# designed for OEMS

ALFA® THE UV EXPERT


*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 SS304 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.

ecostreamUV lite

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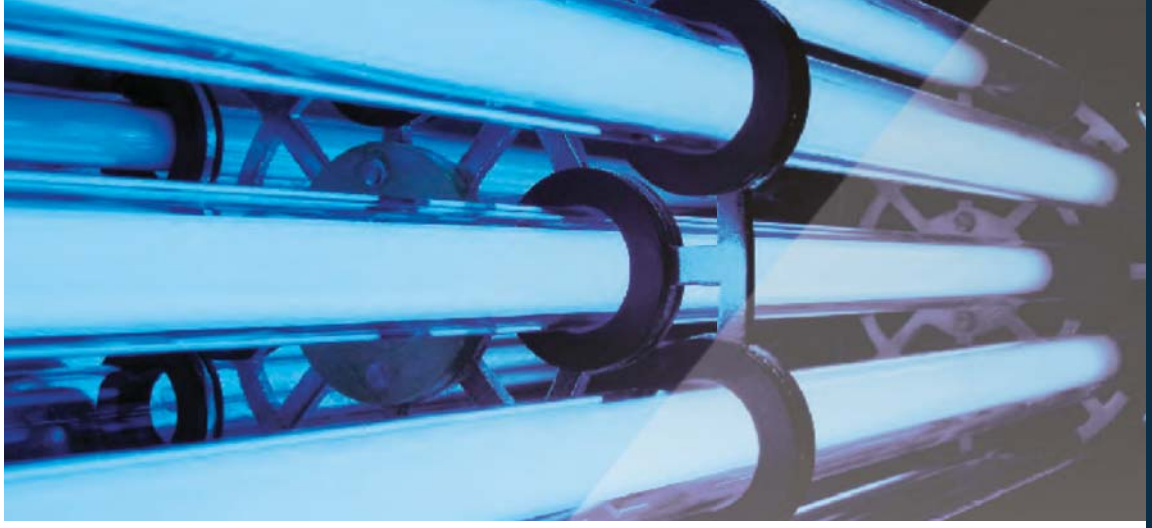

## EYE ON UV
## Current Industry Trends

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 piplines 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 | ECS10L | ECS15L | ECS25L | ECS40L | ECS70L |
|---|---|---|---|---|---|---|---|---|
| Flow Rate @ 98% UVT EOL | US Public Health (LPH) | 250 LPH | 650 LPH | 750 LPH | 1,290 LPH | 2,600 LPH | 4,000 LPH | 7,000 LPH |
| | AUV Standard (LPH) | 200 LPH | 400 LPH | 650 LPH | 750 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) | ¾" BSP (M) | 1" BSP (M) | 1½" BSP (M) |
| Reactor Chamber MOC | | SS304 (Pickled, Passivated, and Electropolished) | | | | | | |
| Lamp Sleeve MOC | | High Purity Fused Quartz (99.99% Pure Silica; UVT > 95%) | | | | | | |
| O-rings and Seals MOC | | Food Grade EPDM (as per US FDA 21 CFR 177.2600) | | | | | | |
| Operating Voltage | | 230V / 50-60 Hz (±10%) | | | | | | |
| UV Lamp Failure Circuit | | Included | | | | | | |
| Lamp Power Supply Type | | Constant Current, High Frequency (Specially Designed for UV Lamps) | | | | | | |
| Maximum Operating Pressure | | 75 psi | | | | | | |
| Recommended Water Temperature | | 18° - 40° Celsius | | | | | | |

*Above sizing is based on a 98% UVT which is typical for RO/DM outlet water. In case your water quality is different please 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 doubt.*

## 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 pre-mature failure of lamp, the lamp monitoring circuit will provide a visual warning to advise immediate lamp replacement.

*Authorized Reseller Stamp*

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