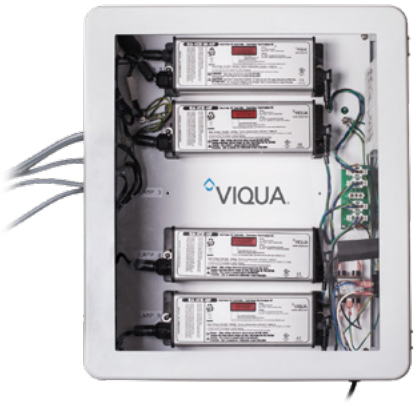
SHF-140, SHF-180, SHF-290, SHFM-140, SHFM-180, and SHFM-29

Ultraviolet Water Treatment Systems from VIQUA

The **VIQUA PROFESSIONAL family** of compact UV systems provides a reliable and economical way to treat drinking water in virtually any light commercial application.

The high-flow series extends the flow rate range that can be treated using VIQUA's proven and trusted technology. These systems are available with flow rates of up to 290 gpm (65 m^3/hr) for facilities with higher water demands.



Features of VIQUA UV water systems

- Capable of inactivating *cryptosporidium, giardia*, and *E. coli* in water flows up to 290 gpm (65 m^3/hr)*
- Specially designed and tested UV lamps that provide consistent, reliable ultraviolet output over the entire life of the lamp (9,000 hours) to ensure continuous treatment
- Superior quality 316 stainless-steel chamber
- Separate control panel with power isolation
- Visual display of lamp life remaining and audible/visual lamp change reminder
- Specialized 254nm UV intensity sensor with output to enable solenoid valve or remote alarm (available for SHFM models)

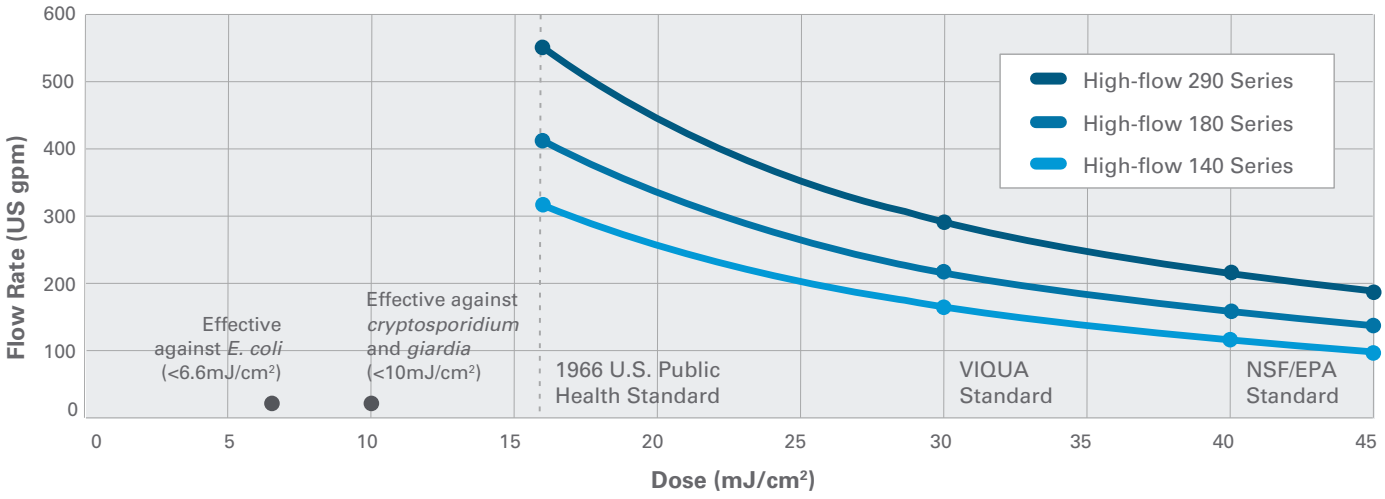
*Efficacy of VIQUA systems has been demonstrated in internal testing. Visit VIQUA.com for details.



