



Company Background

In brief...

Advanced UV, Inc., designs and manufactures ultraviolet (UV) water purification equipment for pure and ultrapure applications including microelectronics, biopharmaceutical, food, beverage and power generation.

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Overview...

Few companies, if any, have a better understanding of how ultraviolet technology performs... especially in water.

Advanced UV, Inc., Inc. is a U.S. based manufacturer and supplier of premium ultraviolet water treatment systems. The company serves multiple industries and is a primary supplier of TOC Reduction equipment for the microelectronics and other ultrapure water industries. Other competencies include ultraviolet systems for disinfection, ozone destruction and dechlorination applications.

Advanced UV, Inc. was originally founded in 1996 as the manufacturing arm of Photoscience of Japan, a major supplier of equipment for the microelectronics industry. The companies pooled their resources to engineer, develop and produce high performance ultraviolet equipment that is second to none in performance, quality and reliability. As a result, Advanced UV, Inc. and Photoscience of Japan have become the largest suppliers of ultraviolet systems for TOC reduction throughout the Asian marketplace. The organization is now in the process of expanding its presence in Europe and the Americas.

Our formula for success is simple. We utilize a diverse pool of exceptional talent. Many of the company's frontline employees are seasoned veterans from the ultraviolet water treatment industry and many have over ten years experience in ultraviolet water treatment systems.

Advanced UV, Inc. has invested heavily in ultraviolet technology, incorporating the latest real world technology into our designs. We utilize a complete ultrapure water treatment system operating 24/7 to further refine our capabilities and technology.

Technology...

UV was first established in the early 1900's for air and water purification. Even with ensuing advancements in technology, dose calculations and capacities are still based on UV output in air and then interpolated for water. Since Advanced UV is in the water business, all of our dose calculations are based on UV output in water -- which differentiates our systems from our competitors. Other manufacturers are not cognizant of what happens to UV intensity in water.

One of the major challenges affecting UV manufacturers today is the development of the electronic ballast. Today's off-the-shelf electronic ballasts are touted as increasing intensity, reducing weight and saving power. But off-the-shelf electronic ballasts don't necessarily drive a lamp at its optimal level and sometimes causes increased power usage and decreased performance. This is a growing problem because as UV lamp suppliers move away from magnet ballasts, UV manufacturers are left with few options other than off the shelf technology.

Advanced UV offers a matched power supply and lamp that optimizes UV output. High-performance, low-pressure lamps coupled with matched, electronic ballasts produce the highest intensity levels. Using custom ballasts matched for a specific application, Advanced UV can increase performance by 20% or more over leading electronic ballasts or other off-the-shelf general use electronic ballast

Key Products...

Ultrapure water is needed for a variety of industries: Microelectronics, Pharmaceutical / Biotech, Medical, Food and Beverage. Pure water is required for: Cooling Towers, Chillers, Refineries, Aquaculture, Fountain Water and Reuse. Advanced UV, Inc. has a system to meet the needs of most industries and applications.

TOC Reduction

The AUV-TOC Reduction Series uses the latest Advanced UV, Inc. technology to decimate TOC (total oxidizable carbon) levels in pure water applications. Delivering the maximum output of UV at a 185 nm wavelength, these high output units are effective and energy efficient — a claim that is especially apparent when you compare our standard product to our competitor's off-the-shelf technology.

Our customized modeling software program allows Advanced UV, Inc. to size TOC reduction systems according to a customer's particular makeup and polishing loop specifications and requirements. Just provide AUV with few estimated operating parameters regarding the system and in a couple seconds we will calculate the recommended number of lamps for each application and we will identify the necessary power consumption required to operate the equipment. Not only is our software program going to help you size your equipment, this data is based on actual real world data modeled after typical organics found in today's UPW systems...not an antiquated 3X, 6X or 10X over sizing model based on a 254nm wavelength.

Disinfection and Ozone Reduction

Advanced UV, Inc.-ST ultraviolet disinfection and ozone destruction equipment provides an efficient and chemical-free alternative to multiple applications that are sensitive to

microbial contamination and oxidation by ozone. Units incorporate an integral electrical enclosure offering a high level of electrical protection while simplifying installation and operational management of the equipment. All units can stand-alone or be incorporated into an optional skid-mounted system and are available in horizontal or vertical models.

Electronic Ballasts and UV Lamps

Because Advanced UV, Inc. measures lamp output in water, performance data results are actual, not interpolated. Based on this real data, we developed lamps with a unique combination of gases and long-lasting custom filaments to maximize performance where it's needed — in water.

These high-performance lamps are coupled with matched, electronic ballasts that produce some of the industry's highest intensity levels. Using custom ballasts matched for a specific application, Advanced UV, Inc. can increase performance by 20% over leading off-the-shelf components – and sometimes more, in both 185 and 254nm lamps. By driving the lamps correctly, we can guarantee 9000-hour lamp life, better TOC reduction and less maintenance costs.