UPSTREAM®

Ultraviolet Water Purification Systems

UV Pure Technologies' Upstream® systems, with patented Crossfire Technology® are engineered to meet the same standards as NSF/ANSI 55 Class A systems, but are priced competitively with ordinary UV systems. Six models, for flow rates of 10, 15 and 30 GPM can treat water with UVT as low as 50%.





The Most Effective Water Purification

- Engineered to reduce e-coli, bacteria, cysts like cryptosporidium and giardia, legionella and most viruses to safe levels.
- Effective for the broadest range of pre-treatment water quality
- Elliptical reflectors eliminate UV shadowing
- Lamp output optimized from 1° C (34° F) to 40° C (104° F) air and water temperatures

Crossfire Technology is Self-cleaning

• Automatic self-cleaning mechanism is engineered to eliminate quartz fouling, manual cleaning, quartz removal and risk of breakage

Quick and Easy Lamp Changes Annually

- No need to disassemble or drain systems to change lamps
- 9000 hour lamp life with lamp hour count down to end of life

Patented Smart Technology Engineered to Be Fail Safe and Risk-Free

- Dual UV sensors continuously monitor UV dose, lamp intensity, and net UV Transmittance (UVT)*
- Digital monitor, visual, and audible alarm notification
- On-board data logging and self-diagnostic trouble-shooting logic
- Optional automatic solenoid shut-off valve
- Optional wireless remote monitor

Engineered to be Virtually Maintenance Free

- Automatic Self-cleaning
- Simple and easy lamp changes
- Engineered to eliminate nuisance alarms
- Standard power conditioner protects gainst surges and brown-outs

Quick and Easy to Install

- 24 hour automatic initializing programming manages first time use so no installer wait time
- Small footprint and compact size
- No wasted space required for lamp removal
- Standard SS flexible hoses mean no hard piping required
- Optional automatic solenoid shut-off valve means by-pass piping is optional
- Wall mounting template included

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 * Ultraviolet Transmittance (UVT) is a measure of the percentage of UV light that may pass through the water.

UV Pure recommends the use of filtration or media systems to treat chemical or other non-microbiological contaminants. © UV Pure Technologies Inc. Dec. 2008

