

## UVK™ SERIES // HIGH PERFORMANCE UV SYSTEMS

With low power consumption and ease of maintenance, UVK™ systems have proven reliability in marine applications worldwide.



**MODEL SHOWN:** UVK 3000 // **INDUSTRIES:** Marine, Marine Recreational Water // **FLOWRATES:** 31-10,695 GPM // **APPLICATIONS:** Disinfection // **DESIGN CAPABILITIES:** Custom Configurations

### UVK SERIES

These systems are designed to maximize installation flexibility with minimal footprint. Each unit incorporates 9,000 hour low-pressure high-output (LPHO) amalgam lamps, and feature halogen-free wiring and marine standard cable glands.

Systems consists of a 316L stainless steel treatment chamber (which can be installed horizontally or vertically) and a painted carbon steel control cabinet. All systems undergo rigorous quality checks, electronic functionality and hydrostatic pressure testing before leaving our facility. All systems in the series are Germanischer Lloyd and DVGW certified, and select models are NIPH certified.

Ultraviolet (UV) disinfection is a chemical-free, effective method of inactivating a wide range of waterborne pathogens on board ships.

### UV Technology

Aquafine ultraviolet (UV) systems are engineered to focus the power of concentrated UV light utilizing one or several specially designed lamps. UV technology is used throughout the world, in a wide array of applications, as a environmentally responsible way to disinfect and safeguard water against harmful microorganisms.

### Safe & Effective

UV disinfection is a chemical-free process that adds nothing to the water except UV light. It provides rapid, effective inactivation of microorganisms through a physical process. When bacteria, viruses and protozoa are exposed to the germicidal wavelengths of UV light, they are rendered incapable of reproducing and infecting. No carcinogenic disinfection by-products are created, and no transportation, storage or handling of toxic or corrosive chemicals is necessary.

### Guaranteed Performance and Support Services

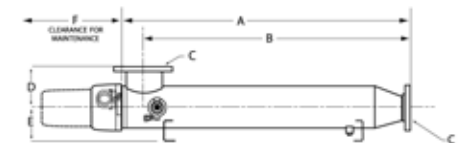
All of our systems come with a lifetime disinfection guarantee. Customer support is available from our Authorized Distributor Network and from our 24/7 Technical Service Group.

For questions regarding your application needs, please contact your local Authorized Distributor or Aquafine for more information.

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Model: UVK	1000	2000	3000	4000	6000	8000	3000D	6000D	12000D	18000D	30000D	
<b>MAXIMUM FLOW RATE - VALIDATED</b>												
MAX. FLOW RATE GPM (m <sup>3</sup> /hr) @ 40mJ/cm <sup>2</sup>	31 (7)	57 (13)	132 (30)	185 (42)	330 (75)	577 (131)	860 (195)	1189 (270)	2554 (580)	6258 (1421)	10695 (2429)	
UVT RANGE	NOMINAL RANGE OF 80%-98%						70%-98%					
WATER TEMPERATURE	1°C to 40°C (34°F to 104°F)											
<b>UV REACTOR</b>												
NUMBER OF LAMPS	1	2	3	4	6	8	3	6	12	18	30	
MATERIALS OF CONSTRUCTION	TYPE 316L STAINLESS STEEL											
MOUNTING FEET (BRACKETS)	OPTIONAL						STANDARD					
MAX. OPER. PRESSURE PSI (BAR)	150 (10) ADDITIONAL PRESSURES AVAILABLE											
REACTOR WEIGHT (DRY) LBS (KG)		34 (15)	72 (33)	75 (34)	81 (37)	85 (39)	115 (52)	275 (125)	430 (195)	665 (301)	1200 (545)	
REACTOR WEIGHT (WET) LBS (KG)		65 (29)	149 (68)	150 (68)	160 (73)	162 (85)	230 (104)	530 (240)	860 (390)	1400 (635)	2250 (1150)	
WIPING SYSTEM AVAILABLE	N/A		MANUAL/AUTOMATIC				AUTOMATIC					
<b>CONTROL PANEL (CP)</b>												
BALLAST POWER LEVEL	ELECTRONIC CONSTANT OUTPUT (100%)						ELECTRONIC VARIABLE OUTPUT (60%-100%)					
ELECTRICAL - VOLTAGES	120 V (230 V EUROPE)		208 OR 240 V, SINGLE PHASE/2 WIRE + GROUND, 50/60 Hz L-L					400/230 V, 3 PHASE/4 WIRE + GROUND, 50/60 Hz L-L				
CONTROL PANEL RATING	TYPE 12 (IP54), TYPE 3R (IP24)					TYPE 12 (IP54), TYPE 3R (IP24), TYPE 4X (IP66)						
MATERIALS OF CONSTRUCTION	PAINTED MILD STEEL (TYPE 12) SS304 (1,4301 IN EUROPE) (TYPE 3R & TYPE 4X)											
INPUTS/OUTPUTS	5 ANALOG IN, 2 DISCRETE IN / 4 ANALOG OUT, 7 DISCRETE OUT											
<b>INSTRUMENTATION</b>												
UV SENSORS PER REACTOR* (DVGW/EPA)	1						1	1	2/1	2/1	3/1	
<b>DIMENSIONS - INCHES (CM)</b>												
WITHOUT AUTO WIPER	A:	33 (83)	33 (84)	47 (119)	47 (119)	47 (119)	47 (119)	68 (173)	66 (173)	68 (173)	68 (173)	70 (178)
	B:	27 (69)	30 (75)	43 (109)	43 (109)	43 (109)	43 (109)	62 (157)	60 (152)	59 (150)	56 (142)	56 (142)
FLANGE SIZE	C:	G 1½	3 (80DN)	4 (100DN)	4 (100DN)	6 (150DN)	6 (150DN)	6 (150DN)	8 (200DN)	12 (300DN)	16 (400DN)	20 (400DN)
	D:	30 (77)	6 (15)	8 (20)	8 (20)	8 (20)	8 (20)	8 (20)	11 (27)	14 (35)	17 (42)	21 (53)
	E:	N/A	6 (15)	7 (18)	7 (18)	7 (18)	7 (18)	7 (18)	9 (23)	12 (30)	15 (38)	18 (45)
	F:	29 (73)	50 (127)	60 (152)	60 (152)	60 (152)	60 (152)	70 (178)	70 (178)	70 (178)	70 (178)	70 (178)

\*1 per 10 lamps as per DVGW & Önorm, 1 per reactor as per EPA.



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Aquafine is an ISO 9001:2008 certified company.