UV SERIES ULTRAVIOLET SYSTEMS

- **High-intensity UV output for supplemental microbiological control in drinking or process water**
- **Positive alternative to environmentally harmful chemicals**
- **Available in three different sizes and two different voltages**

The UVS-110, UV-110, UV-120 and UVBB Ultraviolet Systems are effective at protecting potable drinking water sources from occasional intrusion of microbiological contamination. This positive alternative to environmentally harmful chemicals uses ultraviolet light to control microbes. A germicidal dose of ultraviolet light (16,000 microwatt-sec per square centimeter) at a wavelength of 254 nanometers, disrupts the microbes reproductive process.

All UV Series systems are constructed with a durable polypropylene housing; a quartz sleeve to protect the lamp and provide maximum UV transmittance; a UL-listed, voltage regulated control module, mounting bracket and hardware.

UV-120 and UVBB models are equipped with a stainless steel insert sleeve to provide increased durability and maximize microbe reduction.

UVS-110 and UV-110 systems are equipped with a CBU-10 carbon block cartridge to provide protection against Cryptosporidium and Giardia cysts and assuring maximum UV transmittance through the water by reducing turbidity.

UV Series ultraviolet systems are available in two sizes: 120 volt, 60 hertz; and 220/240 volt, 50 hertz. System flow rate range from 1-15 gpm (3.8 - 57 L/min).

PENTEK®
Pentair Water

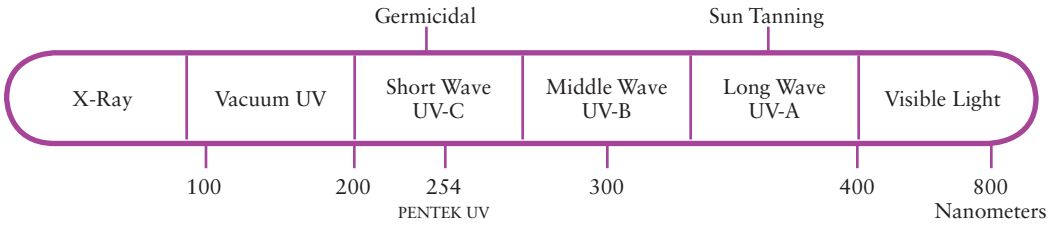
UV SERIES
Ultraviolet Systems

Minimum Dose:* 16 mJ/cm²
(16,000 microwatt-sec per cm²)

Models UVS-110-1, UVS-110-2, UV-110-1 and UV-110-2 incorporate a carbon block cartridge (CBU-10) that surrounds the quartz tube. This cartridge provides prefiltration that assures maximum transmittance of UV light through the water and reduction of cysts such as Cryptosporidium and Giardia.

NOTE: Carbon block prefilters or other fine filtration can be plumbed in separately to provide this function for models UV-120 and UVBB-120.

*Determined by:
LAMP INTENSITY (microwatts) X TIME OF EXPOSURE IN REACTOR CHAMBER (sec)
÷ SURFACE AREA OF REACTOR CHAMBER (cm²) = microwatt • sec/cm² = mJ/cm²/1000



System Specifications and Performance Data

Model	Dimensions	Voltage	Hertz	Recommended Flow Rates	Maximum Operating Pressure
UVS-110-2*†	5½" x 15½" (140 mm x 394 mm)	220	50	1 gpm (3.8 Lpm)	65 psi (4.5 bar)
UV-110-1*	5½" x 15½" (140 mm x 394 mm)	120	60	2 gpm (7.6 Lpm)	65 psi (4.5 bar)
UV-110-2*	5½" x 15½" (140 mm x 394 mm)	220	50	2 gpm (7.6 Lpm)	65 psi (4.5 bar)
UV-120-1	5½" x 25½" (140 mm x 648 mm)	120	60	8 gpm (30.3 Lpm)	65 psi (4.5 bar)
UV-120-2	5½" x 25½" (140 mm x 648 mm)	220	50	8 gpm (30.3 Lpm)	65 psi (4.5 bar)
UVBB-120-1	7" x 29" (178 mm x 737 mm)	120	60	15 gpm (56.8 Lpm)	65 psi (4.5 bar)
UVBB-120-2	7" x 29" (178 mm x 737 mm)	220	50	15 gpm (56.8 Lpm)	65 psi (4.5 bar)

* Supplied with a carbon block filter cartridge which reduces sediment, bad taste and odor, Cryptosporidium and Giardia cysts.
† For export sale only.

Materials of Construction

Housing	Polypropylene
Cap	Polypropylene
UV Sleeve	Quartz
O-Rings	Buna-N
Temperature Rating	40–100°F (4.4–37.8°C)
Reaction Chamber	Stainless Steel (20" models only)

WARNING: Do not use where the water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the system.

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PENTEK
Pentair Water

ISO-9001 REGISTERED MANUFACTURER

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