

UV Sterilizer

# STERITRON<sup>®</sup> UEX

## The Birth of New Generation UV

### ● Energy-Saving & Space-Saving

With the use of the new highly efficient UV lamp, electronic ballast, light and the simulation technology of the fluid, the power consumption can be reduced up to 55%.

It can also achieve a reduction of up to 27% in installation space.

### ● Improvement in Maintenance

With the use of an independent control panel, maintenance as well as overhaul can be easily managed.

### ● Loaded with the Function of estimating the life span of UV lamps

The timing for replacement of UV lamps can be known and set beforehand which is extremely useful for the purpose of planning and scheduling.

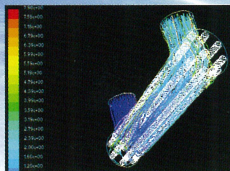


UEX4 (Type:C)



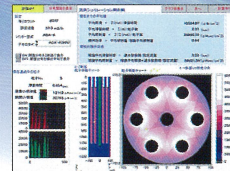
## High Reliability

The most suitable selection on the type of machines can be made according to the users' needs through fluid analysis, effective irradiation amount calculation, intensity of illumination distribution of UV rays inside the cylinder where the water flow pass through and 4 simulations of the best optimum arrangement of UV lamps.



## Adoption of Standard Source of Light

The national standard source of light and traceability has been adopted from an Independent Administrative Corporate Body which is in the Japanese Industrial Technology Research as well as from National Institute of Standard & Technology in U.S.A. By doing so, the equipment design can ensure the exact quantity of UV rays being emitted during the process.



## Specifications

Model Name			UEX1	UEX2	UEX3	UEX4	UEX6	UEX8	UEX12	UEX16	UEX24
Standard Flow Rate <sup>(*)</sup>	UV Dose 30,000 (μWsec/cm <sup>2</sup> )	Pure water (m <sup>3</sup> /h)	11	26	32	67	86	123	150	275	400
		Tap water (m <sup>3</sup> /h)	11	24	30	59	75	107	133	225	365
		Joint Size	50A	65A	100A	125A	125A	150A	200A	250A	300A
	UV Dose 50,000 (μWsec/cm <sup>2</sup> )	Pure water (m <sup>3</sup> /h)	6	15	19	37	50	69	90	161	245
		Tap water (m <sup>3</sup> /h)	6	14	18	33	44	60	80	132	220
		Joint Size	40A	50A	80A	80A	100A	125A	150A	200A	200A
Head loss <sup>(*)</sup> (m)		0.3	0.3	0.3	0.6	0.9	0.8	0.3	0.4	0.6	
UV Lamp	Q'ty	1	2	3	4	6	8	12	16	24	
	Rated life	9,000 hours (Continuous running)									
Size / Weight	Width (mm)	480	480	480	480	480	480	580	680	780	
	Depth (mm)	435	435	485	485	530	530	590	650	730	
	Height (mm)	1365	1365	1365	1365	1365	1365	1365	1365	1365	
	Body weight (kg)	45	60	90	95	120	130	175	230	320	
	Operational weight (kg)	52	66	106	110	147	156	216	289	429	
Specification	Power capacity (kVA)	0.21	0.29	0.46	0.53	0.79	1.03	1.52	2.03	3.01	
	Power consumption (kW)	0.19	0.26	0.41	0.48	0.71	0.93	1.37	1.83	2.71	
	Power source	1 φ/3 φ AC200V±10% 50/60Hz★									
	Structure	Outside type, Material:SUS304★, Quartz glass, Viton, Max pressure:1.0MPa									
	Joint type	JIS10kFF★, Joint direction:R-R, L-L, B-B									
	Color / Treatment	Control panel:5Y7/1★, Cylinder:EP (inside & outside)★									

★ : Specification is available to change by selection of option.

(\*)1 Standard flow rate as per at 20°C water.

Flow rate differs by UV dose, water temperature, water qualities.

(\*)2 Head loss is maximum value.

## Function

Function	Feature	Description	Model type			
			A	AH	B	C
UV lamp lighting indicator	Lighting indicator in panel	Indicate by LED of ballast	●	●	●	●
Time counter	Digital time counter	Indicate no. of lighting hours	●			
	Digital time counter (2 output)	Indicate no. of lighting hours, changing lamps information & timing		●	●	●
Warning (LED ON and output signal)	Warning of inside panel temperature	Detection of inside panel temperature	●	●	●	●
	UV lamp failure	Detection of UV lamp failure	(Bundled)		●	●
	Water leakage	Detection of water leakage from the cylinder			●	●
	Warning of water temperature	Prevention of UV lamp damage by hot water				●
	Warning of electric leakage	Detection by ELB (*Non indicator)			●	●
	Insufficient of UV intensity	Detection of efficiency drop				●
	Estimating the life span of UV lamps	Output of UV lamp life in advance		●	●	●
	Change of UV Lamp	Output of UV lamp life		●	●	●
Control	Pre heater	Prevention of UV lamp short life by on/off		●	●	●
	Remote operation	Remote on/off operation is available	●	●	●	●
	UV light holding	Prevention of UV lamp short life by on/off, sudden start is possible			●	●
	Confirmation signal of UV lighting	Prevention of non-sterilization after lighting			●	●
	UV intensity sensor	Performance management is possible by UV intensity sensor				●
Option★	Transformer	Change voltage to 200V			★	
	Warning patrol lamp	Lighting patrol lamp at warning			★	
	Material of cylinder	SUS316, SUS316L, Selectable			★	
	Buff polished	Outface cylinder : Buff #200, Enface cylinder : Buff #400 (Sanitary)			★	
	Joint type	Ferrule and IDF screw etc			★	
	Heat exchanger	Can be used even at mist area			★	
	SUS panel	Made by stainless			★	

● Loaded ★ Optional (Can be selected)