

designed for OEMS



IDEAL FOR USE IN...



GENERAL PURPOSE WATER TREATMENT



COMMERCIAL RO SKIDS



RURAL DRINKING WATER PURIFICATION PLANTS



WHOLE HOUSE PURIFICATION



VENDING MACHINES AND ICE CUBERS

FEATURES & BENEFITS

HIGH GRADE SS304L CHAMBERS

Using stainless steel direct from Salem Steel, each ECS Lite chamber is electropolished assuring better surface finish and corrosion free performance.

ADVANCED POWER SUPPLY

Perfectly matched and suited for the UV lamp, the new ECS Lite power supply provides upto 50% greater UV output as compared to local ballasts/power supplies which are typically designed for tubelights.

VALIDATED BY CFD TECHNOLOGY

Assured performance in a compact design. Uses same technology used to design rockets and formula one cars!

SUPERIOR QUALITY GENUINE QUARTZ

Each ECS Lite uses only genuine high purity fused silica Quartz directly imported by Alfaa UV. Better quartz = better efficiency.

RELIABLE PERFORMANCE, EASY AVAILABILITY, LOWER PRICES

At Alfaa UV, we continuously innovate to give you the optimum quality at the most affordable and competitive rates. The Ecostream Lite UV range is no exception. New in design, very compact and highly efficient, with the stamp of Alfaa's focus on quality: high grade electro polished stainless steel, and a superior leak proof design. At prices that make you smile!

Alfaa is passionate about being the UV leader and has expanded its distribution to meet the needs of OEMs across the country. Ordering the Ecostream Lite UV purifiers for use in your projects is easier than ever, with resellers located across the country. Be it a small order or a large one, our resellers will be happy to service your orders instantly.



Current Industry Trends

UV disinfection is increasingly being used **pre-RO** to increase the life of the RO membrane. Studies have shown that the use of UV can increase the membrane life by upto 60%.

The use of UV has increased dramatically in **swimming pools and spas**. Using UV significantly improves the experience for swimmers by reducing skin rashes and red itching eyes. It has also shown to help patients suffering with Asthma and at the same time reduce maintenance time and costs for the swimming pool operators.

Strategically installing a UV system at the **Point of Entry (POE)** of a home, office, school, or any building can greatly reduce both capital and recurring costs as against installing Point of Use purifiers at every user point. It has the additional benefit of ensuring the pipelines in the building stay clean and free of dangerous disease carrying biofilms.

Contact us today for more applications



Range Chart & Technical Specifications

Model		ECS04L	ECS07L	ECS115L	ECS25L	ECS40L	ECS70L
Flow Rate @ 98% UVT EOL	US Public Health (LPH)	400 LPH	650 LPH	750 LPH	2,600 LPH	4,000 LPH	7,000 LPH
	AUV Standard (LPH)	250 LPH	400 LPH	650 LPH	1,380 LPH	2,100 LPH	4,500 LPH
Inlet/Outlet Size		¼" BSP (M)	½" BSP (M)	½" BSP (M)	¾" BSP (M)	1" BSP (M)	1½" BSP (M)
Reactor Chamber MOC		SS304L (Pid, and Electropolished)					
Lamp Sleeve MOC		High Purity Fused Silica; UVT > 95%					
O-rings and Seals MOC		Food Grade S FDA 21 CFR 177.2600					
Operating Voltage		Hz (±10%)					
UV Lamp Failure Circuit		Protected					
Lamp Power Supply Type		Constant Current, Hipecially Designed for UV Lamps)					
Maximum Operating Pressure		psi					
Recommended Water Temperature		Celsius					

Above sizing is based on a 98% UVT which is typical for RO/DM outlet water. In case your water quese contact us for appropriate sizing. Technical specifications are constantly being improved and are subject to change at any time. Please contact us in case of any i

Tips for OEMS and System Integrators

Q: What is UV pre-treatment and why is it important?

Ultraviolet disinfection is an extremely effective way to combat microbiological contamination in water. However, microbes have to be exposed to UV-C light in the proper amounts in order to effectively disinfect the water. UVT and turbidity are the most important parameters. Most UV systems can function well at UVT values from 95-98%. In order to reach this UVT level in unknown quality water, pre-treatment might be required. Further, turbidity should be < 5 NTU and pre-filtration is recommended.



Q: Do UV systems need any periodic maintenance?

There are only two components in the system that require regular maintenance - the lamp and the quartz sleeve. If the water has been adequately pre-treated and the turbidity along with total hardness levels are very low, routine inspection and cleaning can be carried out every 6 months. In case of higher turbidity and hardness, and in cases of intermittent usage, the inspection and cleaning frequency might need to be increased. Finally, the UV lamp has a limited life, and must be replaced once this is exhausted. In case of premature failure of lamp, the lamp monitoring circuit will provide a visual warning to advise immediate lamp replacement.



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