

Wallace & Tiernan® UV Disinfection Systems Barrier® Sunlight V UV Systems

Product Overview

The Barrier® Sunlight V Series of UV systems are designed to treat unlimited flows. The most significant features are their vertical orientation, small footprint, ease of operation and low maintenance.

The systems come standard with vertically oriented stainless steel modules, remote modified IP56 (NEMA 4X) power distribution centers, automatic air-driven quartz cleaning systems and integrated liquid and air electronics cooling. The product line has modules to handle both plants that require lower water levels with the VR Series 762 mm (30") and those with higher water levels with the VE Series 1524 mm (60").

Applications

- Municipal wastewater treatment plants

Standard Features

- Stainless steel disinfection modules
- Local window kits for instrumentation
- Low pressure high output (HO) or amalgam lamp technology with 12,000 hour lamp life
- Energy efficient electronic ballasts
- High heat protection
- Integrated liquid and air ballast cooling

Optional Features

- Module-by-module flow or dose pacing
- 4-20mA output or dry contact alarms
- Hand-Off-Auto switches (HOA)
- Fixed or automatic level control
- Hoist
- Cleaning tanks
- Pre-designed for integration of future modules
- Redundant modules
- On-line UV transmittance monitoring
- Remote ballast configuration
- Air conditioning for harsh environments

Key Benefits

- Energy-efficient electronic ballasts reduce operating costs and ensure fast response upon energizing
- Small footprint and easy integration into existing chlorine contact channels, reducing installations and construction costs
- Easy access to lamps reduces maintenance costs and promotes operator safety; all electrical connections above the water line for safety
- Integrated closed-loop ballast cooling system eliminates need for air conditioning
- Automatic flow pacing through partial module switching for reduced energy consumption and extended lamp life



Product Line Sheet

Technical Data

Barrier® Sunlight V Series of UV Systems

Model	Capacity ¹		Lamp Technology	Lamp Power (W)	Electrical Supply (V-Hz)	Number of Lamps	Weight		Water Level		Basic Channel Dimensions ² (H x W)
	m ³ /h	mgd					kg	lbs	mm	in	
V-40R-HO	157.7	1	High output	80	120 50/60	40	136	300	762	30	1016 x 584 mm (40" x 23")
V-40R-A150	276	1.75	Amalgam	150	230 50/60	40	136	300	762	30	1016 x 584 mm (40" x 23")
V-40E-HO	315.4	2	High output	155	230 50/60	40	170	375	1524	60	1778 x 584 mm (70" x 23")
V-30E-A300	394.3	2.5	Amalgam	320	230 50/60	30	170	375	1524	60	1778 x 660 mm (70" x 26")
V-40E-A300	552	3.5	Amalgam	320	230 50/60	40	181	400	1524	60	1778 x 762 mm (70" x 30")
V-48E-A300	630.8	4	Amalgam	320	230 50/60	48	204	450	1524	60	1778 x 762 mm (70" x 30")

¹Capacity at a UV dose of 30 mJ/cm² at end of lamp life, and UV transmittance of 65% (254 nm; 1-cm cell).

²Depending on configuration of modules, the above dimensions and channel length are subject to change.

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