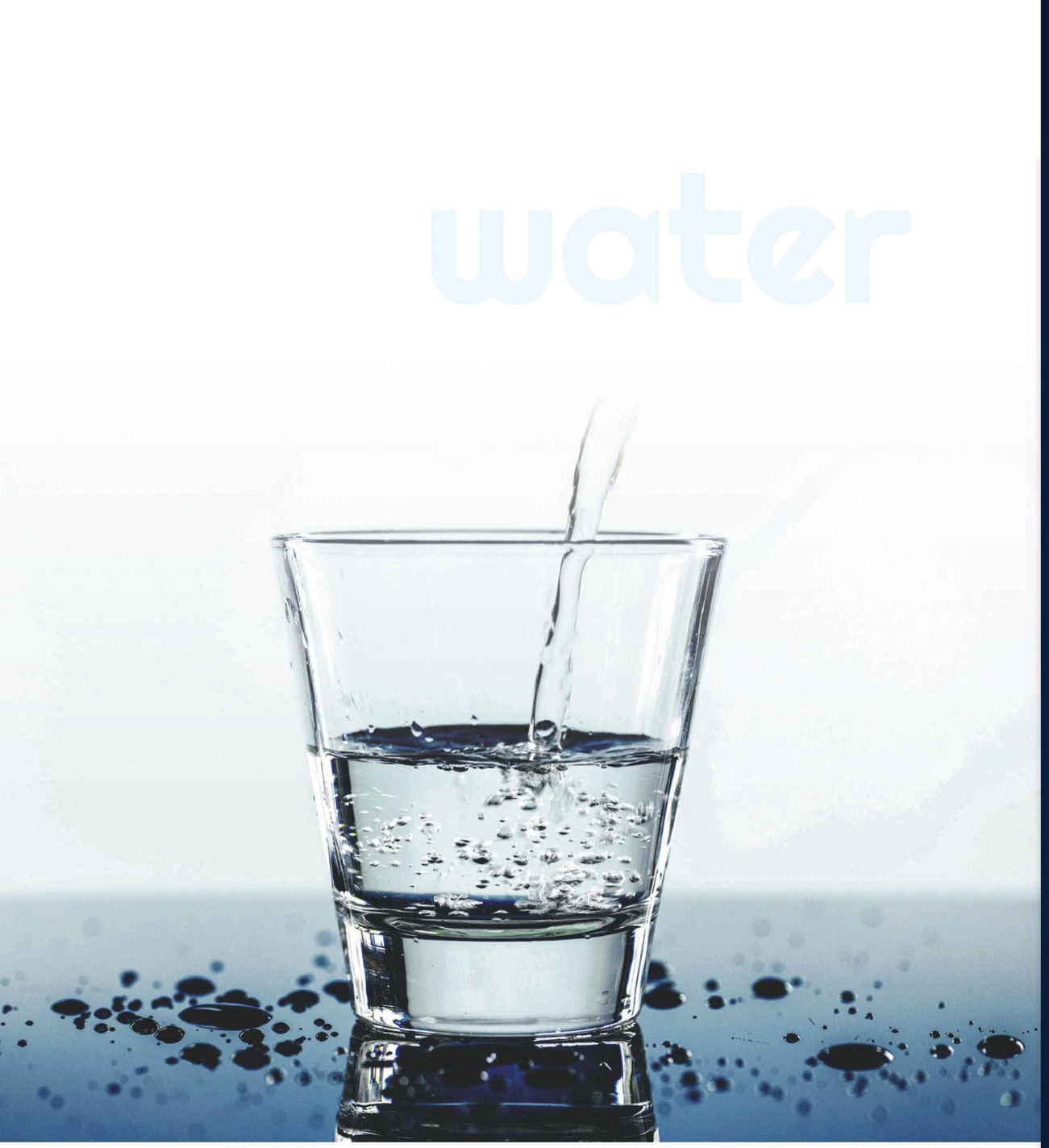
UV WATER PURIFIER AND STERILIZER



Water, Source of life!

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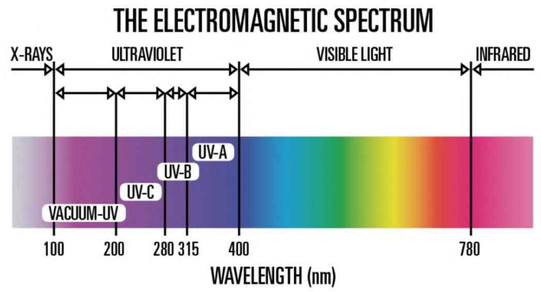
What is Ultra Violet (UV) light?

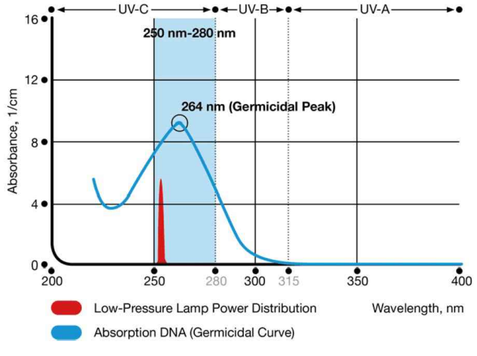
When UV light meets a microorganisms it penetrates its DNA, destroying the adenine and thymine bonds effectively inactivating bacteria, viruses, spores and moulds, by stopping them from multiplying and causing infection.

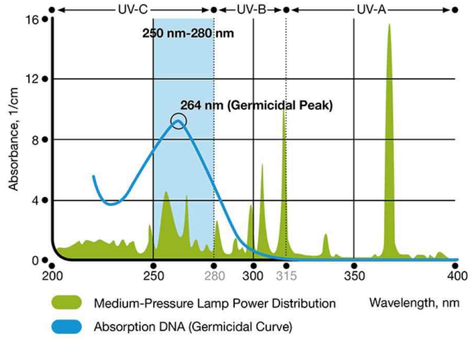


There are two mainstream UVC lamp technologies used in Industrial and Municipal applications:

Amalgam lamps offer a monochromatic (Single wavelength) output at 254nm with 30%+ conversion of electricity to UVC. These lamps are efficient but their energy density is low which means they are relatively low power (100 to 800 W) and long. They are used when efficiency is key, but larger multi-lamp systems can be bulky and difficult to maintain.

Medium Pressure lamps offer a polychromatic output across a wide spectrum. This can be useful to match the sensitivity of a target organism, but they have a lower energy efficiency (~15%). Conversely they are high powered (1kw to 24KW) and short which means you need less lamps in a smaller reactor.





BENEFITS OF
USING LOW PRESSURE OR MEDIUM PRESSURE LAMPS

		Low Pressure	Medium Pressure
Low power use	Low pressure lamps are more efficient, but are lower powered	✓	
Efficient at higher flow rates	Medium pressure lamps run at a much higher power density to low pressure lamps so one medium pressure lamp can treat a much higher flow than a single low pressure lamp.		✓
Low power use	Medium pressure lamps for the same UV out put are around a third of the length of a low pressure lamp and so systems are much smaller.		✓
Lamp life	Low pressure lamps typically last 9000 to 15000 hours while the latest generation medium pressure lamps last about 9000 hours.	✓	
Save on maintenance	For the same conditions medium pressure UV systems generally have a smaller footprint and use fewer lamps than Low pressure system.		
Disinfection efficiency	Medium pressure has a higher UV light energy output and not only breaks a microbe's DNA ,bond but also ruptures the cell wall. Some microorganisms are much more sensitive to these multiple wavelengths produced by medium pressure lamps.		✓
High water temperature	Medium pressure UV systems are hardly affected by the water temperature, whereas low pressure can only operate between 5-40℃		✓
Low running temperature	Low pressure lamps run at about 120℃, whereas medium pressure runs at 600℃ to 800℃	✓	
Status 'ON' after no water flow	In many cases LP systems can operate for longer without any water flow than MP systems.	✓	

These two lamp technologies offer a choice of reactor design which allows us to weigh the pros and cons of size and efficiency for a given application.

As we provide both types of lamp we are uniquely placed to assess these competing characteristics to arrive at our “Application Optimised UV” solutions.

SSE SERIES

Voltage
110V/220V 50/60Hz

Alarm
Audible and visual

Indicator
Lamp operation and failure

Optional digital display ballast

FEATURES

- High quality UV ballast meets international certification such as CE, UL standard
- Reliable High-performance UV lamp, rigorously tested to provide consistent output over the entire lamp life
- Controller will go into alarm if the lamp fails
- UV chamber with great welding process which enables to pass 1.04MPa 100,000 times water hammer test
- Perfect for a wide range of single-faucet, point-of-use or low flow point-of-entry water treatment solutions in homes, cottages, or OEM applications.

WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8MPa(116psi)
- Ambient water temperature 2-40°C(36-104°F)
- Iron<0.3ppm(0.3mg/L)
- Hardness<7gpg(120mg/L)
- Turbidity<1NTU
- UV transmittance>75%
- UV dose≧30mJ/cm²

Model	Flow rate		Reactor dimension	In/outlet port BSP/NPT	Package size cm	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m³/hr	GPM							
SSE-004	0.07	0.3	200 X 50.8mm	1/4"female	47 X 39 X 51 /15sets	UVT5-404	4w	QT5-185	EB-G6
SSE-006	0.1	0.5	260 X 50.8mm	1/4"female	47 X 39 X 51 /15sets	UVT5-406	6w	QT5-245	EB-G6
SSE-012	0.2	1	315 X 50.8mm	1/4"female	52.5 X 39 X 52 /15sets	UVT5-412	12w	QT5-300	EB-G16
SSE-016	0.4	2	375 X 63.5mm	1/2"male	57 X 40 X 52 /15sets	UVT5-416	16w	QT5-360	EB-G16
SSE-025	1.4	6	595 X 63.5mm	1/2"male	79.5 X 28 X 41.5 /8sets	UVT5-425	25w	QT5-580	EB-G28
SSE-030	1.8	8	915 X 63.5mm	3/4"male	119 X 28 X 41.5 /8sets	UVT5-430	30w	QT5-900	EB-G35
SSE-035	2.0	9	955 X 63.5mm	3/4"male	119 X 28 X 41.5 /8sets	UVT5-435	35w	QT5-940	EB-G35
SSE-040	2.3	10	890 X 63.5mm	3/4"male	112.5 X 28 X 41.5 /8sets	UVT5-440	40w	QT5-875	EB-G55
SSE-055	2.7	12	955 X 63.5mm	3/4"male	119 X 28 X 41.5 /8sets	UVT5-455	55w	QT5-940	EB-G55

* Chamber material: 304 SS (316L is optional); Philips uv lamp is optional

SDE SERIES

Voltage
110V/220V 50/60Hz

Alarm
Audible and visual

Indicator
Lamp operation and failure

Optional digital display ballast

FEATURES

- High quality UV ballast meets international certification such as CE, UL standard
- Reliable High-performance UV lamp, rigorously tested to provide consistent output over the entire lamp life
- Controller will go into alarm if the lamp fails
- UV chamber with great welding process which enables to pass 1.04MPa 100,000 times water hammer test
- Perfect for a wide range of single-faucet, point-of-use or low flow point-of-entry water treatment solutions in homes, cottages, or OEM applications.

WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8MPa(116psi)
- Ambient water temperature 2-40°C(36-104°F)
- Iron<0.3ppm(0.3mg/L)
- Hardness<7gpg(120mg/L)
- Turbidity<1NTU
- UV transmittance>75%
- UV dose≧30mJ/cm²

Model	Flow rate		Reactor dimension	In/outlet port BSP/NPT	Package size cm	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m³/hr	GPM							
SDE-004	0.07	0.3	195 X 50.8mm	1/4"female	47 X 39 X 51 /15sets	UVT5-404	4w	QT5-185	EB-G6
SDE-006	0.1	0.5	255 X 50.8mm	1/4"female	47 X 39 X 51 /15sets	UVT5-406	6w	QT5-245	EB-G6
SDE-012	0.2	1	310 X 50.8mm	1/4"female	52.5 X 39 X 52 /15sets	UVT5-412	12w	QT5-300	EB-G16
SDE-016	0.4	2	370 X 63.5mm	1/2"male	57 X 40 X 52 /15sets	UVT5-416	16w	QT5-360	EB-G16
SDE-025	1.4	6	590 X 63.5mm	1/2"male	79.5 X 28 X 41.5 /8sets	UVT5-425	25w	QT5-580	EB-G28
SDE-030	1.8	8	910 X 63.5mm	3/4"male	119 X 28 X 41.5 /8sets	UVT5-430	30w	QT5-900	EB-G35
SDE-035	2.0	9	950 X 63.5mm	3/4"male	119 X 28 X 41.5 /8sets	UVT5-435	35w	QT5-940	EB-G35
SDE-040	2.3	10	885 X 63.5mm	3/4"male	112.5 X 28 X 41.5 /8sets	UVT5-440	40w	QT5-875	EB-G55
SDE-055	2.7	12	950 X 63.5mm	3/4"male	119 X 28 X 41.5 /8sets	UVT5-455	55w	QT5-940	EB-G55

* Chamber material: 304 SS (316L is optional); Philips uv lamp is optional

SDS SERIES

- Voltage
  110V/220V 50/60Hz
- Alarm
  Audible and visual
- Indicator
  Lamp operation and failure
- Optional digital display ballast

FEATURES

- High quality UV ballast meets international certification such as CE, UL standard
- Reliable High-performance UV lamp, rigorously tested to provide consistent output over the entire lamp life
- Controller will go into alarm if the lamp fails
- UV chamber with great welding process which enables to pass 1.04MPa 100,000 times water hammer test

WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8MPa(116psi)
- Ambient water temperature 2-40°C(36-104°F)
- Iron<0.3ppm(0.3mg/L)
- Hardness<7gpg(120mg/L)
- Turbidity<1NTU
- UV transmittance>75%
- UV dose≧30mJ/cm^2

Model	Flow rate		Reactor dimension	In/outlet port BSP/NPT	Package size cm	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m^3/hr	GPM							
SDS-110	5.4	24	950 X 108mm	1"male	102.5 X 22.4 X 42 /1set	UVT5-455	55w X 2	QT5-940	EB-G55
SDS-165	8.1	36	950 X 133mm	1.5"male	102.5 X 24.8 X 45 /1set	UVT5-455	55w X 3	QT5-940	EB-G55
SDS-220	10.9	48	950 X 133mm	1.5"male	102.5 X 24.8 X 45 /1set	UVT5-455	55w X 4	QT5-940	EB-G55

* Chamber material: 304 SS (316L is optional); Thread or flange as options; Philips uv lamp is optional

SDB SERIES

- Voltage
  110V/220V 50/60Hz
- Alarm
  Audible and visual
- Indicator
  Lamp operation and failure
- Optional digital display ballast
- UV intensity monitor
  Optional

FEATURES

- Features running timer with digital display and audible lamp change reminder for ease of maintenance
- Reliable High-performance UV lamp, rigorously tested to provide consistent output over the entire lamp life
- Controller will go into alarm if the lamp fails
- UV chamber with great welding process which enables to pass 1.04MPa 100,000 times water hammer test

WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8MPa(116psi)
- Ambient water temperature 2-40°C(36-104°F)
- Iron<0.3ppm(0.3mg/L)
- Hardness<7gpg(120mg/L)
- Turbidity<1NTU
- UV transmittance>75%
- UV dose≧30mJ/cm^2

Model	Flow rate		Reactor dimension	In/outlet port BSP/NPT	Package size cm	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m^3/hr	GPM							
SDB-110	5.4	24	950 X 108mm	1"male	102.5 X 22.4 X 42 /1set	UVT5-455	55w X 2	QT5-940	ZAP3-425-55
SDB-165	8.1	36	950 X 133mm	1.5"male	102.5 X 24.8 X 45 /1set	UVT5-455	55w X 3	QT5-940	ZAP3-425-55
SDB-220	10.9	48	950 X 133mm	1.5"male	102.5 X 24.8 X 45 /1set	UVT5-455	55w X 4	QT5-940	ZAP3-425-55
SDB-330	16.3	72	950 X 168mm	2"male	107.0 X 35.0 X 60 /1set	UVT5-455	55w X 6	QT5-940	ZAP3-425-55
SDB-440	21.8	96	950 X 219mm	3"male	107.0 X 40.0 X 70 /1set	UVT5-455	55w X 8	QT5-940	ZAP3-425-55
SDB-550	27.2	120	950 X 275mm	4"male	109.0 X 48.0 X 80 /1set	UVT5-455	55w X 10	QT5-940	ZAP3-425-55
SDB-660	32.7	144	950 X 275mm	4"male	109.0 X 48.0 X 80 /1set	UVT5-455	55w X 12	QT5-940	ZAP3-425-55

* Chamber material: 304 SS (316L is optional); Thread or flange as options; Philips uv lamp is optional

FS SERIES

- Voltage
  110V/220V 50/60Hz
- This water flow sensor has a unique design and good waterproof performance.
- Easy installation
- UV lamp is off with no water flow , preventing water getting hot

