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## Ultraviolet (UV) Disinfection Equipment

Siemens Water Technologies offers a complete range of ultraviolet (UV) disinfection solutions for municipal drinking water, industrial, commercial, aquatic and high-purity applications.



UV irradiation can be used for multiple purposes in water treatment, but is primarily employed as a disinfection process that inactivates waterborne pathogens without chemicals. For other applications, UV is used for the removal of organic and inorganic chemicals, including chlorine, chloramines, ozone and Total Organic Carbon (TOC). When combined with oxidants such as ozone or hydrogen peroxide, or semiconductors such as titanium dioxide, UV can be used for the oxidation of refractory chemicals such as chlorinated solvents, taste and odor compounds, and other emerging contaminants.

### The UV Technology Advantage

The advantages of UV disinfection have been realized and the technology successfully employed world wide for decades. The primary advantage of being able to effectively control all types of microorganisms, including those which are chlorine-resistant, without chemicals has numerous benefits for municipal, industrial, commercial and aquatics customers. In addition to disinfection, UV is also very effective for TOC removal, destruction of chlorine, chloramines and ozone.

- Improves disinfection efficacy
- Reduces environmental, health and safety risks
- Eliminates formation of disinfection by-products
- Does not alter the aesthetic qualities of the water
- Eliminates any concerns with "over dosing"

Find the right UV disinfection solution that's right for you. Use the tables below to browse our products by application or by technology.

Applications	Lamp Technology	Capacity per Reactor (1)	
		US gpm	m <sup>3</sup> /hr
➤ Municipal drinking water	LP/A, MP	60 to 5,900	15 to 1300
➤ Commercial & Industrial	LP, LP/HO, LP/A, MP	1 to 5,900	0.2 to 1300
➤ Aquatics, leisure and pools	MP	80 to 4300	20 to 980

  

Technologies	Lamp Technology	Capacity per Reactor (1)	
		US gpm	m <sup>3</sup> /hr
Closed-vessel systems for high capacity treatment			
➤ Barrier® M	MP	100 to 5,900	23 to 1,300
➤ Barrier® A	LP/A	60 to 300	15 to 70
High-purity industrial UV sterilizers			
➤ ZCS Series	LP	1 to 156	0.2 to 35
➤ ZCT Series	LP	3 to 140	0.7 to 32
➤ ZHX Series	LP/HO	45 to 405	10 to 92

(1) Nominal capacities only. See product literature for details.

**See how ultraviolet light is used in these applications:**

- [Drinking Water Disinfection](#)
- [Drinking Water TOC Reduction](#)
- [Aquatic Water Treatment](#)

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**Contact Us**

For more information about UV Disinfection, contact the Information Desk, Monday through Friday, 8 a.m. to 5 p.m., Eastern Standard Time: 1.724.772.1402 or [information.water@siemens.com](mailto:information.water@siemens.com).

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**UV Disinfection Case Study**

**Siemens Helps NCAA Diving Champions Breathe Easier**

Texas A&M University in College Station, Texas is the second school in NCAA history to host the NCAA Division I Men and Women's Swimming and Diving Championships in successive weeks during March 2009. "We are excited to bring both swimming national championships to College Station," Texas A&M director of athletics Bill Byrne said. "Our swimming program is on the rise and we have one of the finest facilities in the country with which to host this event. We are serious about 'Building Champions' at Texas A&M and we believe that hosting this event is one of the steps we can take to get that job done."

- [Read Full Case Study](#)



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