Specifications

	SHF-140	SHF-180	SHF-290	SHFM-140	SHFM-180	SFHM-290
Model						
North America	SHF-140	SHF-180	SHF-290	SHFM-140	SHFM-180	SHFM-290
EU CEE 7/7	SHF-140/2	SHF-180/2	SHF-290/2	SHFM-140/2	SHFM-180/2	SHFM-290/2
AUS/NZ 3112	SHF-140/2A	SHF-180/2A	SHF-290/2A	SHFM-140/2A	SHFM-180/2A	SHFM-290/2A
UK BS 1363	SHF-140/2B	SHF-180/2B	SHF-290/2B	SHFM-140/2B	SHFM-180/2B	SHFM-290/2B
Flow rates (@ 95% UVT)						
US Public Health (16 mJ/cm²)	310 gpm (1170 lpm); 70 m³/hr	350 gpm (1300 lpm); 78 m³/hr	543 gpm (2055 lpm); 123 m³/hr	310 gpm (1300 lpm); 78 m³/hr	350 gpm (1300 lpm); 78 m³/hr	543 gpm (2055 lpm); 123 m³/hr
VIQUA Standard (30 mJ/cm²)	170 gpm (640 lpm); 38 m³/hr	210 gpm (790 lpm); 47 m³/hr	290 gpm (1098 lpm); 65 m³/hr	170 gpm (640 lpm); 38 m³/hr	210 gpm (790 lpm); 47 m³/hr	290 gpm (1098 lpm); 65 m³/hr
NSF/EPA (40 mJ/cm²)	125 gpm (470 lpm); 28 m³/hr	160 gpm (600 lpm); 36 m³/hr	215 gpm (813 lpm); 48 m³/hr	125 gpm (470 lpm); 28 m³/hr	160 gpm (600 lpm); 36 m³/hr	215 gpm (813 lpm); 48 m³/hr
Dimensions						
Chamber	34 in. × 6 in. × 14 in. (86.4 cm × 15.2 cm × 35.6 cm)	42.5 in. × 6 in. × 14 in. (107.3 cm × 15.2 cm × 35.6 cm)	42.5 in. × 8 in. × 17 in. (108 cm × 20.3 cm × 43.5 cm)	34 in. × 6 in. × 14 in. (86.4 cm × 15.2 cm × 35.6 cm)	42.5 in. × 6 in. × 14 in. (107.3 cm × 15.2 cm × 35.6 cm)	42.5 in. × 8 in. × 17 in. (108 cm × 20.3 cm × 43.5 cm)
Controller	17.5 in. × 19.5 in. × 8.2 in. (44.5 cm × 50 cm × 21 cm)					
Inlet and outlet port size	3-in. flange		4-in. flange	3-in. flange		4-in. flange
Shipping weight	96 lbs (43.5 kg)	99 lbs (45 kg)	286.5 lbs (129.7 kg)	96.5 lbs (43.7 kg)	99.5 lbs (45.1 kg)	287 lbs (130.1 kg)
Electrical						
Voltage	100-240V (50-60 Hz)					
Power consumption	350W	440W	550W	350W	440W	550W
Maximum operating pressure	125 psi (8.62 bar)					
Influent water temperature	2 to 40°C (36 to 104°F)					
Number of lamps	4		5	4		5
Features						
Visual “power on”	Y	Y	Y	Y	Y	Y
Chamber material	316L stainless steel	316L stainless steel	316L stainless steel	316L stainless steel	316L stainless steel	316L stainless steel
Visual lamp life remaining	Y	Y	Y	Y	Y	Y
Audible lamp failure	Y	Y	Y	Y	Y	Y
Audible lamp replacement reminder	Y	Y	Y	Y	Y	Y
UV sensor	N	N	N	Y	Y	Y
Sensor reading output (4-20 mA)	–	–	–	Optional with 260134	Optional with 260134	Optional with 260134
Solenoid valve output	–	–	–	Optional	Optional	Optional

High-Flow Dose Curves at 95% UVT and 20°C at End of Life



Replacement parts

S740RL-4C: UV lamp for SHF140 and SHFM-140	**QSO-950:** quartz sleeve for SHF-290 and SHFM-290
S950RL-4C: UV lamp for SHF-180, SHF-290, SHFM-180, and SHFM-290	**254NM-HF:** UV sensor for SHF-290 and SHFM-290
QS-012: quartz sleeve for SHF-140 and SHFM-140	**BA-ICE-HF:** controller for all units
QS-180: quartz sleeve for SHF-180 and SHFM-180	**BA-ICE-M-HF:** controller for SHFM-140, SHFM-180, and SHFM-290

Water quality parameters

Hardness: < 7 grains (120 mg/L)	**Iron:** < 0.3 mg/L	**Tannins:** < 0.1 mg/L

To learn more about the VIQUA PROFESSIONAL family and the efficacy of its UV treatment systems, visit VIQUA.com

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