FEATURES

- High stability electronic ballast, UV lamp failure alarm
- Reliable High-performance UV lamp, rigorously tested to provide consistent output over the entire lamp life
- Automatic power off when no water flowing
- The small footprint for the point-of-use, single-tap system provides a reliable and economical way to treat drinking water in any residential application
- UV chamber with great welding process which enables to pass 1.04MPa 100,000 times water hammer test

WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8MPa(116psi)
- Ambient water temperature 2-40°C(36-104°F)
- Water flow rate>5mL/sec,the lamp turns on; water flow rate<1.6mL/sec, the lamp turns off
- Iron<0.3ppm(0.3mg/L)
- Hardness<7gpg(120mg/L)
- Turbidity<1NTU
- UV transmittance>75%
- UV dose≧30mJ/cm^2

Model	Flow rate		Reactor dimension	In/outlet port BSP/NPT	Flow sensor model NO.	Package size cm	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m^3/hr	GPM								
SSE-004FS	0.07	0.3	200 X 50.8mm	1/4"quick-fitting	FS-7	47 X 39 X 51 /15sets	UVT5-404	4w	QT5-185	EB-G6FS
SSE-006FS	0.1	0.5	260 X 50.8mm	1/4"quick-fitting	FS-7	47 X 39 X 51 /15sets	UVT5-406	6w	QT5-245	EB-G6FS
SSE-012FS	0.2	1	315 X 50.8mm	1/4"quick-fitting	FS-7	52.5 X 39 X 52 /15sets	UVT5-412	12w	QT5-300	EB-G16FS
SSE-016FS	0.4	2	375 X 63.5mm	3/8"quick-fitting	FS-2	57 X 40 X 52 /15sets	UVT5-416	16w	QT5-360	EB-G16FS
SSE-025FS	1.4	6	595 X 63.5mm	1/2"male	HT-60	79.5 X 28 X 41.5 /8sets	UVT5-425	25w	QT5-580	EB–G28FS
SSE-030FS	1.8	8	915 X 63.5mm	3/4"male	HT-120	119 X 28 X 41.5 /8sets	UVT5-430	30w	QT5-900	EB–G35FS
SSE-035FS	2.0	9	955 X 63.5mm	3/4"male	HT-120	119 X 28 X 41.5 /8sets	UVT5-435	35w	QT5-940	EB–G35FS
SSE-040FS	2.3	10	890 X 63.5mm	3/4"male	HT-120	112.5 X 28 X 41.5 /8sets	UVT5-440	40w	QT5-875	EB–G35FS
SSE-055FS	2.7	12	955 X 63.5mm	3/4"male	HT-120	119 X 28 X 41.5 /8sets	UVT5-455	55w	QT5-940	EB–G35FS

* Chamber material: 304 SS (316L is optional); Philips uv lamp is optional

YS SERIES

- Voltage
  110V/220V 50/60Hz
- This water flow sensor has a unique design and good waterproof performance.
- Easy installation
- 1-999 seconds delay off

FEATURES

- High stability electronic ballast, UV lamp failure alarm
- Reliable High-performance UV lamp, rigorously tested to provide consistent output over the entire lamp life
- Unique Design of UV ballast with flow sensor and delayed function to prolong the lifetime of the UV lamp up to more than 20,000hrs
- The small footprint of the point-of-use, single-tap system provides a reliable and economical way to treat drinking water in any residential application
- UV chamber with great welding process which enables to pass 1.04MPa 100,000 times water hammer test

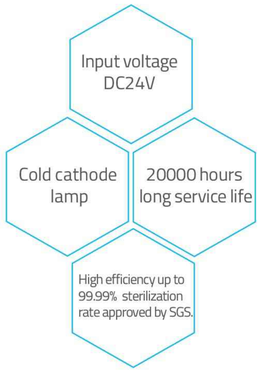
WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8MPa(116psi)
- Ambient water temperature 2-40°C(36-104°F)
- Water flow>5mL/sec, lamp working, settle delay shutdown 0-999 seconds
- Iron<0.3ppm(0.3mg/L)
- Hardness<7gpg(120mg/L)
- Turbidity<1NTU
- UV transmittance>75%
- UV dose≧30mJ/cm^2

Model	Flow rate		Reactor dimension	In/outlet port BSP/NPT	Flow sensor model NO.	Package size cm	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m^3/hr	GPM								
SSE-004YS	0.07	0.3	200 X 50.8mm	1/4"quick-fitting	FS-7	47 X 39 X 51 /15sets	UVT5-404	4w	QT5-185	EB-G6YS
SSE-006YS	0.1	0.5	260 X 50.8mm	1/4"quick-fitting	FS-7	47 X 39 X 51 /15sets	UVT5-406	6w	QT5-245	EB-G6YS
SSE-012YS	0.2	1	315 X 50.8mm	1/4"quick-fitting	FS-7	52.5 X 39 X 52 /15sets	UVT5-412	12w	QT5-300	EB-G16YS
SSE-016YS	0.4	2	375 X 63.5mm	3/8"quick-fitting	FS-2	57 X 40 X 52 /15sets	UVT5-416	16w	QT5-360	EB-G16YS
SSE-025YS	1.4	6	595 X 63.5mm	1/2"male	HT-60	79.5 X 28 X 41.5 /8sets	UVT5-425	25w	QT5-580	ZUP13-425-55
SSE-030YS	1.8	8	915 X 63.5mm	3/4"male	HT-120	119 X 28 X 41.5 /8sets	UVT5-430	30w	QT5-900	ZUP13-425-55
SSE-035YS	2.0	9	955 X 63.5mm	3/4"male	HT-120	119 X 28 X 41.5 /8sets	UVT5-435	35w	QT5-940	ZUP13-425-55
SSE-040YS	2.3	10	890 X 63.5mm	3/4"male	HT-120	112.5 X 28 X 41.5 /8sets	UVT5-440	40w	QT5-875	ZUP13-425-55
SSE-055YS	2.7	12	955 X 63.5mm	3/4"male	HT-120	119 X 28 X 41.5 /8sets	UVT5-455	55w	QT5-940	ZUP13-425-55

* Chamber material: 304 SS (316L is optional); Philips uv lamp is optional

SCC SERIES



WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8MPa(116psi)
- Ambient water temperature 2-40°C(36-104°F)
- Iron<0.3ppm(0.3mg/L)
- Hardness<7gpg(120mg/L)
- Turbidity<1NTU
- UV transmittance>75%
- UV dose≧30mJ/cm²

WORKING PRINCIPLE

The cold cathode lamp is a low-pressure glow gas discharge lamp. The glow discharge uses positive ions to bombard a high-purity metal cathode to generate secondary electrons to sustain the discharge. The cathode current is mainly contributed by the positive ions, and the current is relatively small. hence the name "cold cathode".

FEATURES

- Compact size
- Low power consumption
- Frequently turn on/off does not affect the life of the lamp.
- With an average life span of more than 20,000 hours
- UV chamber with great welding process which enables to pass 1.04MPa 100,000 times water hammer test

Model	Flow rate		Reactor dimension	In/outlet port	Package size cm	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m³/hr	GPM							
SCC-004A	0.07	0.3	160 X 30mm	1/4"quick-fitting	45 X 29.5X 29 /12sets	UVU2-204	4w	QT2-115	ZD24P9-10-6
SCC-004B	0.07	0.3	125 X 38mm	1/4"quick-fitting	45 X 29.5X 29 /12sets	UVU2-204	4w	QT2-115	ZD24P9-10-6
SCC-006	0.1	0.5	170 X 38mm	1/4"quick-fitting	45 X 29.5X 29 /12sets	UVU2-206	6w	QT2-157	ZD24P9-10-6

* Chamber material: 304 SS (316L is optional)

ST08 SERIES

- Voltage
  110V/220V 50/60Hz
- Alarm
  Audible and visual
- Indicator
  Lamp operation and failure
  UL certificated digital timer ballast
- UV intensity monitor
  Optional

FEATURES

- Reliable High-performance UV lamp, rigorously tested to provide consistent output over the entire lamp life
- Audible lamp replacement reminder and 365 days countdown timer with digital display.
- Ease of Maintenance
- Perfect for a wide range of whole-home, point-of-entry water treatment solutions in homes, cottages, or OEM applications.
- UV chamber with great welding process which enables to pass 1.04MPa 100,000 times water hammer test
- Features 1/2" female & 3/4" male thread for compatible connections

WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8MPa(116psi)
- Ambient water temperature 2-40°C(36-104°F)
- Iron<0.3ppm(0.3mg/L)
- Hardness<7gpg(120mg/L)
- Turbidity<1NTU
- UV transmittance>75%
- UV dose≧30mJ/cm²

