



## Synergy LTS AOP

Expandable Secondary  
Disinfection System



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Synergy LTS is an expandable AOP (Advanced Oxidation Process) system that combines UV and ozone to deliver powerful secondary disinfection with the ability to scale as your facility grows. Using the AOP reaction of UV light and ozone, the system generates highly reactive hydroxyl radicals that break down chloramines, destroy organic contaminants, and neutralise waterborne pathogens such as Giardia and Cryptosporidium.

As a modular secondary disinfection system, Synergy LTS is engineered for facilities expecting increased bather load or planning staged upgrades. Its expandable design allows operators to increase oxidation capacity without replacing the core system, providing long-term flexibility, improved water quality, and enhanced indoor air quality.

### Key Benefits

- ◆ Commercial-grade titanium/quartz corona discharge ozone module
- ◆ Reactor compatible with salt, mineral, calcium, and bromide systems
- ◆ Automatic interlock to UV output
- ◆ Single GPO output for an optional ozone booster pump
- ◆ Remote start/stop function
- ◆ Lamp change indicator and UV monitor
- ◆ 4-20mA UV intensity signal
- ◆ UV ballast designed for high performance and reliability



### Applications

The Synergy LTS AOP system is designed for commercial aquatic environments with high or increasing bather loads. Ideal for:

- ◆ Swim schools
- ◆ Hotels and resorts
- ◆ Spas and wellness centres
- ◆ Owners' corporation and strata pools
- ◆ Water features and fountains
- ◆ Children's splash and wet play areas



## Advanced Oxidation Process (AOP)

Advanced Oxidation Process (AOP) is one of the most effective ways to keep pool water clean and safe. It works by creating hydroxyl radicals, extremely powerful oxidisers, that break down harmful contaminants at a molecular level. This process goes beyond what chlorine alone can do, targeting even the toughest bacteria and organic matter.

Compared with traditional methods like chlorine, UV, or ozone on their own, AOP delivers fresher, clearer water with fewer chemicals. It helps reduce eye and skin irritation by cutting down chloramines (the cause of 'pool smell'), lowers ongoing chemical costs, and creates a healthier swimming environment while still meeting strict safety standards.

### Upgrade Options

- ◆ BMS integration and fault/status relays
- ◆ Remote monitoring modem (via Waterlink)
- ◆ Automated sleeve wiper system
- ◆ Ozone booster pump and injection manifold
- ◆ Outlet strainer
- ◆ Custom specifications available on request (subject to review)



### Models

Model	Maximum Flow Rate
LTS 1	40m <sup>3</sup> /hr
LTS 2	80m <sup>3</sup> /hr
LTS 3	120m <sup>3</sup> /hr

### Specifications

Features	Value
Power Supply	240 VAC 50 hz
Minimum Circuit Amps	20 A (with booster pump)
Power Consumption	0.7–2.4 kW (1 to 3 lamps, no booster)
Maximum Booster Pump	1 kW
Water Connections	4" flanges
UV Chamber Dimensions*	1295 mm (L) × 350 mm (W)
Power Centre Dimensions	800mm (H), 600mm (W), 300mm (D) IP66 rated Gland Plate

\*Allow 600mm height for the ozone injection assembly. This **must be mounted** on the inlet side of the UV chamber.



### System Compatibility

Compatible with most commercial pool systems. Integration support available via Waterlink's technical team.



### Warranty

Waterlink systems are built for durability. This product is backed by our standard commercial warranty. For full warranty terms and coverage, please visit [www.waterlink.com/warranty](http://www.waterlink.com/warranty)



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## Looking for More Solutions?

The Synergy range includes multiple system variations designed to suit different pool sizes, bather loads and operational requirements, from simpler configurations through to advanced secondary disinfection solutions.

**Contact our team to receive a tailored quote.**