UV WATER PURIFIER AND STERILIZER

Snowate

Hengshui Snowate Environmental Technology Co., Ltd.

2025

EDITION FOR
SNOWATE CATALOG


www.snowate.com

CE RoHS SGS c(UL)us LISTED TÜVRheinland Precisely Right. BUREAU VERITAS ISO 9001 CQC Water Quality ASSOCIATION NSF

CONTENT

WHY SNOWATE?

As a professional supplier of UV water sterilizer, SNOWATE has been committed to providing good quality and cost-effective UV systems. SNOWATE UV disinfection has been exported more than 82 countries.

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.

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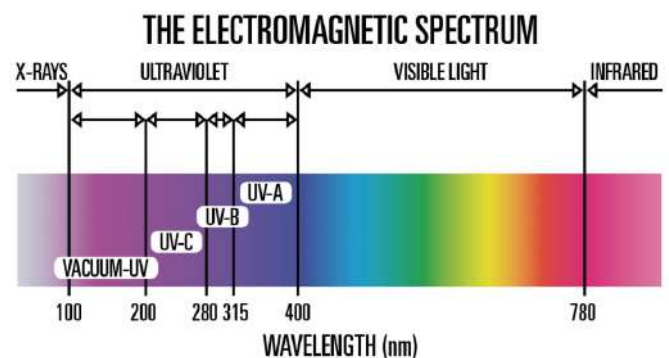
There are two mainstream UVC lamp technologies used in Industrial and Municipal applications:

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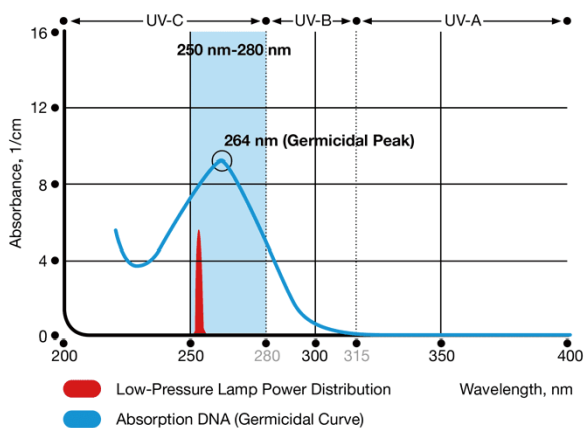
Medium Pressure lamps offer a polychromatic output across a wide spectrum. This can be useful to match the sensitivity of a target organism, but they have a lower energy efficiency (~15%). Conversely they are high powered (1kw to 24KW) and short which means you need less lamps in a smaller reactor.
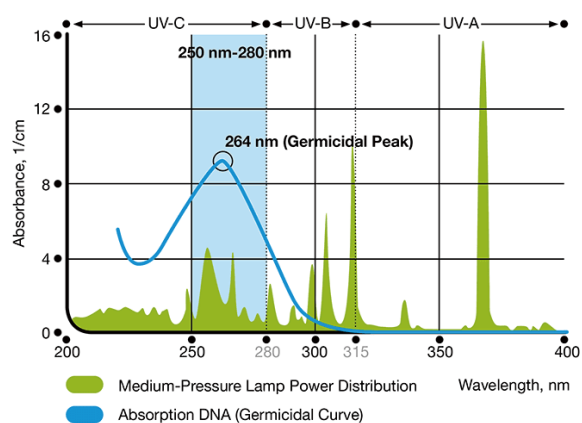
BENEFITS OF
USING LOW PRESSURE OR MEDIUM PRESSURE LAMPS

