VIQUA
simply safe water

SHF-140, SHF-180, SHF-290, SHFM-140, SHFM-180 & SHFM-290

Ultraviolet Water Disinfection Systems from VIQUA

The quality of drinking water can change with time and become contaminated with harmful bacteria. The **PROFESSIONAL family** of compact UV disinfection systems provide a **reliable, economical,** and **chemical-free** way to safeguard drinking water in any light commercial application. VIQUA's products have been designed and tested to ensure quality drinking water is at everyone's finger tips.

Regardless of your need, there is a VIQUA system to suit your requirements. **VIQUA's High-Flow series offers systems with flow rates of up to 290 GPM (65 m^3/hr) for facilities with higher water demands.**

VIQUA's line of High Flow UV water disinfection systems have been specifically designed to extend the flow rate range of drinking water that can be safeguarded using the proven and trusted technology already offered by the VIQUA family of products.

Features of VIQUA UV water disinfection systems

- Equipped to inactivate harmful microorganisms in water flows up to 290 GPM (65 m^3/hr).
- Specially designed and tested Sterilume-HO lamps provide consistent and reliable UV output over the entire life of the lamp (9000 hours) to ensure continuous purification.
- Superior quality 316 stainless steel chamber.
- Separate control panel with power isolation.
- Visual display of lamp life remaining and audible/visual lamp change reminder.
- Specialised 254nm UV intensity sensor available (SHFM models) with output to enable solenoid valve or remote alarm.

Replacement Parts

		SHF-140	SHF-180	SHF-290	SHFM-140	SHFM-180	SHFM-290
S740RL-4C	UV Lamp	✓	–	–	✓	–	–
S950RL-4C	UV Lamp	–	✓	✓	–	✓	✓
QS-012	Quartz Sleeve	✓	–	–	✓	–	–
QS-180	Quartz Sleeve	–	✓	–	–	✓	–
QSO-950	Quartz Sleeve	–	–	✓	–	–	✓
254NM-HF	UV Sensor	–	–	✓	–	–	✓
BA-ICE-HF	Controller	✓	✓	✓	✓	✓	✓
BA-ICE-M-HF	Controller	–	–	–	✓	✓	✓

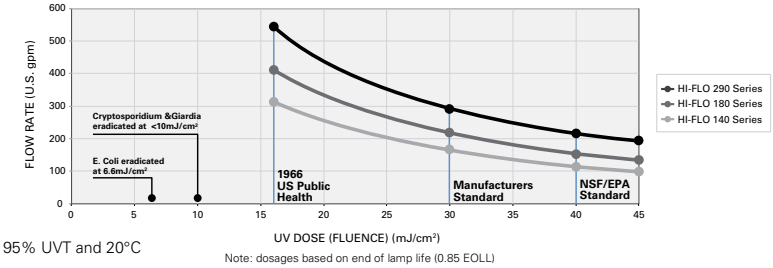
Specifications

MODEL						
N. 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/cm^2)	310 GPM (1170 lpm) (70 m^3/hr)	350 GPM (1300 lpm) (78 m^3/hr)	543 GPM (2055 lpm) (123 m^3/hr)	310 GPM (1300 lpm) (78 m^3/hr)	350 GPM (1300 lpm) (78 m^3/hr)	543 GPM (2055 lpm) (123 m^3/hr)
VIQUA Standard (30 mJ/cm^2)	170 GPM (640 lpm) (38 m^3/hr)	210 GPM (790 lpm) (47 m^3/hr)	290 GPM (1098 lpm) (65 m^3/hr)	170 GPM (640 lpm) (38 m^3/hr)	210 GPM (790 lpm) (47 m^3/hr)	290 GPM (1098 lpm) (65 m^3/hr)
NSF/EPA (40 mJ/cm^2)	125 GPM (470 lpm) (28 m^3/hr)	160 GPM (600 lpm) (36 m^3/hr)	215 GPM (813 lpm) (48 m^3/hr)	125 GPM (470 lpm) (28 m^3/hr)	160 GPM (600 lpm) (36 m^3/hr)	215 GPM (813 lpm) (48 m^3/hr)
DIMENSIONS						
Chamber	34" x 6" x 14" (86.4 cm x 15.2 cm x 35.6 cm)	42.5" x 6" x 14" (107.3 cm x 15.2 cm x 35.6 cm)	42.5" x 8" x 17" (108 cm x 20.3 cm x 43.5 cm)	34" x 6" x 14" (86.4 cm x 15.2 cm x 35.6 cm)	42.5" x 6" x 14" (107.3 cm x 15.2 cm x 35.6 cm)	42.5" x 8" x 17" (108 cm x 20.3 cm x 43.5 cm)
Controller	17.5" x 19.5" x 8.2" (44.5 cm x 50 cm x 21 cm)	17.5" x 19.5" x 8.2" (44.5 cm x 50 cm x 21 cm)	17.5" x 19.5" x 8.2" (44.5 cm x 50 cm x 21 cm)	17.5" x 19.5" x 8.2" (44.5 cm x 50 cm x 21 cm)	17.5" x 19.5" x 8.2" (44.5 cm x 50 cm x 21 cm)	17.5" x 19.5" x 8.2" (44.5 cm x 50 cm x 21 cm)
Inlet/Outlet Port Size	3" FLANGE	3" FLANGE	4" FLANGE	3" FLANGE	3" FLANGE	4" 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	100-240V / 50-60 Hz	100-240V / 50-60 Hz	100-240V / 50-60 Hz	100-240V / 50-60 Hz	100-240V / 50-60 Hz
Power Consumption	350 W	440 W	550 W	350 W	440 W	550 W
Maximum Operating Pressure	125 psi (8.62 bar)	125 psi (8.62 bar)	125 psi (8.62 bar)	125 psi (8.62 bar)	125 psi (8.62 bar)	125 psi (8.62 bar)
Influent Water Temperature	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)
Number of Lamps	4	4	5	4	4	5
FEATURES						
Visual "Power On"	YES	YES	YES	YES	YES	YES
Chamber Material	316L SS	316L SS	316L SS	316L SS	316L SS	316L SS
Visual Lamp Life Remaining	YES	YES	YES	YES	YES	YES
Audible Lamp Failure	YES	YES	YES	YES	YES	YES
Audible Lamp Replacement Reminder	YES	YES	YES	YES	YES	YES
UV Sensor	NO	NO	NO	YES	YES	YES
Sensor Reading Output (4-20mA)	--	--	--	Optional with 260134	Optional with 260134	Optional with 260134
Solenoid Valve Output	--	--	--	Optional	Optional	Optional

Water Quality Parameters

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

HI-FLO DOSE CHART*



*@ 95% UVT and 20°C

Note: dosages based on end of lamp life (0.85 EOLL)

VIQUA simply safe water

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