Upstream [®] System Specifications with Crossfire Technology [®]							
Model	Upstream 10-75	Upstream 10-50	Upstream 15-75	Upstream 15-50	Upstream 30-75 1"	Upstream 30-75 1.5"	
Validation	Engineered to meet the same standards as NSF/ANSI 55 Class A certified UV systems						
UV Dose	Minimum dose of 40 mJ/cm ² at specified flow rates						
Minimum Water UV Transmittance	75%	50%	75%	50%	75%	75%	
Maximum Rated Capacity	11 US gpm (41 L/min) (2.4 m³/hr) 16.5 US gpm (62 L/min) (3.3 m³/hr) 14.6 US gpm (55 L/min) (3.3 m³/hr) 28.5 US		28.5 US gpm (108 L/min)	3.5 US gpm (108 L/min) (6.5 m³/hr)			
Nominal Flow Rate	10 US gpm (38 L/min) (2.3 m³/hr)		15 US gpm (57 L/min) (3.4 m³/hr)	13.2 US gpm (50 L/min) (3.0 m³/hr)	26.4 US gpm (100 L/min) (6.0 m³/hr)		
Multiple System Flow Capacity - Engineered for multiple systems in parallel configuration up to	200 US gpm (46 m³/hr)		300 US gpm (68 m³/hr)	264 US gpm (60.0 m³/hr)	528 US gpm (120 m³/hr)		
Redundancy	Additional back-up systems can be added to meet regulatory requirements cost effectively						
Operating Pressure	10 psig (69kPa) to 100 psig (690 kPa); tested to 240 psig (1.6 MPa)						
Dynamic Flow Restrictor	Installed as standard						
Pressure Drop at 75% of Rated Capacity	14 psig (96 kPa) 4 psig (28.3 kPa)					4 psig (28.3 kPa)	
Solenoid Valve	1" NPT female to female, external 24 volts AC, auto shut-off, fail-safe (normally closed) valve optional on all models; solenoid valve requires a ninimum of 10 psig to operate; valves are one-way directional and include a manual override						
Inlet and Outlet Connections	1" NPT male manifold connections; flexible 1" NPT female to female 12" hoses eliminate the need for hard pipe installations 1-1/2" NPT					1-1/2" NPT	
Voltage	115 volts AC (North American models); 100 to 240 volts (international models) 50/60 Hz						
Maximum Power Consumption	135 watts	175 watts 200 watts					
Electrical Certification	North American models: Intertek ETL (UL and CSA equivalent); International models: meet IEC 60335.1 Ed4 and CE						
Power Line Conditioner	Panamax M4-EX included as standard. Power conditioner meets UL 1449						
Lamps	Low pressure high output proprietary lamps contain up to 35 mg of Mercury (Hg); rated for 9,000 continuous use (approximately one full year)						
Maintenance	Automatic reminder for lamps replacement; Lamps are mounted in air and easily removable, a simple 2 minutes process						
Electronic Ballast	Auto power-regulated smart ballast is integrated with micro-processor control system						
Self-Cleaning	316 SS wiper blade system engineered to keep quartz sleeve free of scale or bio-film						
On-Board Micro-Processor and Monitor	Patented dual smart UV sensors monitor lamp intensity output (UVI) and water transmittance (UVT) continuously; three thermistors continuously monitor UV chamber, ballast and water temperature; on-board LCD displays system performance, lamp hours, data logged operating events, and self-diagnosis including when to change lamps, and troubleshooting assistance for service issues; on-board LED's indicate system status: OK, warning or alarm conditions.						
Dry Contacts	Included as standard for applications that require remote alarm or auto dialers						
Optional Wireless Remote Monitor	RF 2.4 GHz remote monitor with LCD displays system status; operates up to 150 feet (50 meters) away from main system						
Dimensions (Height, Width, Depth)	32" x 7.5" x 9.3" (81.3 cm x 19.0 cm x 23.6 cm)	35.8" x 7.5" x 9.3" (90.8 cm x 19.0 cm x 23.6 cm) 39.8" x 7.5" x 9.3" (101.0 cm x 19.0 cm x 23.6 cm)		.6 cm)			
Weight - Dry	26 lbs (11.8 kg)	28 lbs (12.7 kg)		30 lbs (13.6 kg)			
Weight - Wet	29 lbs (13.2 kg)	31 lbs (14.1 kg) 33 lbs (15.0 kg)					
Warranty	1 year limited warranty on lamps and UV sensor array on pro-rated basis; three-year limited warranty for electrical components and quartz sleeve; five-year limited warranty for structural, hardware and mechanical components						
EPA FIFRA Certified	EPA Est. No. 075213-CAN-001						
Patents	Patented in US 6,707,048, Australia 2002333084, Mexico 248805. Patents pending in Canada, Europe, Eurasia, Japan, and UK						
Recommended Application or Water Source	Drilled deep wells or pre- treated water	Unprotected water sources; surface water (lakes, streams), cisterns, dug well	Drilled deep wells or pre-treated water	Unprotected water sources; surface water (lakes, streams), cisterns, dug well	Drilled deep wells or pre-t	reated water	

Upstream[®] Pre-Treatment and Environmental Operating Conditions

	Water Conditions	Effective Treatment Range		
The set		MIN	МАХ	
1000 In	Hardness	0	50 grains (855 mg/L)	
A Section and and	Iron	0	3 mg/L (ppm)	
A DAD AD A	Manganese	0	0.5 mg/L (ppm)	
and the second se	% UVT	50% or 75% depending on model	100%	
	рН	6.00	9.00	
and the second se	Total Dissolved Solids (TDS)	0	1000mg/L	
	Water Temperature	1°C (34°F)	40°C (104°F)	
	Air Temperature	1°C (34°F)	40°C (104°F)	
and a second	Turbidity	0 NTU	1 NTU	
1 2 2 2	Water Pressure (Operating)	10 psi (69 kPa)	100 psi (690 kPa)	
A DAY DAY	Water Pressure (Test)		240 psi (1.6 MPa)	
/	Filtration	5 micron pre-filtration recommended		

† Extreme air and water conditions may require thermal abatement kits

UV PURE TECHNOLOGIES INC.

T. 416.208.9884 TF. 1.888.407.9997 F. 416.208.5808 E. info@uvpure.com 60 Venture Drive, Unit 6, Toronto, Canada M1B 3S4 UVP part no: 750016 CN: LITUVP8 ID: 70020227537