

High performance, cost-effective system for stringent Industrial applications









\*Images are for reference purposes

# Redefining Flexibility, Reliability and Robustness for Industrial Applications.

The OptiVenn Series is a family of robust and flexible UV Systems with advanced technology designed to meet the stringent requirements of Pharmaceutical, Food & Beverage, Microelectronics and other Industrial Markets.

The OptiVenn breaks down the following microorganisms: E.coli and fecal coliform as well as trace chemicals; ozone, chlorine, total organic carbon.

The treatment chamber is constructed of 316L SS with two finish options. The control panel is constructed of 304 SS and is equipped with a Universal Controller which provides control, monitoring and operational information in a single convenient location.

The treatment chamber and control panel are extremely compact, yet offer flexibility of installation to accommodate into different skid designs or as a stand-alone UV System.

**MARKETS:** Aquaculture, Recreational Water, Oil & Gas, Power Generation, and General Industrial Applications

**APPLICATIONS:** Treatment, Ozone Reduction, Chlorine Reduction and TOC Reduction

## Introducing Aquafine OptiVenn

## **Compact Footprint.**

Optimized chamber design and multiple lamp arrays enable cost-effective installation in extremely compact spaces.

## Proven, Robust Components.

UV sensors, lamps, drivers and panels have demonstrated reliability worldwide in thousands of installations.

#### Flexible Panel Installation.

All stainless steel control panels provide maximum installation flexibility and are able to be mounted in different locations such as on the chamber or remotely to adapt to stringent space requirements.

## **Compact Chamber Design.**

The configurable treatment chamber makes it easy to fit the UV System into small spaces and tight pipe networks. The cylinder can be rotated to allow inlet and outlet connections at 4 different angles.

## User-friendly Human Machine Interface (HMI).

Intuitive interface enables at-a-glance system status checks.

## Improved Lamp Technology.

Low-pressure high-output lamp (LPHO) technology provides increased process performance and extended lamp life.

## **Delivering Water Confidence and Comprehensive Warranty.**

Aquafine UV Systems include a Lifetime Performance Guarantee and industry-leading warrantees for systems and parts.

## **Global Support. Local Service.**

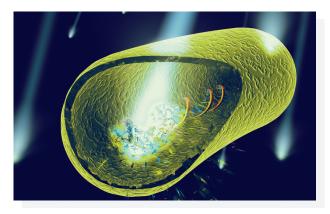
A comprehensive network of certified service providers offer fast response for spare parts and service.

## **Ultraviolet (UV) Technology**

Ultraviolet (UV) light is a versatile, reliable approach to address numerous requirements in industrial water applications.

### **UV for Broad-based Treatment**

- The Aquafine OptiVenn UV Water System treats the following: Escherichia coli (*E. coli*) and fecal coliform
- The Aquafine OptiVenn UV Water System breaks down trace chemicals; ozone, chlorine, total organic compound
- The OptiVenn system model 01CDS, 02CDS, 03CDS, 02CDM, 04CDM, 04CDL, 02DDM, 04DDM, 04DDL, 06DDL, 08DDL, 08EDL, 08FDL, 08GDL, 10GDL, 12GDL and 12HDL treats the following: Escherichia coli (E. coli) and fecal coliform
- The OptiVenn system model 04CTM, 06CTM, 08DTM, 12DTM, 08DTL, 10DTL and 12DTL break down trace chemicals; ozone, chlorine, total organic carbon.



UV light attacks the microorganisms genetic material (DNA) preventing replication and infection.

## **UV for TOC Reduction**

- 185 nm UV at a minimum dose of 90 mJ/cm<sup>2\*</sup> creates powerful hydroxyl radicals that oxidize total organic carbon (TOC) molecules
- UV can be used together with Deionization (DI) and Reverse Osmosis (RO) to reduce TOC to levels below 1.0 ppb

## **UV for Ozone Reduction**

- Residual ozone (0,) is efficiently removed by UV at a wavelength of 254 nm
- Ozone absorbs the UV energy and quickly breaks down to dissolved oxygen (02)
- Typically 1.0 ppm of ozone can be reduced to less than 0.1 ppm with a UV dosage of 90 mJ/cm<sup>2</sup>

## **UV for Chlorine Reduction**

- · Free chlorine residuals up to 2.0 ppm can be successfully reduced by the application of UV light
- · Reduces carcinogenic by-products
- Lower maintenance costs compared to carbon beds or chemical injections

## **Aquatine Performance Guarantee and Support**

As an added incentive to keep your Aquafine equipment operating at its optimum level, Aquafine provides a Lifetime Performance Guarantee for the equipment. A Lifetime Performance Guarantee means that the UV system will achieve the targets for which it was designed and sized on the original sales order of the equipment, which considers operational parameters such as UVT of the fluid, maximum flow rate, operating pressure, fluid temperature, among others.

