

*Coast Spas*

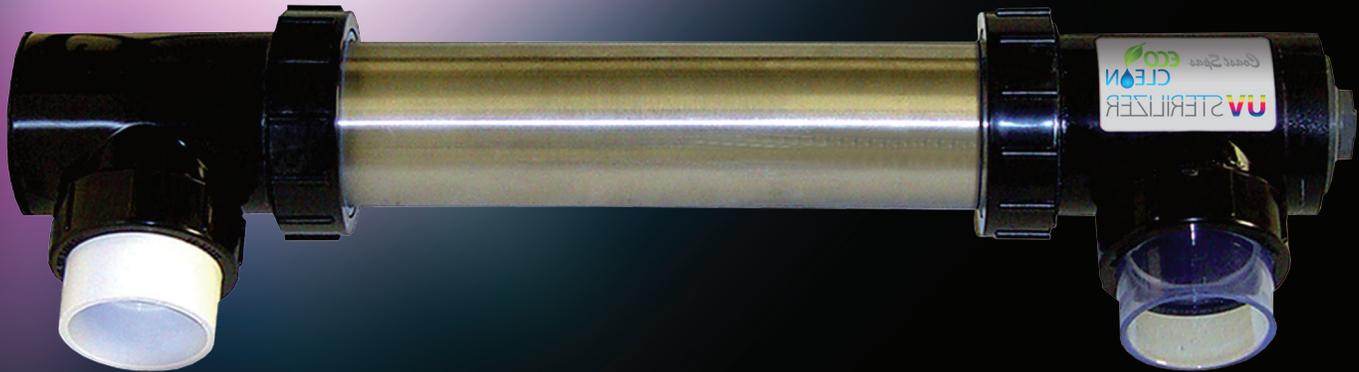
ECO CLEAN | UV STERILIZER

PRODUCT  
INFORMATION



HEALTH OFFICIALS ARE NOW RECOGNIZING THAT CERTAIN PATHOGENS IN THE WATER ARE RESISTANT TO CHLORINE AND OZONE.

- *Giardia can take up to 45 mins to become deactivated in chlorine*
- *Noro virus takes about 30-60 minutes to deactivate*
- *Crypto is highly resistant to chlorine and can linger in a pool for up to one week.*



## HOW IT WORKS

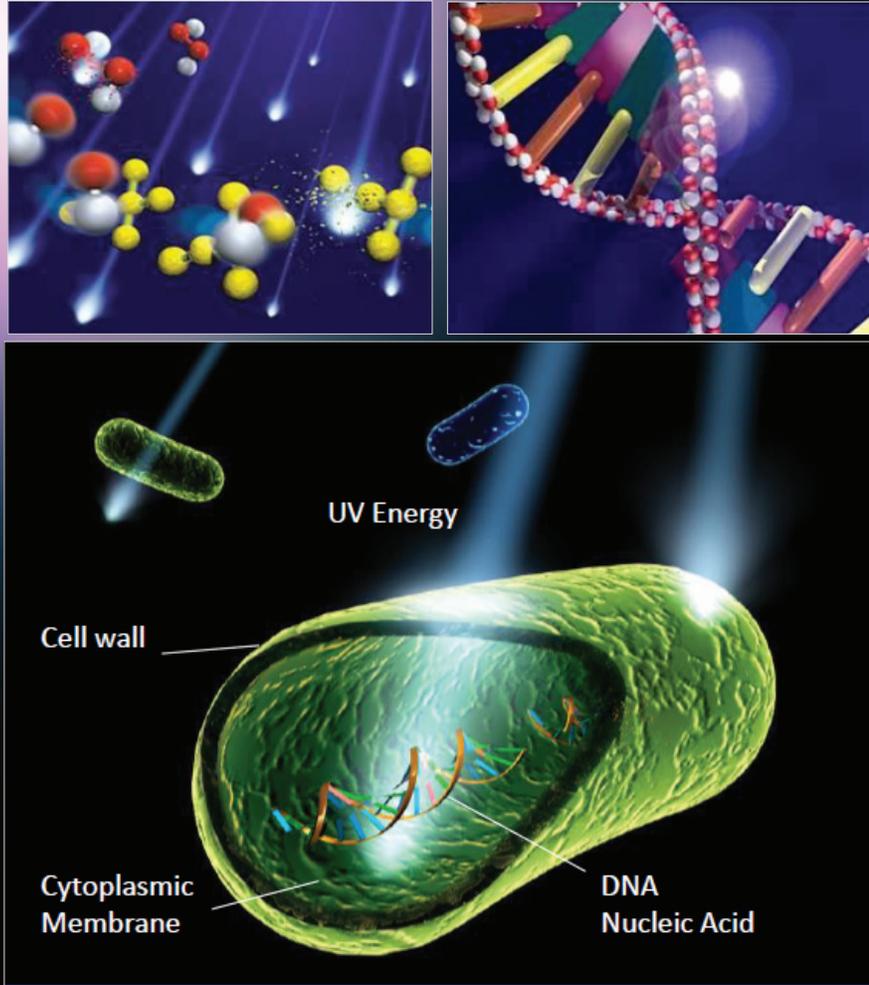
- *Ultraviolet germicidal UV lamps are low pressure mercury vapor lamps which produce the UV-C dose necessary for microorganism' s eradication.*
- *This dose (mJ/cm2) is the result of a design taking care of the flow rate, the water transmittance, reactor size and exposure time.*
- *Ultraviolet light is generated by an electrical discharge through low pressure inert gases and mercury vapor with the special quartz tube of the lamp.*
- *UV Rays generated at 254 Nm are germicidal at the optimal wavelength for eradicating micro-organisms*