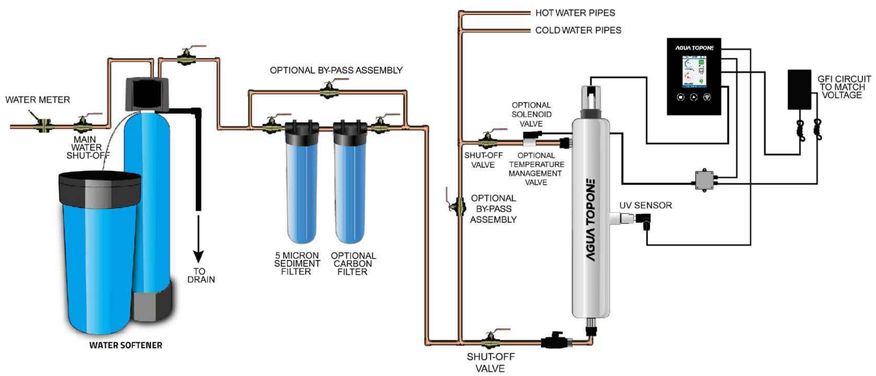
Model	Flow rate		Reactor dimension	In/outlet port BSP/NPT	Package Size (cm)	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m³/hr	GPM							
ST08-T516	0.68	3	410×63.5mm	1/2"female & 3/4"male	79.5 X 28 X 43cm/8sets	TUV16W4PSE	16w	QT5-360	ZUM1-425-55
ST08-T525	1.6	7	640×63.5 mm	1/2"female & 3/4"male	94 X 28 X 42cm/8sets	TUV25W4PSE	25w	QT5-580	ZUM1-425-55
ST08-T540	2.73	12	938×63.5 mm	1/2"female & 3/4"male	129 X 28 X 43cm/8sets	TUV40W4PSE	40w	QT5-875	ZUM1-425-55
ST08-T575	4.54	20	938×63.5 mm	1/2"female & 3/4"male	129 X 28 X 43cm/8sets	TUV75W4PSE	75w	QT5-875	ZUM1-800-120

* Chamber material: 304 SS (316L is optional)

SAG SERIES

Ultraviolet (UV) is the time-tested and proven method for simple, user friendly disinfection. When you have water that is microbiologically unsafe or a critical application that needs extra pathogen protection, UV is a great choice to ensure maximum water safety. The SNOWATE home family of compact UV disinfection systems provide a reliable, economical, and chemical-free way to safeguard drinking water in any residential application. SNOWATE's SAG range of products have been designed to ensure quality drinking water is at everyone's finger tips.

The SAG series offers disinfection for flow rates as high as 36GPM, covering a wide variety of residential and light commercial use.



Features of SAG UV water disinfection systems

- Electronic controller with water proof feature(IP67 grade),the new LCD display shows constant clear UV intensity , lamp life countdown timer, water temperature, etc. Special lamp connector with automatic shut off function.
- Patented design for safety using to avoid the risk of UV radiation.
- Unique design for safety ground to avoid the risk of electrical shock.
- New and improved sensor ensures safe UV levels are maintained.
- High output mercury UV lamp provide reliable, consistent UV treatment .
- Stainless Steel Reactor Chamber made of 316L.
- Patented Design 4 Pin connector.
- Simple mounting clips allow for mounting, easing installation.

SPECIFICATIONS

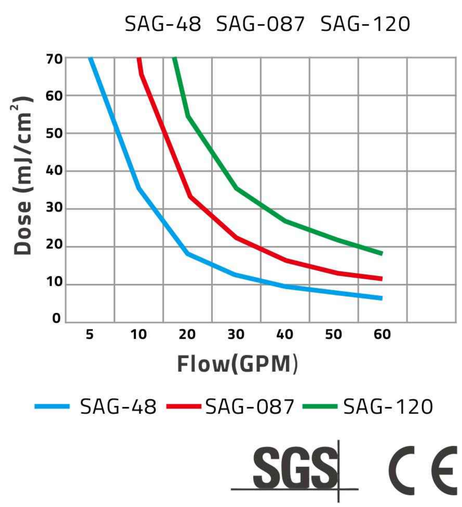
Model No.	SAG-048	SAG-087	SAG-120
FLOW RATES (@ 95% UVT)			
US public health(16 mJ/cm^2)	22.5GPM	41.25GPM	67.5GPM
ATO standard(30mJ/cm2)	12GPM	22GPM	36GPM
DIMENSIONS			
Chamber	89X580mm	89X985mm	89X1293mm
Controller	200X160X65mm	200X160X65mm	200X160X65mm
Inlet/Outlet Port Size	3/4"female & 1"male	3/4"female & 1"male	3/4"female & 1"male
ELECTRICAL			
Voltage	100-240V / 50/60 Hz	100-240V / 50/60 Hz	100-240V / 50/60 Hz
Power comsuption	53W	95W	132W
Maxium Operating pressure	125PSI(8.6bar)	125PSI(8.6bar)	125PSI(8.6bar)
Influent Water temperature	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)
FEATURES			
Visual Power On	Yes	Yes	Yes
Chamber material	316L	316L	316L
Visual Lamp Life Remaining	Yes	Yes	Yes
Audible Lamp Failure	Yes	Yes	Yes
Audible Lamp Replacement Reminder	Yes	Yes	Yes
UV Sensor	Yes	Yes	Yes

REPLACEMENT PARTS

Model No.	SAG-048	SAG-087	SAG-120
SPECIFICATIONS			
UV Lamp	UVL2T5-448	UVL2T5-487	UVL2T5-4120
Quart Tube	QT5-470	QT5-875	QT5-1183
UV Sensor	G4HV05TIS	G4HV05TIS	G4HV05TIS
Electronic Ballast	ZUP11-800-120	ZUP11-800-120	ZUP11-800-120

Water Quality Parameters

Hardness	Iron	Tannins
<7 grains(120mg/L)	<0.3mg/L	<0.1mg/L



SB10 SERIES

- Voltage
  110V/220V 50/60Hz
- Alarm
  Audible and visual
- Indicator
  Lamp operation and failure
- Digital display ballast
- UV intensity monitor
  Optional
- PLC program control is optional

FEATURES

- Reliable High-performance UV lamp, rigorously tested to provide consistent output over the entire lamp life
- The constant current feature ensures stable UV lamp output, regardless of power fluctuations failure alarm
- Muti-lamps system design reduced the risk of one lamp failure.
- Optimized chamber design and product flexibility enables cost-effective installation in extremely compact spaces.

WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8MPa(116psi)
- Ambient water temperature 2-40°C(36-104°F)
- Iron<0.3ppm(0.3mg/L)
- Hardness<7gpg(120mg/L)
- Turbidity<1NTU
- UV transmittance>75%
- UV dose≧30mJ/cm²

Model	Flow rate		Reactor dimension	In/outlet port	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m³/hr	GPM						
SB10-H02	14	61	1212×133 mm	DN65(2.5'')	GHO1148T5L/4P	120w X 2	QT5-1183	ZUM3-800-120
SB10-H03	27	120	1212×168 mm	DN80(3'')	GHO1148T5L/4P	120w X 3	QT5-1183	ZUM3-800-120
SB10-H04	35	155	1212×168 mm	DN100(4'')	GHO1148T5L/4P	120w X 4	QT5-1183	ZUM3-800-120
SB10-H05	58	255	1212×219 mm	DN100(4'')	GHO1148T5L/4P	120w X 5	QT5-1183	ZUM3-800-120
SB10-H06	69	305	1212×219mm	DN125(5'')	GHO1148T5L/4P	120w X 6	QT5-1183	ZUM3-800-120
SB10-H07	80	355	1212×219 mm	DN125(5'')	GHO1148T5L/4P	120w X 7	QT5-1183	ZUM3-800-120
SB10-HA3	105	465	1618×219 mm	DN150(6'')	GPHHA1554T6L	320w X 3	QT6-1589	ZUM4-2100-320
SB10-HA4	137	605	1618×219 mm	DN150(6'')	GPHHA1554T6L	320w X 4	QT6-1589	ZUM4-2100-320
SB10-HA5	168	740	1618×219 mm	DN150(6'')	GPHHA1554T6L	320w X 5	QT6-1589	ZUM4-2100-320
SB10-HA6	198	870	1618×219 mm	DN150(6'')	GPHHA1554T6L	320w X 6	QT6-1589	ZUM4-2100-320
SB10-HA7	298	1315	1618×274 mm	DN200(8'')	GPHHA1554T6L	320w X 7	QT6-1589	ZUM4-2100-320
SB10-HA8	337	1485	1618×274mm	DN200(8'')	GPHHA1554T6L	320w X 8	QT6-1589	ZUM4-2100-320
SB10-HA9	459	2021	1618×325 mm	DN250(10'')	GPHHA1554T6L	320w X 9	QT6-1589	ZUM4-2100-320
SB10-HA10	505	2225	1618×325 mm	DN250(10'')	GPHHA1554T6L	320w X 10	QT6-1589	ZUM4-2100-320

* Chamber material: 304 SS (316L is optional); 4 pins or 4 pins Lightsources uv lamp as options

SA SERIES

PRODUCT FEATURES:

- Cleaning mechanism: The motor installed on the end of chamber drives the wiper to clean the quartz tube automatically according to the cleaning time we set up while without disrupting disinfection work.
- Monitor control panel indicated through an LCD display to show reminding uv lamp life, system total running hours, audible & visual failure alarm, water temperature, real-time uv intensity.
- PLC intelligent control for unattended operation, Precise cleaning structure and automatically cleaning to continuously ensure high uv transmittance and disinfection. Humanized touch screen is convenient for installation, daily maintenance and monitoring.

