	Models	Max. Flow Rate GPM	Dose mJ per cm <sup>2</sup> at Recommended Flow Rate	UV Lamp Power	Diameter of Chamber	Total Height	Inlet/Outlet Diameter
	<b>D 46</b>	46	30mJ/cm <sup>2</sup>	45W	8"	25"	2"
	<b>D 57</b>	57	30mJ/cm <sup>2</sup>	55W	8"	28"	2"
	<b>D 80</b>	80	30mJ/cm <sup>2</sup>	80W	8"	39"	2"
	<b>D 110</b>	110	30mJ/cm <sup>2</sup>	110W	8"	46"	2"
<b>Product Line Specifications</b>							
<b>Power Input</b>	120/240v 50/60hz			<b>Pressure Switch</b>	No		
<b>Housing</b>	PVC			<b>Indoor/Outdoor Installation</b>	Yes		
<b>Ballast</b>	Electronic, hardwired			<b>Limited Warranty</b>	2 years (18 month lamp pro-rated)		
<b>Lamp</b>	High output - low pressure (approx. 16,000 hrs)			<b>Plumbing Options</b>	2" PVC unions		

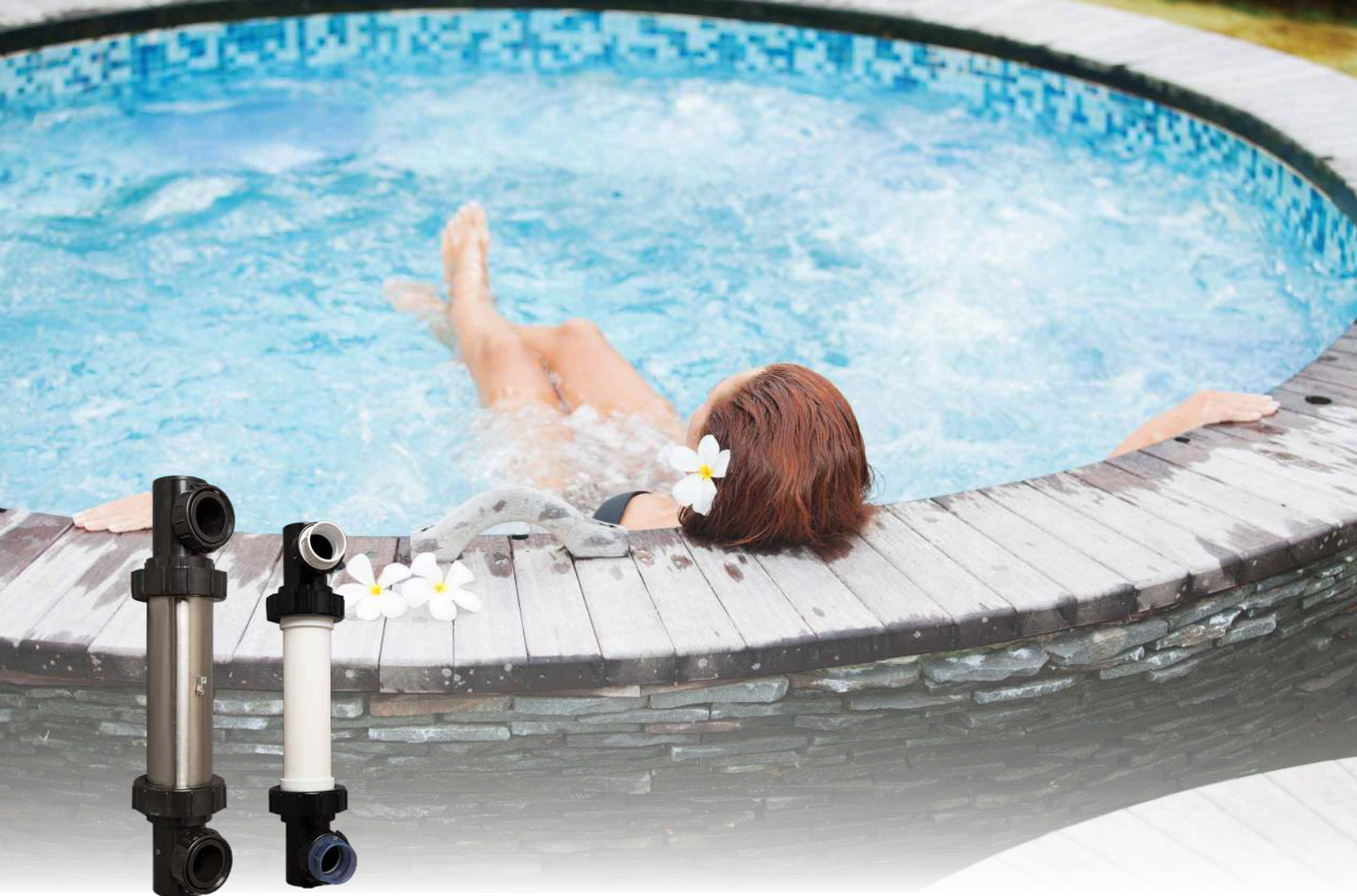


## MEET THE DELTA UV® SYSTEMS FOR RESIDENTIAL POOLS

### INTRODUCING THE E SERIES

Sizing your UV system is important and based on the flowrate. Models in this series range from 46 - 110 gallons per minute. The E series are similar to the D series, however this series is a plug & play operation that runs independently from other treatment equipment. The D offers inline hardwired integration to perform automated treatment.