**Germicide 254 nm**  
*Light Produced by the Coast Spas  
EcoClean UV Sanitizer*

## UV (ULTRAVIOLET) IS...

- *A type of electromagnetic energy*
- *Found between X-Rays and Visible Light*
- *Wavelength Range: 5 nm to 400nm*



## BACTERIA ERADICATION

- *UV light at the 254nm wavelength penetrates the cell wall of the microorganisms and disturbs their metabolism until they are totally inactivated then they cannot reproduce.*
- *Causes complete annihilation of bacteria and viruses through destruction of DNA with UV protons.*

# ECOCLEAN UV STERILIZER DELIVERS THE RIGHT DOSE

MIRCOORGANISM	UV-C Dose (mj/cm2)	MIRCOORGANISM	UV-C Dose (mj/cm2)
<b>Bacteria</b>		<b>Algae</b>	
<i>Bacillus Anthracis</i>	8.5	<i>Chlorella vulgaris</i>	22
<i>E.Colis</i>	7		
<i>Legionnella</i>	3.8	<b>Protozoa</b>	
<i>Pneumophila</i>	10	<i>Cryposporidium</i>	17
<i>Samonella enteridis</i>	7.8		
<i>Streptococcus Faecalis</i>	10	<b>Virus</b>	
<i>Vibrio Cholera</i>	6.5	<i>Hepatitis Virus</i>	8

## EASY MAINTENANCE

- Your NEW Coast Spas EcoClean UV Sterilizer is installed out of sight, concealed by your spa skirt. Quick access is gained through simply removing one skirt panel.
- Replacement of the UV lamp: Every 13 000 operating hours
- Clean quartz tube at time of lamp replacement (12 to 18 months)

## QUICK FACTS

- *The unique quartz tube of the EcoClean UV Sterilizer blocks out all but UV-C 254 Nm rays. Any less and a sterilizer is less effective for spas. Similarly, if a sterilizer exceeds this intensity, it will break down chlorine or bromine and be less effective as a result.*
- *Although you should keep your spa water balanced, balancing chemicals do not alter the effectiveness of the sterilizer, as it neutralizes 99.9% of viruses and bacteria.*
- *Because the EcoClean UV Sterilizer is eliminating chloramines and organisms in-line, the free chlorine or bromine, of which you still must maintain recommended levels, is more efficient – you can save up to 70% in sanitizing chemical use.*
- *Eradicates organisms that can actually live in a chlorinated environment.*
- *Your EcoClean UV Sterilizer imparts nothing into the water, making it an eco-friendly, reliable and effective choice.*
- *The sterilizers UV Bulb should be replaced and its protective quartz tube cleaned every 18 months.*
- *The UV-C rays of our sterilizer take care of in-line sanitation however, weekly shocking of the water is advisable to oxidize any chloramines or contaminants. An ozonator is also recommended as an excellent complimentary device for oxidation.*
- *Remember to keep the recommended free residual of chlorine or bromine in the water as required in your specific region (Canada 3 to 5 ppm of chlorine or bromine).*
- *Made in the U.S.A (UL/CE/EPA Approved)*