

UV-C Doses

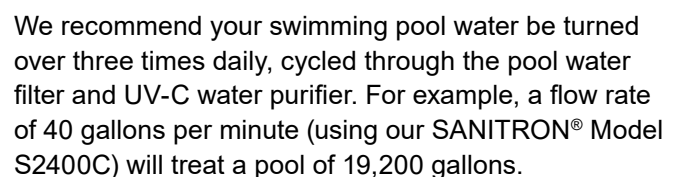
The UV-C doses below will inactivate bacteria and viruses that are commonly found in swimming pools and hot tubs. Millijoules per square centimeter (mJ/cm²) is the measurement of energy produced by germicidal lamps over a certain amount of time.

Microorganism	UV Dose (mJ/cm²)
Salmonella	7.60
Shigella	7.0
E. coli	6.60
Rotovirus	24.0
Giardia	100.0
P. Aeruginosa	3.90
Coxsackievirus	6.30
Legionella	12.30
Hepatitis A	8.0

CDC, Cryptosporidiosis Outbreaks ³

Sizing and Installation

We offer UV solutions to meet wide-ranging water volume scenarios—as large as a water park or as small as a backyard swimming pool and hot tub. Please see our recommended product lines on the next page and contact a UV application specialist for help determining the properly-sized system for your needs.



Usually, customers can greatly reduce their chlorine use. However, chlorine concentration levels should be kept high enough to prevent reduction in water quality or increase in bacteria levels. Be sure to frequently test and carefully observe your pool water, particularly right after installation. This practice will make you aware of the purifier's operating characteristics and ensure the desired results are achieved.

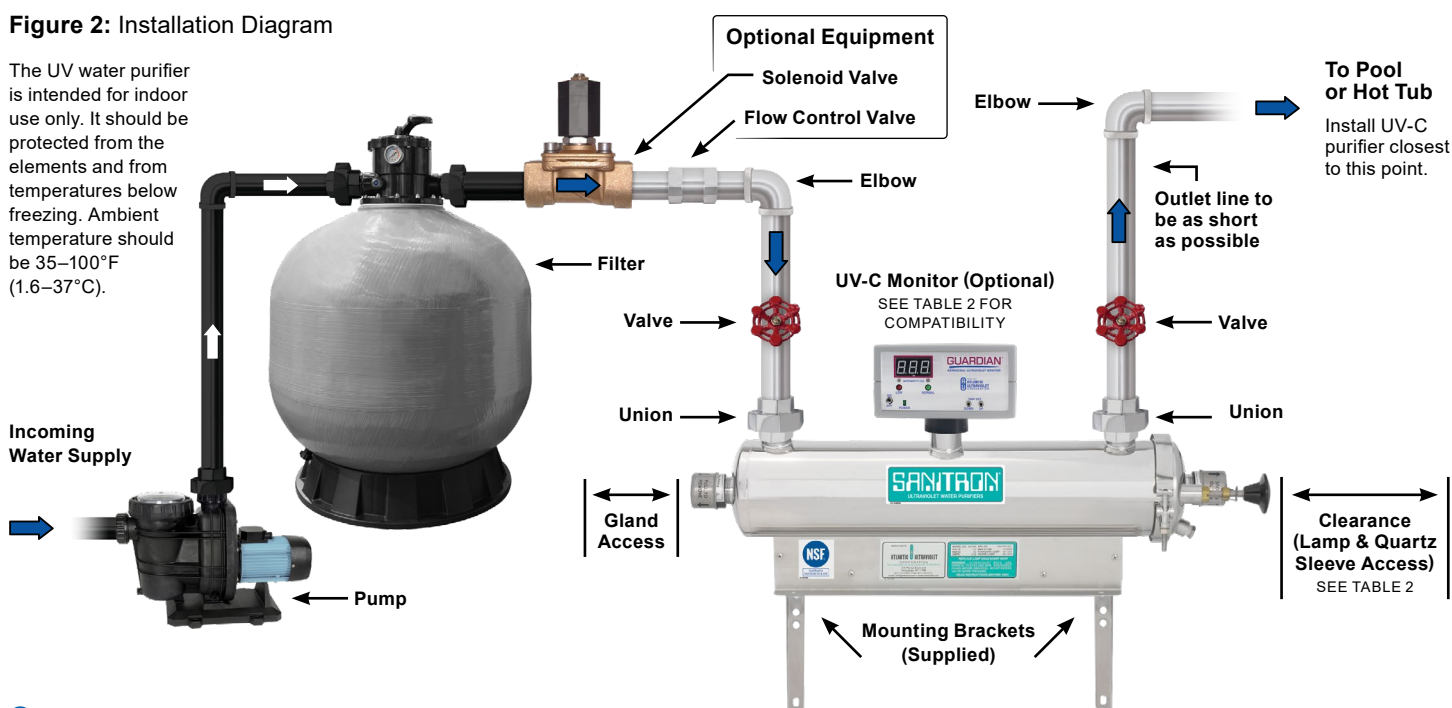
Because illness outbreaks associated with aquatic centers have vastly increased in recent years, the CDC's Model Aquatic Health Code recommends a supplemental water treatment such as UV disinfection.⁴

Table 2: Comparison of UV Water Purifier Models

Feature	Swimming Pools		Hot Tubs	
	Sanitron®	Megatron®	Minipure®	Mighty Pure®
Flow Rate (GPM)	3–40	90–450	1–9	3–20
Min. Clearance (Lamp/Quartz)	17–50"	71"	10¾–29"	16–49"
Min. Clearance (Gland Access)	6"	12–24"	6"	6"
Lamp Indicator(s)		✓	✓	
Sight Port	✓	✓	✓	✓
Drain Fitting(s)	✓	✓		✓
HMI Touchscreen		✓		
Dual-Action Wiper	Manual	Manual or Auto		
UV Monitor	Optional	Standard		Optional
Audio Alarm	Optional		Standard	Optional
Solenoid Valve	Optional		Optional	Optional
Flow Control Valve	Optional		Optional	Optional

Figure 2: Installation Diagram

The UV water purifier is intended for indoor use only. It should be protected from the elements and from temperatures below freezing. Ambient temperature should be 35–100°F (1.6–37°C).



Sources

1. CDC, *MMWR*: Vol. 62 / No. 19, May 17, 2013, <https://www.cdc.gov/mmwr/pdf/wk/mm6219.pdf>
2. CDC, *Healthy Swimming: Preventing Swimming-related Illnesses*, <https://www.cdc.gov/healthy-swimming/prevention/>
3. CDC, *MMWR*: Vol. 68 / No. 25, June 28, 2019 <https://www.cdc.gov/mmwr/volumes/68/wr/mm6825a3.htm>
4. CDC, *MMWR*: Vol. 70 / No. 20, May 21, 2021, <https://www.cdc.gov/mmwr/volumes/70/wr/mm7020a1.htm>



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