Model	Flow rate		Reactor dimension	In/outlet port	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m³/hr	GPM						
SA-3120	35	155	1420×168 mm	DN80(3'')	GHO1148T5L/4P	120w X 3	QT6-1183	ZUM3-800-120
SA-4120	45	200	1420×219 mm	DN100(4'')	GHO1148T5L/4P	120w X 4	QT6-1183	ZUM3-800-120
SA-5120	55	245	1420×219mm	DN125(5'')	GHO1148T5L/4P	120w X 5	QT6-1183	ZUM3-800-120
SA-6120	70	310	1420×274mm	DN150(6'')	GHO1148T5L/4P	120w X 6	QT6-1183	ZUM3-800-120
SA-7120	80	355	1420×274mm	DN150(6'')	GHO1148T5L/4P	120w X 7	QT6-1183	ZUM3-800-120
SA-8120	95	420	1420×274mm	DN200(8'')	GHO1148T5L/4P	120w X 8	QT6-1183	ZUM3-800-120
SA-9120	120	530	1420×325mm	DN200(8'')	GHO1148T5L/4P	120w X 9	QT6-1183	ZUM3-800-120

* Chamber material: 304 SS (316L is optional)

SBA SERIES

PRODUCT FEATURES: :

- Incorporates an automatic self-cleaning mechanism which is pneumatically driven that prevents the quartz from fouling without requiring harsh chemical cleaning like other conventional systems.
- UV monitoring: high-precision UV intensity sensor, real-time detection of the operation status of the UV lamp in the chamber.
- Customized high transmittance quartz tube over 90% at 253.7nm to protect uv lamp and guarantee the disinfection performance.
- The compressed air drives the wiper inside to clean the quartz tube automatically according to the cleaning time we set up while without disrupting disinfection work.

Model	Flow rate		Reactor dimension	In/outlet port	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m^3/hr	GPM						
SBA10-4320	120	530	1665×219 mm	DN125(5'')	GPHHA1554T6L	320w X 4	QT6-1630	ZUM4-2100-320
SBA10-5320	150	660	1665×219 mm	DN150(6'')	GPHHA1554T6L	320w X 5	QT6-1630	ZUM4-2100-320
SBA10-6320	230	1012	1665×274mm	DN200(8'')	GPHHA1554T6L	320w X 6	QT6-1630	ZUM4-2100-320
SBA10-8320	300	1320	1665×274 mm	DN250(10'')	GPHHA1554T6L	320w X 8	QT6-1630	ZUM4-2100-320
SBA10-10320	450	1980	1665×325mm	DN300(12'')	GPHHA1554T6L	320w X 10	QT6-1630	ZUM4-2100-320
SBA10-12320	530	2335	1665×325 mm	DN300(12'')	GPHHA1554T6L	320w X 12	QT6-1630	ZUM4-2100-320

* Chamber material: 304 SS (316L is optional); 4 pins or 4 pins Lightsources uv lamp as options

SIB SERIES

- Voltage
  110V/220V 50/60Hz
- Alarm
  Audible and visual
- Indicator
  Lamp operation and failure
- Time relay
- UV intensity monitor
  Optional

FEATURES

EFFECTIVE

99.9%destruction of bacteria(such as Ecoli), viruses and protozoan cysts.

SAFE

No chemicals added to water and no danger of overdosing.

EASY

Simple installation. Audible and visual alarm if lamp fails.

ECONOMICAL

Low maintenance cost and easy servicing

REQUIREMENT

- Max Working Water Pressure : 8bar(116psi)
- Ambient water temperature : 2-40℃
- UV transmittance> 75%
- Turbidity < 1 NTU
- Iron < 0.3ppm(0.3mg/L)
- Hardness < 7gpg(120mg/L)

Model	Flow rate		Reactor dimension	In/outlet port BSP/NPT	Package size cm	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m^3/hr	GPM							
SIB-187	5.4	24	885×89 mm	1''male	102.5 ×22.4×42cm/1set	UVT5-487	87w×1	QT5-875	ZAP3
SIB-287	10	53	885×108 mm	1''male	102.5 ×22.4×42cm/1set	UVT5-487	87w×2	QT5-875	ZAP3
SIB-387	18	97	885×133mm	1.5''male	102.5 ×24.8×45cm/1set	UVT5-487	87w×3	QT5-875	ZAP3
SIB-487	24	132	885×133mm	1.5''male	102.5 ×24.8×45cm/1set	UVT5-487	87w×4	QT5-875	ZAP3
SIB-587	37	163	885×168mm	2''male	107.0 ×35.0×60cm/1set	UVT5-487	87w×5	QT5-875	ZAP3
SIB-687	45	198	885×168mm	2''male	107.0 ×35.0×60cm/1set	UVT5-487	87w×6	QT5-875	ZAP3
SIB-787	60	230	885×219mm	3''male	107.0 ×40.0×70cm/1set	UVT5-487	87w×7	QT5-875	ZAP3
SIB-887	67	264	885×219mm	3''male	107.0 ×40.0×70cm/1set	UVT5-487	87w×8	QT5-875	ZAP3

- Chamber Material: 304SS(316L SS available on rdquest) is optional
- 4 pins or 2+2 pins Philips uv lamp as options

Secondary water supply disinfection | sterilization of whole house water | sterilization of circulating water | Spring or swimming pool | Industrial water sterilization | Tap water sterilization

SIBM SERIES

- **Voltage** 110V/220V 50/60Hz
- **Alarm** Audible and visual
- **Indicator** Lamp operation and failure
- **Time relay**
- **UV intensity monitor** Optional

FEATURES

EFFECTIVE
99.9%destruction of bacteria(such as Ecoli), viruses and protozoan cysts.

SAFE
No chemicals added to water and no danger of overdosing.

EASY
Simple installation. Audible and visual alarm if lamp fails.

ECONOMICAL
Low maintenance cost and easy servicing

REQUIREMENT

- Max Working Water Pressure：8bar(116psi)
- Ambient water temperature：2-40℃
- UV transmittance>75%
- Turbidity < 1 NTU
- Iron < 0.3ppm(0.3mg/L)
- Hardness < 7gpg(120mg/L)

Model	Flow rate		Reactor dimension	In/outlet port	Package size cm	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m^3/hr	GPM							
SIBM-2120	14	61	1212×108 mm	DN50	140 ×20×45cm/1set	UVT5-4120	120w×2	QT5-1183	ZUM3-800-120
SIBM-3120	35	154	1212×133 mm	DN65	140 ×24×48cm/1set	UVT5-4120	120w×3	QT5-1183	ZUM3-800-120
SIBM-4120	45	198	1212×133 mm	DN80	140 ×24×48cm/1set	UVT5-4120	120w×4	QT5-1183	ZUM3-800-120
SIBM-5120	55	242	1212×168 mm	DN80	140 ×28×50cm/1set	UVT5-4120	120w×5	QT5-1183	ZUM3-800-120
SIBM-6120	70	308	1212×168 mm	DN100	140 ×28×50cm/1set	UVT5-4120	120w×6	QT5-1183	ZUM3-800-120
SIBM-7120	80	352	1212×219 mm	DN100	140 ×33×56cm/1set	UVT5-4120	120w×7	QT5-1183	ZUM3-800-120
SIBM-8120	95	418	1212×219 mm	DN125	140 ×33×56cm/1set	UVT5-4120	120w×8	QT5-1183	ZUM3-800-120
SIBM-9120	100	440	1212×275 mm	DN125	140 ×38×62cm/1set	UVT5-4120	120w×9	QT5-1183	ZUM3-800-120
SIBM-10120	115	506	1212×275 mm	DN150	140×38×62cm/1set	UVT5-4120	120w×10	QT5-1183	ZUM3-800-120

- Chamber Material: 304SS(316LSS available on rdquest) is optional
- 4 pins or 2+2 pins Philips uv lamp as options

Secondary water supply disinfection

sterilization of whole house water

sterilization of circulating water

Spring or swimming pool

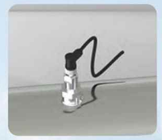
Industrial water sterilization

Tap water sterilization

MEDIUM PRESSURE UV SERIES

Integrated CFD, UV fluence field, and radical chemistry model optimized reactor design

High-grade electropolished stainless steel SS316 and Super duplex materials for corrosive environments



UV Intensity sensor: This instrument measures the intensity (W/cm2) of UV light passing through the water and arriving at the sensor.