A Lifetime Performance Warranty will only be applicable with the use of genuine OEM replacement parts. This guarantee is valid for the life of the equipment and it is available for both new and existing equipment when applicable conditions are met.

Customer support is available from our Authorized Distributor Network and from our 24/7 Technical Service Group. For questions regarding your application needs, please contact your local Authorized Distributor or Aquafine for more information.





# Flexible Chamber Requires Less Space

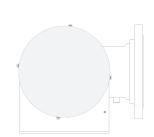
## Benefits:

- An internal baffle and an anti-vibration mechanism optimize performance, support quartz sleeves and ensure reliable system performance even at high flow rates.
- The UV System can be installed with the chamber easily rotated to one of 4 different angles (12, 3, 6 and 9 o'clock position). No special customization is required.
- The flexible chamber, enabling rotation, reduces pipework, elbows, space and installation costs
- · Inlet and outlet connections are always at the same angle

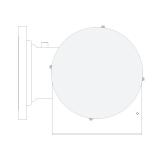


Chamber with panel mounted on the front and connections rotated to the back









# Universal Control Panel Provides Installation Flexibility

## Benefits:

- All UV Systems have a stainless steel control panel designed to provide maximum installation flexibility and fit within stringent space requirements.
- All control panels are compliant with the following electrical codes: cULus (Canada, USA), CE (Europe)

	Standard Co	ontrol Panel	Optional Control Panel				
Systems with 4 lamps or less Shape	Stainless Steel UL Type 1 (IP51) Includes Fan Flat Top Mount on chamber or remotely*	SMALL	Stainless Steel UL Type 4X (IP55) with fan/shroud Includes Fan Sloped Top Mount on chamber or remotely	SMALL			
Systems with 6 to 8 lamps Shape	Stainless Steel UL Type 1 (IP51) Includes fan Flat Top Mount on chamber or remotely**	MEDIUM	Stainless Steel UL Type 12 (IP54) with fan UL Type 4X (IP55) with fan / shroud UL Type 4X (IP66) with AC Sloped Top Remote mount only	LARGE UL Type 4X shown			
Systems with 10 to 12 lamps Shape	Stainless Steel UL Type 12 (IP54) with fan Sloped Top Remote mount only	LARGE	Stainless Steel UL Type 4X (IP55) with fan / shroud UL Type 4X (IP66) with AC Sloped Top Remote mount only	LARGE UL Type 4X shown			

<sup>\*</sup>No mounting option for 01CDS and 03CDS

<sup>\*\*</sup>Mounting options vary by model and configuration

# Compact System Design to Preserve Space

#### Benefits:

- The panel can be mounted in different locations to optimize the use of space, especially for frame mounted designs.
- The small and medium control panels can be mounted on top of the cylinder (between the inlet and outlet connection), in front of the cylinder or remotely up to 18 feet apart from the cylinder. The location of the panel can be easily changed at any point in time. It is recommended that the large panel be mounted remotely (not on the cylinder).
- · Mounting is possible based on configuration and orientation of inlet and outlet.\*





## User-Friendly HMI

### Benefits:

- Intuitive interface enables at-a-glance check status of the system.
- Information displayed includes: individual lamp status, operational hours of the system and lamps, UV intensity and temperature condition of the chamber and control panel.
- A 4-20mA output signal is included with the UV monitoring option.
- Base model includes HOA (Remote Start and Stop) and LOA (Lamp Out Alert)



# High Performance UV Lamps

## Benefits:

- The LPHO lamps are approximately 3 times more efficient than medium pressure lamps, delivering most of the UV output in the germicidal absorbance curve peak. Low pressure lamps operate at a lower temperature than medium pressure lamps, which leads to less fouling and less maintenance requirements.
- The OptiVenn series lamps can restart immediately after a shut down (no cool down period required) which maximizes system uptime.