E & ES Series	Models	Max. Flow Rate GPM	Dose mJ per cm <sup>2</sup> at Recommended Flow Rate	UV Lamp Power	Diameter of Chamber	Total Height	Inlet/Outlet Diameter
	<b>E 46</b>	46	30mJ/cm <sup>2</sup>	45W	8"	25"	2"
	<b>E 57</b>	57	30mJ/cm <sup>2</sup>	55W	8"	28"	2"
	<b>E 80</b>	80	30mJ/cm <sup>2</sup>	80W	8"	39"	2"
	<b>E 110</b>	110	30mJ/cm <sup>2</sup>	110W	8"	46"	2"
<b>Product Line Specifications</b>							
<b>Power Input</b>	120/240v 50/60hz			<b>Pressure Switch</b>	Yes		
<b>Housing</b>	PVC			<b>Indoor/Outdoor Installation</b>	Yes		
<b>Ballast</b>	Electronic, plug & play			<b>Limited Warranty</b>	2 years (18 month lamp pro-rated)		
<b>Lamp</b>	High output - low pressure (approx. 16,000 hrs)			<b>Plumbing Options</b>	2" PVC unions		



## MEET THE DELTA UV® SYSTEM FOR RESIDENTIAL SPAS

### INTRODUCING THE EA SERIES

Sizing your UV system is important and based on the flowrate. Models in this series range from 16 - 47 gallons per minute. The EA series can be adapted to most existing spas.

EA Series	Models	Max. Flow Rate GPM	Dose mJ per cm <sup>2</sup> at Recommended Flow Rate	UV Lamp Power	Diameter of Chamber	Total Height	Inlet/Outlet Diameter
	<b>EA4H 5</b>	16	30mJ/cm <sup>2</sup>	30W	4"	18"	2"
	<b>EA 4H 10</b>	20	30mJ/cm <sup>2</sup>	45W	4"	25"	2"
	<b>EA 4H 15</b>	33	30mJ/cm <sup>2</sup>	55W	4"	27"	2"
	<b>EA 4H 20</b>	42	30mJ/cm <sup>2</sup>	80W	4"	39"	2"
	<b>EA 4H 40</b>	47	30mJ/cm <sup>2</sup>	90W	4"	46"	2"
<b>Product Line Specifications</b>							
<b>Power Input</b>	120/240v 50/60hz			<b>Pressure Switch</b>	No		
<b>Housing</b>	3"-4" PVC or stainless			<b>Indoor/Outdoor Installation</b>	Yes		
<b>Ballast</b>	Electronic, plug and play or hardwired			<b>Limited Warranty</b>	2 years (18 month lamp pro-rated)		
<b>Lamp</b>	High output - low pressure (approx. 16,000 hrs.)			<b>Plumbing Options</b>	3/4" barbed tailed piece (circ systems)		




## DELTA UV® SYSTEMS FOR POND & WATER FEATURES

### INTRODUCING THE EP SERIES

Delta UV® disinfection systems effectively treat wide range of water features. Water features range from fountains, pools, ponds, cascades, waterfalls, and streams. These may include indoor or outdoor features varying size from a desk top water fountain to a large indoor waterfall covering an entire commercial wall. The varying features are constructed from a wide selection of materials that include stone, granite, stainless steel, resin, and glass. Delta UV clean light technology promotes crystal clear water that extends the life of water feature materials and allows the aesthetic beauty of the water feature to shine through.

Ponds intend to reproduce the effect of a natural process. So, when thinking about the water treatment of the pond, green alternatives and natural solutions are priority. UV water treatment is an appropriate solution because it eradicates harmful bacteria, and destroys algae without adding chemicals, only light.

Sizing your UV system is important and based on the flow rate. Models in this series range from 26-80 gallons per minute.

EP Series	Models	Max. Flow Rate GPM	Dose mJ per cm <sup>2</sup> at Recommended Flow Rate	UV Lamp Power	Diameter of Chamber	Total Height	Inlet/Outlet Diameter
	EP 5	26	30mJ/cm <sup>2</sup>	30W	6"	17.5"	2"
	EP 10	35	30mJ/cm <sup>2</sup>	45W	6"	24.5"	2"
	EP 15	53	30mJ/cm <sup>2</sup>	55W	6"	27.5"	2"
	EP 20	70	30mJ/cm <sup>2</sup>	80W	6"	38.75"	2"
	EP 40	80	30mJ/cm <sup>2</sup>	90W	6"	46"	2"
<b>Product Line Specifications</b>							
<b>Power Input</b>	120/240v 50/60hz			<b>Pressure Switch</b>	No		
<b>Housing</b>	Mirror-polished high quality stainless steel			<b>Indoor/Outdoor Installation</b>	Yes		
<b>Ballast</b>	Electronic, standard plug			<b>Limited Warranty</b>	2 years (18 month lamp pro-rated)		
<b>Lamp</b>	High output - low pressure (approx. 16,000 hrs.)			<b>Plumbing Options</b>	2" union and 3/4 barbed		



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