Temperature sensor: A hardwired trip switches the system off at high temperatures, whilst a built-in thermocouple provides a temperature measurement on the control panel.

Auto-wiper: An auto-wiper can be used to clean the quartz without having to interrupt the treatment process. Wipers are used in water pre-treatment and wastewater systems where solids or scale deposits can form. Wipers are not required post-RO or demineralization.

PLC controller: Provides the user with information on the performance of the UV system and controls power to the lamps.

Municipal water

Food & Beverage

Swimming

Aquaculture

Pharmacy

Electronic semiconductor, etc

SPECIFICATION SHEET

Model	Flow	lamp power	Lamp life	Inlet/Output
SMP108 A1/2	15m³/hr	0.6kW	8000 hours	DN50(2")
SMP108 B1/2	30m³/hr	1.1kW	8000 hours	DN50(2")
SMP168 B1/2	50m³/hr	1.1kW	8000 hours	DN50(2")
SMP168 C1/3	60m³/hr	2.1kW	8000 hours	DN80(3")
SMP108 C1/4	100m³/hr	2.1kW	8000 hours	DN100(4")
SMP168 D1/4	100m³/hr	3.4kW	8000 hours	DN100(4")
SMP219 C1/4	100m³/hr	2.1kW	8000 hours	DN100(4")
SMP219 D1/6	230m³/hr	3.4kW	8000 hours	DN150(6")
SMP325 D1/8	350m³/hr	3.4kW	8000 hours	DN200(8")
SMP325 E1/8	400m³/hr	4.9kW	8000 hours	DN200(8")
SMP325 E1/10	535m³/hr	4.9kW	8000 hours	DN250(10")

UV LED water purifer

CE RoHS

TECHNICAL PARAMETERS

- Model No.:EC10
- Max flow rate: 4LPM (1GPM)
- In/outlet: 1/4" quick fittings
- Dimension: 48*108mm
- Rated power: 5w
- Luminous power: 140mW
- LED lifespan: 3 years for 3-4 people family

Scope of application

Our UV LED water purifier can be widely used on RVs, coffee machine, ice machine, water purifier, vending machine etc.

SGS

Test Report

SGS test report: NBF21-007023-01
E-coli removal rate 99.99% at
flow rate 4LPM(1GPM)

Test item(s)	Unit(s)	Test method(s)	Test result(s)		*Removal rate(s) %
			Influent spiked water	Effluent filtrated water	
Total coliforms	CFU/100mL	GB/T 5750.12-2006	6.2×10^5	<1	>99.99

ADAVANTAGES OF UV LED

- UVC LEDs have hit major milestones in both total power output and pricing.
- Savings directly dollar for dollar over mercury lamp reactors.
- Non-toxic UVC LED-based systems use simple DC power.
- Longer life of on-demand UVC LED — often lasting the full lifetime of the appliance.
- Convenient maintains, no replacement charge for consumable parts.

MERCURY UV LAMP VS UV LED

Features	Mercury UV lamp	SNOWATE UV LED
Mercury content	20-200mg	NO
Using life	1 year	3 years for 3-4 people family
On-off times	Maximum 10000 times on/off	more than 100,000 times
Preheat time	up to 5 min	instant start
Water temperature	up to 35℃	no change
Durability	Fragile glass tube	Rugged semiconductor
Power supply	110-240VAC	12VDC / 24VDC

DRINKING WATER PURIFICATION
UV DISINFECTION AT POINT OF USE

Our UV LED water purifer can be widely used on RVs, coffee machine, ice machine, water purifier,vending machine etc.

Mercury uv lamp VS UV LED

Features	Mercury UV lamp	SNOWATE UV LED
Mercury content	20-200mg	NO
Using life	1 year	Minium 5 years lifetime
On-off times	Maximum 10000 times on/off	more than 100,000 times
Preheat time	up to 5 min	instantaneous
Water temperature	up to 35℃	no change
Durability	Fragile glass tube	Rugged semiconductor
Power supply	110-24VAC	12VDC / 24VDC

TECHNICAL PARAMETERS

- Model No.:AGLED-40002
- Max flow rate: 4LPM (1GPM)
- In/outlet: 1/4" quick fittings
- Dimension: 38*129mm
- Operation voltage: 12VDC / 24VDC
- Operation current: 0.7A@12V 0.35A@24V
- Rated power: 8w
- Luminous power: 160mW
- LED lifespan: 7,000 hours

SGS test report: NBF21-007023-01
E-coli removal rate 99.99% at flow rate 2LPM(0.5GPM)

Test item(s)	Unit(s)	Test method(s)	Test result(s)		*Removal rate(s) %
			Influent spiked water	Effluent filtrated water	
Total coliforms	CFU/100mL	GB/T 5750.12-2006	6.2×10^5	<1	>99.99

ADAVANTAGES OF UV LED

- UVC LEDs have hit major milestones in both total power output and pricing.
- Savings directly dollar for dollar over mercury lamp reactors.
- Non-toxic UVC LED-based systems use simple DC power systems.
- Longer life of on-demand UVC LED reactors—often lasting the full lifetime of the appliance.
- Convenient maintains, no replacement charge for

instant starta

Long working life span

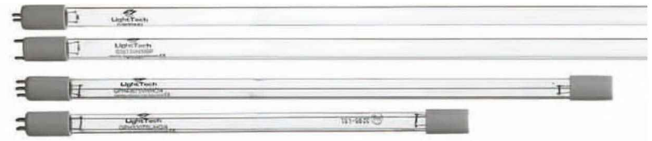
No mercury

Easy Installation

LAMP SERIES

LIGHTSOURCES UV LAMP

- Quality assurance imported from the United States
- Efficient operation with maximum germicidal effectiveness.



Model	Lamp holder	Dimension(mm)		Power (W)	Voltage (V)	Current (A)	Lifetime (H)	Match with quartz tube model
		Tube diameter	Length					
GPH150T5L	G10Q	15	150	7W	18	0.425	16000	QT5-185
GPH212T5L	G10Q	15	212	10W	25	0.425	16000	QT5-245
GPH287T5L	G10Q	15	287	14W	34	0.425	16000	QT5-322
GPH303T5L	G10Q	15	303	15W	35	0.425	16000	QT5-338
GPH357T5L	G10Q	15	357	17W	42	0.425	16000	QT5-392
GPH436T5L	G10Q	15	436	21W	51	0.425	16000	QT5-470
GPH620T5L	G10Q	15	620	29W	70	0.425	16000	QT5-655
GPH843T5L	G10Q	15	843	41W	98	0.425	16000	QT5-875
GHO303T5L	G10Q	15	303	33W	43	0.8	16000	QT5-338
GHO436T5L	G10Q	15	436	48W	60	0.8	16000	QT5-470
GHO843T5L	G10Q	15	843	87W	110	0.8	16000	QT5-875
GHO1000T5L	G10Q	15	1000	100W	130	0.8	16000	QT5-1035
GHO1148T5L	G10Q	15	1148	120W	195	0.8	16000	QT5-1183
GHO64T5L	G10Q	15	1154	155W	195	0.8	16000	QT5-1589
GPHA1554T6L	G10Q	19	1154	240W	134	1.8	16000	QT6-1589
GPHHA1554T6L	G10Q	19	1154	320W	154	2.1	16000	QT6-1589

PHILIPS UV LAMP

- Quality assurance imported from Europe
- Efficient operation with maximum germicidal effectiveness.