# $\mathsf{OptiVenn^{TM}}\:\mathsf{Series}$

Model:	01CDS	02CDS	03CDS	02CDM		03CDM*	04CDM	04DDM	04CDL		06DDL	08DDL				12HDL									
	01000	02000	00000	02051-1	02DDM					04DDL			08EDL	08FDL	10GDL										
Maximum Flow Rate Flow rate (gpm)*								10	2 200																
Flow rate (m3/hr)*								12 gpm - 2 2.7 m³/hr -																	
Number of UV lamps	1	2	3	2	2	3	4	4	4	4	6	8	8	8	10	12									
Electrical Requirements	·		, and the second	_	_			-	-					, and the second		12									
•							110-240	V, 50/60Hz,	I-LorI-N	3/M+CND															
Electrical supply Operating power (W)	63	145	165	155	155	297	297	297	583	583	1,153	1,438	1,438	1,438	1,723	2,008									
Chamber (W)	03	145	103	155	133	2//	277	277	303	303	1,155	1,450	1,430	1,430	1,725	2,000									
Material of Construction								21/I Ctair	ologo Ctool																
Lamp Length - in (cm)	316L Stainless Steel 15 (38) 30 (76) 60 (152)																								
Chamber diameter - in (cm)			15)		8 (20)		15)	8 (20)	6 (15)		60 (152) 8 (20) 10 (25) 12 (30)			14 (36)	16 (41)										
Ansi flanges size - in (cm)									- ( /					(,											
Optional - Tri-clamp size - in (cm)		2 (5)		31	(8)		4 (	10)			6 (15) 8 (20)		8 (20)		10 (25)										
Primary: Inlet/Outlet Flange Sizes	ANSI 2" 3A Sanitary 2"	ANSI 2" 3A Sanitary 2"	ANSI 2" 3A Sanitary 2"	ANSI 3" 3A Sanitary 3"	ANSI 3" 3A Sanitary 3"	ANSI 2" 3A Sanitary 2"	ANSI 4" 3A Sanitary 4"	ANSI 4" 3A Sanitary 4"	ANSI 4" 3A Sanitary 4"	ANSI 6" 3A Sanitary 6"	ANSI 6" 3A Sanitary 6"	ANSI 6" 3A Sanitary 6"	ANSI 8" 3A Sanitary 8"	ANSI 8" 3A Sanitary 8"	ANSI 8" 3A Sanitary 8"	ANSI 10" 3A Sanitary 10"									
Primary: Center to Center Distance (Inches)	9"	9"	9"	22"	22"	25"	22"	22"	50"	45"	45"	45"	45"	41.5"	39"	37"									
Secondary: Inlet/Outlet Flange Sizes (Inches)	-	-	-	ANSI 2" 3A Sanitary 2"	ANSI 3" 3A Sanitary 3"	-	ANSI 3" 3A Sanitary 3"	-	-	-	-	-	-	-	-	-									
Secondary: Center to Center Distance (Inches)	-	-	-	22"	24"	-	22"	-	-	-	-	-	-	-	-	-									
Monitoring and Controls																Base Package:  Lamp status indicator, System hours of operation, Lamp out alert (LOA) and Remote start/stop (HOA)									
Standard Controls				Lamp	status ind	icator, Syste	em hours of			lert (LOA) a	ınd Remote	start/stop	(HOA)												
Standard				Lamp	status ind		-	operation, JV Monitori	Lamp out a	e:		start/stop	(HOA)												
Standard Optional				Lamp	status ind		-	operation,	Lamp out a	e:		start/stop	(НОА)												
Standard Optional Control Panel				Lamp	status ind		-	operation, JV Monitori	Lamp out a	e:		start/stop	(ноа)												
Standard Optional				Lamp	status ind		-	operation, JV Monitori	Lamp out a	e:		start/stop	(HOA)												
Standard Optional Control Panel				Lamp	status ind		-	operation, JV Monitori	Lamp out a ing Package th NIST cer	e:		start/stop	(HOA)												
Standard Optional Control Panel Standard				Lamp	status ind		UV intensity	operation, JV Monitori reading wi	Lamp out a ing Package th NIST cer	e:		start/stop	(HOA)			12 (IP54) Fan									
Standard Optional Control Panel Standard Material of Construction				Lamp			UV intensity	operation, JV Monitori reading wi	Lamp out a ing Package th NIST cer	e:			(HOA)			Fan 23×9									
