

PENTEK® UV SERIES ULTRAVIOLET SYSTEMS



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.

UVS-110 and UV-110 Systems are equipped with a CBU-10 carbon block cartridge to provide the 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 Lpm).

FEATURES/BENEFITS

High-intensity UV output

Positive alternative to environmentally harmful chemicals

Available in three different sizes and two different voltages

Produces a dose of UV light (16,000 microwatt-sec per square centimeter) at a wavelength of 254 nanometers

SPECIFICATIONS

Housing – Polypropylene

Cap – Polypropylene

UV Sleeve – Quartz

O-Rings – Buna-N®

Maximum Temperature –
40-100°F (4.4-37.8°C)

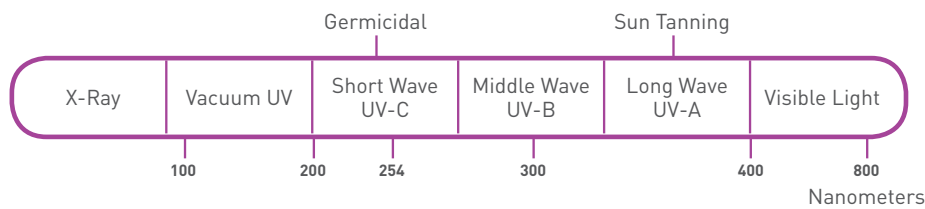
Reaction Chamber – Stainless steel
(20" models only)

SPECIFICATIONS AND PERFORMANCE

PART #	MODEL #	MAXIMUM DIMENSIONS	VOLTAGE	HERTZ	RECOMMENDED FLOW RATES	MAXIMUM OPERATING PRESSURE
163004	UVS-110-2*†	5-1/2" x 15-1/2" (140 mm x 394 mm)	220	50	1 gpm (3.8 Lpm)	65 psi (4.5 bar)
163005	UV-110-1*	5-1/2" x 15-1/2" (140 mm x 394 mm)	120	60	2 gpm (7.6 Lpm)	65 psi (4.5 bar)
163006	UV-110-2*	5-1/2" x 15-1/2" (140 mm x 394 mm)	220	50	2 gpm (7.6 Lpm)	65 psi (4.5 bar)
163007	UV-120-1	5-1/2" x 25-1/2" (140 mm x 648 mm)	120	60	8 gpm (30.3 Lpm)	65 psi (4.5 bar)
163008	UV-120-2	5-1/2" x 25-1/2" (140 mm x 648 mm)	220	50	8 gpm (30.3 Lpm)	65 psi (4.5 bar)
163009	UVBB-120-1	7" x 29" (178 mm x 737 mm)	120	60	15 gpm (56.8 Lpm)	65 psi (4.5 bar)
163101	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.

† For export sale only.



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.

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/cm²/1000a



FILTRATION & PROCESS

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