Model	Lamp holder	Dimension(mm)		Power (W)	Voltage (V)	Current (A)	Lifetime (H)	Match with quartz tube model
		Tube diameter	Length					
TUV 4W	G5	16	135.9	4W	25	0.165	9000	QT5-185
TUV 6W	G5	16	212.1	6W	37	0.165	9000	QT5-245
TUV 8W	G5	16	288.3	8W	47	0.17	9000	QT5-360
TUV 11W	G5	16	212.1	11W	34	0.400	9000	QT5-245
TUV 16W	G5	16	288.3	16W	33	0.425	9000	QT5-360
TUV 25W	G13	28	437.4	25W	48	0.600	9000	QT8-498
TUV 30W	G13	28	894.6	30W	102	0.370	9000	QT8-955
TUV 55W	G13	28	894.6	55W	86	0.770	9000	QT8-955
TUV11W 4PSE	G10Q	15	244.1	11W	34	0.425	9000	QT5-295
TUV 16W 4PSE	G10Q	15	320.3	16W	43	0.425	9000	QT5-360
TUV 25W 4PSE	G10Q	15	548.9	25W	55	0.425	9000	QT5-580
TUV 36T5HE 4PSE	G10Q	15	845.4	40W	14	0.425	9000	QT5-875
TUV 36T5HO 4PSE	G10Q	15	845.4	75W	23	0.8	9000	QT5-875
TUV 325WXPTHOSE	G10Q	19	1574.3	320W	160	2.0	9000	QT6-1630

- Quality assurance
- Efficient operation with maximum germicidal effectiveness.
- OEM accepted

Model	Lamp holder	Dimension(mm)		Power (W)	Voltage (V)	Current (A)	Lifetime (H)	Match with quartz tube model
		Tube diameter	Length					
UVT5-404	G10Q	15	150	4W	23	0.165	8000	QT5-185
UVT5-406	G10Q	15	212	6W	34	0.165	8000	QT5-245
UVT5-412	G10Q	15	265	12W	37	0.425	8000	QT5-300
UVT5-416	G10Q	15	330	16W	44	0.425	8000	QT5-360
UVT5-425	G10Q	15	550	25W	58	0.425	8000	QT5-580
UVT5-428	G10Q	15	550	28W	68	0.425	8000	QT5-580
UVT5-430	G10Q	15	870	30W	80	0.425	8000	QT5-900
UVT5-435	G10Q	15	910	35W	83	0.425	8000	QT5-940
UVT5-440	G10Q	15	843	40W	94	0.425	8000	QT5-875
UVT5-455	G10Q	15	910	55W	120	0.8	8000	QT5-940
UVT5-433	G10Q	15	303	33W	35	0.8	8000	QT5-338
UVT5-448	G10Q	15	436	48W	60	0.8	8000	QT5-470
UVT5-475	G10Q	15	843	75W	97	0.8	8000	QT5-875
UVT5-487	G10Q	15	843	87W	110	0.8	8000	QT5-875
UVT5-4120	G10Q	15	1148	120W	150	0.8	8000	QT5-1183
UVT5-4240	G10Q	19	1554	240W	134	1.8	8000	QT6-1589
UVT5-4320	G10Q	19	1554	320W	154	2.1	8000	QT6-1589

BALLAST SERIES

CE

Electronic ballast

- 100-120VAC or 220-240VAC 50/60Hz
- Pre-heat start
- Lamp failure protection
- Audible and visual alarm

Model	Input voltage	Output current	Input power	Lamp holder type	Match with lamp	Start method
ZAP2-170-F6 (EB-F6)	100-120VAC or 220-240VAC	170mA	4-8W	G5	TUV4W TUV6W	Pre-heat start
ZAP2-170-G6 (EB-G6)				G10Q	UVT5-404 UVT5-406	
ZAP2-425-F16 (EB-F16)	100-120VAC or 220-240VAC	425mA	10-17W	G5	TUV11W TUV16W	Pre-heat start
ZAP2-425-G16 (EB-G16)				G10Q	UVT5-404 UVT5-412 UVT5-416 GPH212T5L~GPH357T5L	
ZAP2-425-G28 (EB-G28)	100-120VAC or 220-240VAC	425mA	19-28W	G10Q	UVT5-425 UVT5-428 GPH436T5L GPH620T5L	Pre-heat start
ZAP2-425-G35 (EB-G35)	100-120VAC or 220-240VAC	425mA	30-55W	G10Q	UVT5-430 UVT5-435	Pre-heat start
ZAP2-425-G55 (EB-G55)	100-120VAC or 220-240VAC	425mA	40-55W	G10Q	UVT5-440 UVT5-455 GPH793T5L GPH843T5L	Pre-heat start
ZAP2-610-F25 (EB-F25)	100-120VAC or 220-240VAC	610mA	25W	G13	TUV25W	Pre-heat start
ZAP2-370-F30 (EB-F30)	100-120VAC or 220-240VAC	370mA	30W	G13	TUV30W	Pre-heat start
ZAP2-770-F55 (EB-F55)	100-120VAC or 220-240VAC	770mA	55-75W	G13	TUV55W	Pre-heat start
ZAP2-770-G55 (EB-G75)				G10Q	UVT5-433 UVT5-448 UVT5-475 UVT5-487 GHO436T5L~GHO843T5L	

CE

Electronic ballast

- 100-120VAC or 220-240VAC 50/60Hz
- Pre-heat start
- Lamp failure protection
- Audible and visual alarm
- With water flow control switch

Model	Input voltage	Output current	Input power	Lamp holder type	Match with lamp	Start method
ZAP2-170-F6FS (EB-F6FS)	100-120VAC or 220-240VAC	170mA	4-8W	G5	TUV4W TUV6W	Pre-heat start
ZAP2-170-G6FS (EB-G6FS)				G10Q	UVT5-404 UVT5-406	
ZAP2-425-F16FS (EB-F16FS)	100-120VAC or 220-240VAC	425mA	10-17W	G5	TUV11W TUV16W	Pre-heat start
ZAP2-425-G16FS (EB-G16FS)				G10Q	UVT5-404 UVT5-412 UVT5-416 GPH212T5L~GPH357T5L	

BALLAST SERIES

CE

Electronic ballast

- 100-120VAC or 220-240VAC 50/60Hz
- Pre-heat start
- Lamp failure protection
- Audible and visual alarm
- With lamp working time display

Model	Input voltage	Output current	Input power	Lamp holder type	Match with lamp	Start method
ZAP2-170-F6JS (EB-F6)	100-120VAC or 220-240VAC	170mA	4-8W	G5	TUV4W TUV6W	Pre-heat start
ZAP2-170-G6JS (EB-G6)				G10Q	UVT5-404 UVT5-406	
ZAP2-425-F16JS (EB-F16)	100-120VAC or 220-240VAC	425mA	10-17W	G5	TUV11W TUV16W	Pre-heat start
ZAP2-425-G16JS (EB-G16)				G10Q	UVT5-404 UVT5-412 UVT5-416 GPH212T5L~GPH357T5L	
ZAP2-425-G28JS (EB-G28)	100-120VAC or 220-240VAC	425mA	19-28W	G10Q	UVT5-425 UVT5-428 GPH436T5L GPH620T5L	Pre-heat start
ZAP2-425-G35JS (EB-G35)	100-120VAC or 220-240VAC	425mA	30-55W	G10Q	UVT5-430 UVT5-435	Pre-heat start
ZAP2-425-G55JS (EB-G55)	100-120VAC or 220-240VAC	425mA	40-55W	G10Q	UVT5-440 UVT5-455 GPH793T5L GPH843T5L	Pre-heat start
ZAP2-610-F25JS (EB-F25)	100-120VAC or 220-240VAC	610mA	25W	G13	TUV25W	Pre-heat start
ZAP2-370-F30JS (EB-F30)	100-120VAC or 220-240VAC	370mA	30W	G13	TUV30W	Pre-heat start
ZAP2-770-F55JS (EB-F55)	100-120VAC or 220-240VAC	770mA	55-75W	G13	TUV55W	Pre-heat start
ZAP2-770-G55JS (EB-G75)				G10Q	UVT5-433 UVT5-448 UVT5-475 UVT5-487 GHO436T5L~GHO843T5L	

CE

Electronic ballast

- 100-120VAC or 220-240VAC 50/60Hz
- Pre-heat start
- Lamp failure protection
- Audible and visual alarm
- With water flow control switch with delay shutdown function

Model	Input voltage	Output current	Input power	Lamp holder type	Match with lamp	Start method
ZAP2-170-F6YS (EB-F6YS)	100-120VAC or 220-240VAC	170mA	4-8W	G5	TUV4W TUV6W	Pre-heat start
ZAP2-170-G6YS (EB-G6YS)				G10Q	UVT5-404 UVT5-406	
ZAP2-425-F16YS (EB-F16YS)	100-120VAC or 220-240VAC	425mA	10-17W	G5	TUV11W TUV16W	Pre-heat start
ZAP2-425-G16YS (EB-G16YS)				G10Q	UVT5-404 UVT5-412 UVT5-416 GPH212T5L~GPH357T5L	

BALLAST SERIES

Electronic ballast

- 100-240VAC 50/60Hz
- 365 days countdown or 0-9999 hours
- Pre-heat start
- Lamp failure protection
- Audible and visual alarm
- Signal output optional

