

New

cactus

ULTRAVIOLET WATER
PURIFICATION SYSTEMS

New Cactus™ UV Purification Systems

With **CROSS**X**FIRE**™ TECHNOLOGY

For Residential And Light Commercial Applications

We've kept patented Crossfire Technology's core features like EASY LAMP CHANGES, VISUAL QUARTZ INSPECTION and UV dose of 40mJ/cm², the same as NSF/ANSI 55 Class A protocols, but SIMPLIFIED it, AND priced it competitively with ordinary UV systems.

Now, world-leading UV Pure technology comes home...with simple, robust CACTUS models priced for residential and light commercial use!

Two **cactus** Models:

X-8 FOR **8 GPM FLOW**,
AND X-12 FOR **12 GPM FLOW**



The most effective water purification

- Engineered to reduce e-coli, bacteria, cysts like cryptosporidium and giardia, legionella and most viruses to safe levels
- "Lamp On" indicator that lamps are energized
- Laboratory validated for a minimum UV dose of 40 mJ/cm² at 85% UVT*, at the end of lamp life and at specified flow rate
- Air cooled lamps and standard Anti-Fouling System means wider effective temperature range and minimized quartz fouling
- Elliptical reflectors eliminate UV shadowing and significantly increase effectiveness

Quick and easy lamp changes – once per year

- Front-loading carriage means lamp changes are simple and take just a minute
- No need to drain, disassemble or remove the system from its mounting to change lamps

Visual quartz inspection is easy and takes seconds

- Fold down the front carriage and the entire quartz water chamber is visible
- No draining or disassembly to check quartz fouling
- Clean in place procedure means no draining, disassembly, or mess if the quartz ever needs cleaning

Robust, proven ballast for long life and care free performance

- Proven successful in an eight-year field history of demanding municipal, industrial and commercial applications

Easy installation

- User friendly – everything needed is in the box
- 1" male NPT 316 stainless steel connections
- Mounts vertically; wall mounting template included
- Lightweight, with a small footprint and compact size
- No extra space required for lamp removal or service
- Optional 1" 304 Stainless Steel flexible hoses available

*UVT (Ultraviolet Transmittance is a measure of the percentage of UV light that may pass through the water
UV Pure recommends the use of filtration and/or water conditioning systems to treat non-microbiological contaminants.

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UV
PURE

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Model	X-8 for 8 GPM flow	X-12 for 12 GPM flow
Validation	Laboratory Validated by GAP EnviroMicrobial Services Ltd. using the same testing standards as EPA protocols	
Crossfire Technology®	Elliptical reflectors, twin lamps in air, and visible quartz chamber for 360° radiation and most effective dose	
Minimum 40 mJ/ cm² dose at a Maximum Flow Rate of	8.7 US GPM (33 L/min, 1.98 m3/hr)	13.3 US GPM (50.4 L/min, 3.0 m3/hr)
Minimum Water UV Transmittance	85%	85%
Operating Pressure	100 psig (689 kPa)	
Anti-Fouling System is Standard	Engineered to minimize effects of minerals coming out of solution and to eliminate a drop in UV dose in high water temperature that is common in conventional UV systems, without Crossfire Technology®, in low or no-flow conditions	
Inlet and Outlet Connections	1" male NPT 316L stainless steel manifold connections	
Voltage	115 Volts AC, 50/60 Hertz (North American Models); 240 Volts AC, 50/60 Hertz (International models)	
Maximum Power Consumption	93 Watts	114 Watts
AB 1953 Certified	Both models are Certified to AB 1953 by NSF	
Lamps	Low Pressure, High Output proprietary lamps contain up to 35 mg of Mercury (Hg); rated for 9000 hours continuous use (Approximately one year)	
“Lamp On” Indicator	Standard on all models; indicates that lamps are energized	
Electronic Ballast	High Efficiency ballast engineered to ensure long lamp life and robust operation	
Dimensions (HxWxD)	27.3"x7.5"x7.8" 694x190x198mm	32"x7.5"x7.8" 813x190x198mm
Weight Dry	15.5 lbs (7.0 kg)	17 lbs (7.7 kg)
Weight Wet	17.4 lbs (7.9 kg)	19.2 lbs (8.7 kg)
Warranty	One year limited warranty on lamps; three year limited warranty on electrical components and quartz Sleeve; Five year limited warranty for structural, hardware and mechanical components. See complete warranty.	
Patents	Patented in US 6,707,049. Australia 2002333084. Mexico 248805. Patents pending in Canada, Europe, Eurasia and UK.	

Cactus Models: Pre-Treatment and Environmental Operating Conditions

	Water Conditions	Effective Treatment Range	
		MIN	MAX
	Hardness	0	7 grains (120 mg/L)
	Iron	0	0.3 mg/L (ppm)
	Manganese	0	0.05 mg/L (ppm)
	% UVT	85%	100%
	pH	6.5	9.00
	Water Temperature	1° C (34° F)	35° C (95° F)
	Air Temperature	1° C (34° F)	35° C (95° F)
	Turbidity	0 NTU	1 NTU
	Water Pressure (Operating)	0 psig (0 kPa)	100 psig (689 kPa)
	Water Pressure (Test)	—	240 psig (1654 kPa)
	Filtration if not municipal source	5 micron pre-filtration recommended	

UV Pure Technologies' product specifications are subject to change without notice.