Standard Optional  Control Panel Standard Material of Construction Rating				Lamp		l	UL Type	operation, JV Monitori reading wi	Lamp out a ing Package th NIST cer	e:					with	Fan 23×9 9×23)									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H×W×D) in (cm)				Lamp	16×16×7 (	l	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51)	Lamp out a ing Package th NIST cer	e:			(41×51×23)	an	22×2 (56×5	Fan 23×9 9×23)									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H×W×D) in (cm)  Shape				Lamp	16×16×7 (	(41×41×18)	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51)	Lamp out a ing Package th NIST cer	e:			(41×51×23)		22×2 (56×5	Fan 23×9 9×23)									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H×W×D) in (cm)  Shape  Cooling Mechanism				Lamp	16×16×7 (	(41×41×18)	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51)	Lamp out a ing Package th NIST cer	e:			(41×51×23) Fa		22×2 (56×5	Fan 23×9 9×23)									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H×W×D) in (cm)  Shape  Cooling Mechanism  Operating Temp °F (°C)				Lamp	16×16×7 ( F 34°-104	(41×41×18)	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51)	Lamp out a ing Package th NIST cer	e:	UII UL Typ	16×20×9 ( L Type 12 (I	(41×51×23) Fa	(1°-40°) an Shroud	with 22×2 (56×5 Slope	Fan 23×9 9×23) d Top  4X (IP56) /Shroud 4X (IP66)									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H×W×D) in (cm)  Shape  Cooling Mechanism  Operating Temp °F (°C)  Optional				Lamp	16×16×7 (F 34°-104)	(41×41×18) an ° (1°-40°)	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51)	Lamp out a ing Package th NIST cer	e:	UII UL Typ	16×20×9 ( L Type 12 (I pe 4X (IP56 L Type 4X ( 22×23×9 (	Fa 34°-104°  P54) with Fan/5) with Fan/5	an Shroud	UL Type with Fan UL Type with Fan UL Type (54-52-62-62-62-62-62-62-62-62-62-62-62-62-62	Fan 23×9 9×23) d Top  4X (IP56) /Shroud 4X (IP66)									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H×W×D) in (cm)  Shape  Cooling Mechanism  Operating Temp °F (°C)  Optional  Rating				Lamp	16×16×7 (F 34°-104)	(41×41×18) an o (1°-40°) 4X (IP55)	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51)	Lamp out a ing Package th NIST cer	e:	UII UL Typ	16×20×9 ( L Type 12 (I pe 4X (IP56 L Type 4X ( 22×23×9 (	(41×51×23) F: 34°-104° (P54) with F () with Fan/5 (P66) with A	an Shroud	UL Type with Fan UL Type with Fan UL Type (54-52-62-62-62-62-62-62-62-62-62-62-62-62-62	Fan 23×9 9×23) d Top  4X (IP56) /Shroud 4X (IP66) n AC 6×23) :23×9									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H×W×D) in (cm)  Shape  Cooling Mechanism  Operating Temp °F (°C)  Optional  Rating  Size (H×W×D) in (cm) **				Lamp	16×16×7 (F 34°-104)	(41×41×18) an o (1°-40°) 4X (IP55)	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51)	Lamp out a	e:	UII UL Typ	16×20×9 ( L Type 12 (I pe 4X (IP56 L Type 4X ( 22×23×9 (	(41×51×23) F: 34°-104° (P54) with F () with Fan/5 (P66) with A	an Shroud	UL Type with Fan UL Type with Fan UL Type (54-52-62-62-62-62-62-62-62-62-62-62-62-62-62	Fan 23×9 9×23) d Top  4X (IP56) /Shroud 4X (IP66) n AC 6×23) :23×9									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H×W×D) in (cm)  Shape  Cooling Mechanism  Operating Temp °F (°C)  Optional  Rating  Size (H×W×D) in (cm) **  Shape				Lamp	16×16×7 (F 34°-104)	(41×41×18) an o (1°-40°) 4X (IP55)	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51)	Lamp out a	e:	UII UL Typ	16×20×9 ( L Type 12 (I pe 4X (IP56 L Type 4X ( 22×23×9 (	(41×51×23) F: 34°-104° (P54) with F () with Fan/5 (P66) with A	an Shroud	UL Type with Fan UL Type with Fan UL Type (54-52-62-62-62-62-62-62-62-62-62-62-62-62-62	Fan 23×9 9×23) d Top  4X (IP56) /Shroud 4X (IP66) n AC 6×23) :23×9									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H*W*D) in (cm)  Shape  Cooling Mechanism  Operating Temp °F (°C)  Optional  Rating  Size (H*W*D) in (cm) **  Shape  Elastomers				Lamp	16×16×7 (F 34°-104)	(41×41×18) an o (1°-40°) 4X (IP55)	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51)	Lamp out a ing Package th NIST cer less Steel	e:	UII UL Typ	16×20×9 ( L Type 12 (I pe 4X (IP56 L Type 4X ( 22×23×9 (	(41×51×23) F: 34°-104° (P54) with F () with Fan/5 (P66) with A	an Shroud	UL Type with Fan UL Type with