Model	Input voltage	Output current	Input power	Lamp holder type	Match with lamp	Start method
ZUM1-425-55 (EB-G3042)	100-240VAC	425mA	10-55W	G10Q	UVT5-410 ~ UVT5-455 GPH212T5L ~ GPH843T5L	Pre-heat start
ZUM1-800-120 (EB-G45105)	100-240VAC	800mA	33-120W	G10Q	UVT5-433 UVT5-448 GHO436T5L~GHO893T5L	Pre-heat start
ZUM1-1200-127 (EB-G42150)	100-240VAC	1.2A	42-127W	G10Q	GPHA357T5L~GPHA1000T5L	Pre-heat start

Electronic ballast

- 100-240VAC 50/60Hz
- 365 days countdown or 0-9999 hours
- Pre-heat start
- Lamp failure protection
- Audible and visual alarm
- Signal output optional
- UV intensity monitoring

Model	Input voltage	Output current	Input power	Lamp holder type	Match with lamp	Start method
ZUM1A-425-55	100-240VAC	425mA	10-55W	G10Q	UVT5-410 ~ UVT5-455 GPH212T5L ~ GPH843T5L	Pre-heat start
ZUM1A-800-120	100-240VAC	800mA	33-120W	G10Q	UVT5-433 UVT5-448 GHO436T5L~GHO893T5L	Pre-heat start
ZUM1A-1200-127	100-240VAC	1.2A	42-127W	G10Q	GPHA357T5L~ GPHA1000T5L	Pre-heat start

BALLAST SERIES

Electronic ballast

- 100-120VAC or 220-240VAC 50/60Hz
- Pre-heat start
- Lamp failure protection
- Audible and visual alarm

Model	Input voltage	Output current	Input power	Lamp holder type	Match with lamp	Start method
ZAP4-425-55	100-120VAC or 220-240VAC	425mA	10-16W	G5	TUV11W TUV16W	Pre-heat start
			10-55W	G10Q	UVT5-410 ~ UVT5-455 GPH212T5L ~ GPH843T5L	
ZUP4-425-55	100-240VAC	425mA	10-55W	G10Q	UVT5-410~ UVT5-455	Pre-heat
ZUP4-800-87	100-240VAC	800mA	33-87W	G10Q	UVT5-433~ UVT5-487	Start

Electronic ballast

- 220-240VAC 50/60Hz
- Pre-heat start
- Lamp failure protection
- Audible and visual alarm

Model	Input voltage	Output current	Input power	Lamp holder type	Match with lamp	Start method
ZAP7-170-F6	220-240VAC	170mA	4-6W	G5	TUV4W TUV6W	Pre-heat start
ZAP7-170-G6				G10Q	UVT5-404 UVT5-406	
ZAP7-425-F28	220-240VAC	425mA	10-28W	G5	TUV11W TUV16W	Pre-heat start
ZAP7-425-G28				G10Q	UVT5-412 UVT5-416 UVT5-425 GPH212T5L~GPH357T5L GPH436T5L	
ZAP7-425-F55	220-240VAC	425mA	30-55W	G13	TUV30W	Pre-heat start
ZAP7-425-G55				G10Q	UVT5-440 UVT5-455 GPH793T5L GPH843T5L	

Electronic ballast

- 100-240VAC 50/60Hz
- Pre-heat start
- Lamp failure protection
- 5V voltage signal output
- Relay signal output

Model	Input voltage	Output current	Input power	Lamp holder type	Match with lamp	Start method
ZUM3-425-55	100-240VAC	425mA	10-55W	Terminals	UVT5-410 ~ UVT5-455 GPH212T5L ~ GPH843T5L	Pre-heat start
ZUM3-800-120	100-240VAC	800mA	33-120W	Terminals	UVT5-433 UVT5-448 GHO436T5L~GHO893T5L	Pre-heat start
ZUM3-1200-127	100-240VAC	1.2A	42-127W	Terminals	GPHA357T5L~GPHA1000T5L	Pre-heat start

Electronic Ballast

- 100–120 or 220–240 V AC, 50/60 Hz
- With water flow switch, delay-off function
- Zigbee IoT remote start-up and monitoring
- Program Pre-heat start
- Lamp abnormal protection, sound, and light alarm

Model	Input Voltage	Output Current	Input Power	Lamp Holder Type	Applicable Lamps	Start-Up Model
ZAP10-425-55	220–240 V AC	425 mA	10–55 W	G10Q	UVT5-410 – UVT5-455	Pre-heat start
ZAP10-800-87	220–240 V AC	800 mA	33–87 W	G10Q	UVT5-433 – UVT5-487	Pre-heat start
ZLP10-425-55	100–120 V AC	425 mA	10–55 W	G10Q	UVT5-410 – UVT5-455	Pre-heat start
ZLP10-800-87	100–120 V AC	800 mA	33–87 W	G10Q	UVT5-433 – UVT5-487	Pre-heat start

Electronic Ballast

- 100–240 V AC, 50/60 Hz full voltage input
- With water flow switch, delay-off function
- Program Pre-heat start
- Lamp abnormal protection, sound, and light alarm
- Fully IP67 waterproof

Model	Input Voltage	Output Current	Input Power	Lamp Holder Type	Applicable Lamps	Start-Up Model
ZUP13-425-55	100–240 V AC	425 mA	10–55 W	G10Q	UVT5-410 – UVT5-455	Pre-heat start
ZUP13-800-87	100–240 V AC	800 mA	33–87 W	G10Q	UVT5-433 – UVT5-487	Pre-heat start

Electronic Ballast

- 100–240 V AC, 50/60 Hz full voltage input
- TFT LCD display
- UV intensity / water temperature / UV service life monitoring
- Program Pre-heat start
- Lamp abnormal protection, sound, and light alarm

Model	Input Voltage	Output Current	Input Power	Lamp Holder Type	Applicable Lamps	Start-Up Model
ZUP11-425-55	100–240 V AC	425 mA	10–55 W	G10Q	UVT5-410 – UVT5-455	Pre-heat start
ZUP11-800-120	100–240 V AC	800 mA	33–120 W	G10Q	UVT5-433 – UVT5-4120	Pre-heat start

Ballast Series

Electronic Ballast

- 24 V DC extra low safety voltage input
- Instant start without delay
- Drive cold cathode UV lamps

Model	Input Voltage	Output Current	Input Power	Lamp Holder Type	Applicable Lamps	Start-Up Model
ZD24P6-10-6	24 V DC	10 mA	4–6 W	VH3.96-3P	UVU2-204 – UVU2-206	Instant

Electronic Ballast

- 100–120 or 220–240 V AC, 50/60 Hz
- Pull-out design for easy installation and maintenance
- External work indicator
- Program warm-up start
- Abnormal lamp protection

Model	Input Voltage	Output Current	Input Power	Lamp Holder Type	Applicable Lamps	Start-Up Model
ZAP3-425-55	220–240 V AC	425 mA	10–55 W	KF2EDGV	UVT5-410 – UVT5-455	Pre-heat start
ZAP3-800-87	220–240 V AC	800 mA	33–87 W	KF2EDGV	UVT5-433 – UVT5-487	Pre-heat start
ZLP3-425-55	100–120 V AC	425 mA	10–55 W	KF2EDGV	UVT5-410 – UVT5-455	Pre-heat start
ZLP3-800-87	100–120 V AC	800 mA	33–87 W	KF2EDGV	UVT5-433 – UVT5-487	Pre-heat start

LENGTHENED NUT
- Aluminum or stainless steel material
- Connect with water-proof lamp holder

OPEN NUT
- Aluminum or stainless steel material

HEX NUT
- Aluminum material
- Plated by chrome,easy tightening

CLOSED NUT
- Aluminum or stainless steel material

O-RING
- Silcone material, safe food-grade

O-RING
- FKM material, FDA approved

BRACKET
- Plastic material
- Economical maintenance
- Flexible assembly

BRACKET
- 304 SS or 316L SS material
- Rust resistance
- Solid installation

BRACKET
- Aluminum material
- Economical maintenance
- High precision processing

RUBBER COVERED CLIP (63.5)*
- Plastic material
- Soft rubber damping with buckle design

ALUMINUM CLAMP (89) *
- Aluminium material
- Extruded for a refined appearance
- Flexible assembly, and reliable installation

MOVABLE CLAMP *
- SUS304 material
- Flexible assembly, and welding free

4-CORE OUTPUT CABLE
- Optional G10Q or G5 or G13 lamp holder

HIGH TEMPERATURE WIRE
- Telfon material

POWER CABLE
- Plug optional