Fan UL Type (54-52-62-62-62-62-62-62-62-62-62-62-62-62-62	Fan 23×9 9×23) d Top  4X (IP56) /Shroud 4X (AC66) n AC 6×23) 123×9									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H*W*D) in (cm)  Shape  Cooling Mechanism  Operating Temp °F (°C)  Optional  Rating  Size (H*W*D) in (cm) **  Shape  Elastomers  Standard				Lamp	16×16×7 (F 34°-104)	(41×41×18) an o (1°-40°) 4X (IP55)	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51) Top	Lamp out a ing Package th NIST cer less Steel	e:	UII UL Typ	16×20×9 ( L Type 12 (I pe 4X (IP56 L Type 4X ( 22×23×9 (	(41×51×23) F: 34°-104° (P54) with F () with Fan/5 (P66) with A	an Shroud	UL Type with Fan UL Type with Fan UL Type (54-52-62-62-62-62-62-62-62-62-62-62-62-62-62	Fan 23×9 9×23) d Top  4X (IP56) /Shroud 4X (AC66) n AC 6×23) 123×9									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H×W×D) in (cm)  Shape  Cooling Mechanism  Operating Temp °F (°C)  Optional  Rating  Size (H×W×D) in (cm) **  Shape  Elastomers  Standard  Optional				Lamp	16×16×7 (F 34°-104)	(41×41×18) an o (1°-40°) 4X (IP55)	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51) Top Slope EP	Lamp out a ing Package th NIST cer less Steel	e:	UII UL Typ	16×20×9 ( L Type 12 (I pe 4X (IP56 L Type 4X ( 22×23×9 (	(41×51×23) F: 34°-104° (P54) with F () with Fan/5 (P66) with A	an Shroud	UL Type with Fan UL Type with Fan UL Type (54-52-62-62-62-62-62-62-62-62-62-62-62-62-62	Fan 23×9 9×23) d Top  4X (IP56) /Shroud 4X (AC66) n AC 6×23) 123×9									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H×W×D) in (cm)  Shape  Cooling Mechanism  Operating Temp °F (°C)  Optional  Rating  Size (H×W×D) in (cm) **  Shape  Elastomers  Standard  Optional  Surface Finish  Standard				Lamp	16×16×7 (F 34°-104)	(41×41×18) an o (1°-40°) 4X (IP55)	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51) Top Slope EP	Lamp out a ing Package th NIST cer less Steel	e:	UII UL Typ	16×20×9 ( L Type 12 (I pe 4X (IP56 L Type 4X ( 22×23×9 (	(41×51×23) F: 34°-104° (P54) with F () with Fan/5 (P66) with A	an Shroud	UL Type with Fan UL Type with Fan UL Type (54-52-62-62-62-62-62-62-62-62-62-62-62-62-62	Fan 23×9 9×23) d Top  4X (IP56) /Shroud 4X (AC66) n AC 6×23) 123×9									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H×W×D) in (cm)  Shape  Cooling Mechanism  Operating Temp °F (°C)  Optional  Rating  Size (H×W×D) in (cm) **  Shape  Elastomers  Standard  Optional  Surface Finish				Lamp	16×16×7 (F 34°-104)	(41×41×18) an o (1°-40°) 4X (IP55)	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51) Top Slope	Lamp out a ing Package th NIST cer less Steel	e:	UII UL Typ	16×20×9 ( L Type 12 (I pe 4X (IP56 L Type 4X ( 22×23×9 (	(41×51×23) F: 34°-104° (P54) with F () with Fan/5 (P66) with A	an Shroud	UL Type with Fan UL Type with Fan UL Type (54-52-62-62-62-62-62-62-62-62-62-62-62-62-62	Fan 23×9 9×23) d Top  4X (IP56) /Shroud 4X (IP66) n AC 6×23) :23×9									
Standard  Optional  Control Panel  Standard  Material of Construction  Rating  Size (H×W×D) in (cm)  Shape  Cooling Mechanism  Operating Temp °F (°C)  Optional  Rating  Size (H×W×D) in (cm) **  Shape  Elastomers  Standard  Optional  Surface Finish  Standard  Operating Conditions  Maximum water operating				Lamp	16×16×7 (F 34°-104)	(41×41×18) an o (1°-40°) 4X (IP55)	UL Type	operation, JV Monitori reading wi 304 Stain 1 (IP51) Top Slope EP Vit Ra 40°-1044	Lamp out a ing Package th NIST cer less Steel	e:	UII UL Typ	16×20×9 ( L Type 12 (I pe 4X (IP56 L Type 4X ( 22×23×9 (	(41×51×23) F: 34°-104° (P54) with F () with Fan/5 (P66) with A	an Shroud	UL Type with Fan UL Type with Fan UL Type (54-52-62-62-62-62-62-62-62-62-62-62-62-62-62	Fan 23×9 9×23) d Top  4X (IP56) /Shroud 4X (IP66) n AC 6×23) :23×9									

\*Dose Level: 30 mJ/cm² after 9,000 hours of operation.

\*\*Please consult drawings for exact specifications.

# $\mathsf{OptiVenn^{TM}}\:\mathsf{Series}\:|\:\mathsf{TOC}\:$

Model:	04CTM	06CTM	08DTM	08DTL	10DTL	12DTM	12DTL				
Maximum Flow Rate											
Flow rate (gpm)*				6 gpm - 36 gpm							
Flow rate (m3/hr)*	1.4 m³/hr - 8.2 m³/hr										
Number of UV Lamps	4	6	8	8	10	12	12				
Electrical Requirements											
Electrical Supply	110-240V, 50/60Hz, L-L or L-N, 2W+GND										
Operating power (W)	297	723	868	1,438	1,723	1,153	2,008				
Chamber											
Material of Construction				316L Stainless Steel							
Lamp Length - in (cm)		30 (76)		60 (	152)	30 (76)	60 (152)				
Chamber Diameter - in (cm)	6 (15	)			8 (20)						
Ansi flanges size - in (cm) Optional - Tri-clamp size - in (cm)	2 (5)			2 (5) or	· 4 (10)						
Monitoring and Controls											
Standard		Lamp Status Indi	cator, System Hours of (	Base Package: Operation, Lamp out aler	t (LOA) and Remote star	rt/stop (HOA)					
Optional				V Monitoring Package: Reading with NIST Certifi	ed Sensor						
Control Panel											
Standard											
Material of Construction				304 Stainless Steel							
Rating		UL Type 1	(IP51)		U	IL Type 12 (IP54) with Fa	ın				
Size (H×W×D) in (cm)	16×16×7 (41×41×18)		16×20×9 (41×51×23)			22×23×9 (56×59×23)					
Shape		Flat To	ор			Sloped Top					
Cooling Mechanism	Fan		Fan								
Operating Temp °F (°C)	34°-104° (1°-40°)		34°-104° (1°-40°)								
Optional											
Rating	UL Type 4X (IP55)	UL Ty	IL Type 12 (IP54) with Fa pe 4X (IP56) with Fan/S JL Type 4X (IP66) with A	Shroud	UL Type 4X (IP56) with Fan/Shroud UL Ty		Type 4X (IP66) with AC				
Size (H×W×D) in (cm)**	18×19×8 (46×49×21)		22×23×9 (56×59×23) 24.5×23×9 (62×59×23)		23×24.5×9 (59×56×23) 24.5×23×9 (62×59×23)						
Shape				Sloped Top							
Elastomers											
Standard				Viton							
Surface Finish											
Standard				Ra15							
Operating Conditions											
Maximum water operating temperature F(C)				40°-104° (5°-40°)							
14	150 (10)										
Maximum Operating Pressure PSI (BAR)											
Hot Water Sanitization °F (°C)		1	194° (90°) with stainless	steel sleeve bolts and v	iton elastomers only						

 $<sup>^\</sup>dagger\mbox{Accreditations}$  may be specific to certain configurations.

# Aquafine Performance Guarantee and Regional Support

Aquafine provides a Lifetime Performance Guarantee for its UV products. A Lifetime Performance Guarantee means that the UV system will achieve the targets for which it was designed and sized on the original sales order of the equipment which considers operational parameters such as UVT of the fluid, maximum flow rate, operating pressure, fluid temperature, among others.

The Lifetime Performance Guarantee will only be applicable with the use of genuine OEM replacement parts. This guarantee is valid for the life of the equipment and it is available for both new and existing equipment when applicable conditions are met.

Customer support is available from our Authorized Distributor Network and from our 24/7 Technical Service Group.

For questions regarding your application needs, please contact your local Authorized Distributor or Trojan Technologies for more information. Please reach out to us at www.trojantechnologies.com/en/contact.