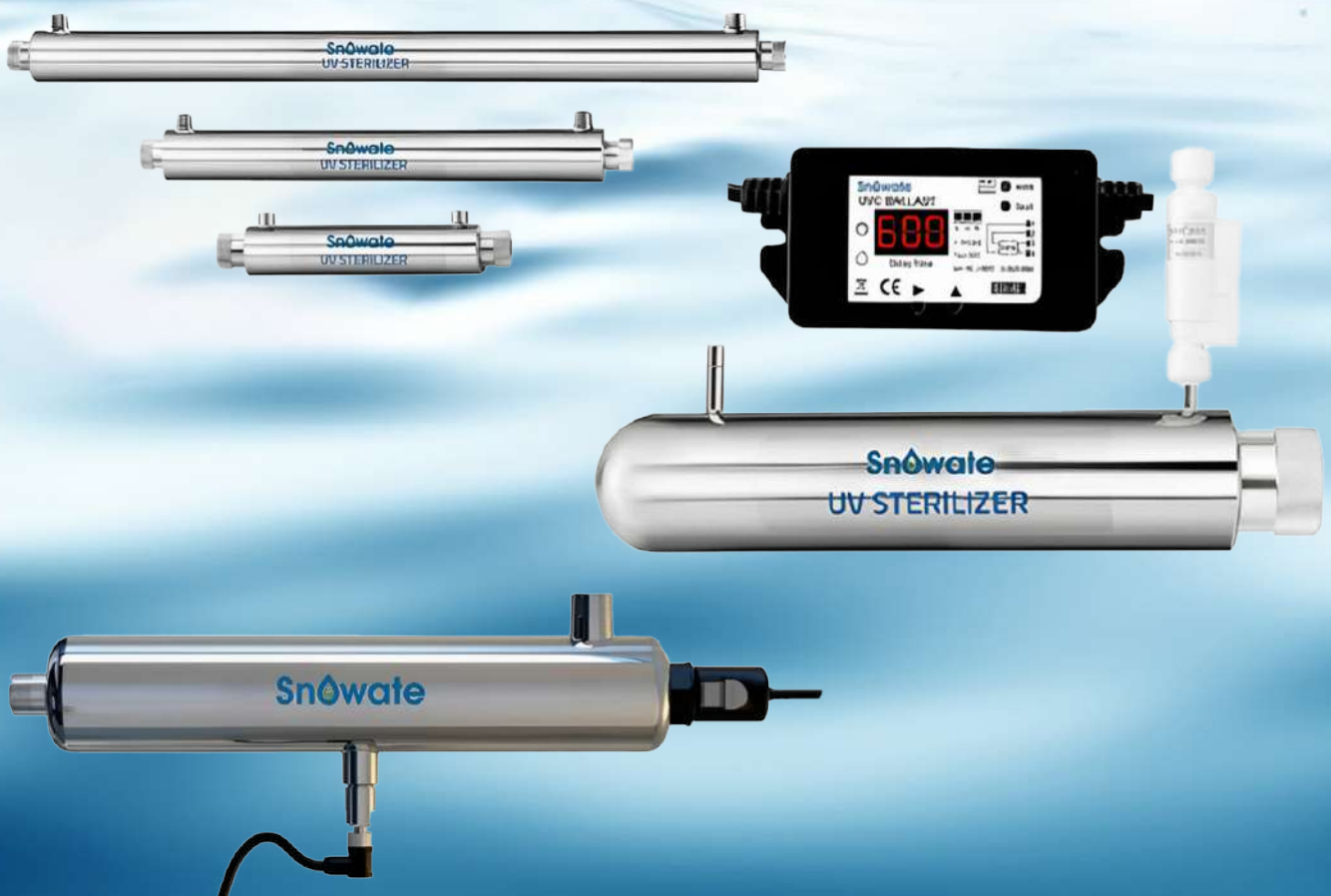|		Low Pressure	Medium Pressure
Low power use	Low pressure lamps are more efficient, but are lower powered	✓	
Efficient at higher flow rates	Medium pressure lamps run at a much higher power density to low pressure lamps so one medium pressure lamp can treat a much higher flow than a single low pressure 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.

Household UV Water Sterilizer

Household UV water sterilizers feature a compact design and easy operation, making them ideal for use in various household settings, such as bedrooms, living rooms, kitchens and offices, etc. Simply connect the water source to the sterilizer, and when the device is activated, the UV radiation will quickly destroy the genetic material of microorganisms in the water, effectively purifying the water quality.

By using a household UV water sterilizer, you can easily improve the hygiene of your home water supply, whether it is drinking water, cooking water or washing water. Household UV water sterilizer can quickly and effectively eliminate harmful microorganisms in the water, providing you with safe and reliable drinking water and household water.

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 1.04 MPa 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 0.8 MPa (116 psi)
- Ambient water temperature 2–40 °C (36–104 °F)
- Iron < 0.3 ppm (0.3 mg/L)
- Hardness < 7 gpg (120 mg/L)
- Turbidity < 1 NTU
- UV transmittance > 75%
- UV dose ≥ 30 mJ/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							
SSE-004	0.07	0.3	200 × 50.8 mm	1/4" female	47 × 39 × 51 / 15 sets	UVT5-404	4 W	QT5-185	EB-G6
SSE-006	0.1	0.5	260 × 50.8 mm	1/4" female	47 × 39 × 51 / 15 sets	UVT5-406	6 W	QT5-245	EB-G6
SSE-012	0.2	1	315 × 50.8 mm	1/4" female	52.5 × 39 × 52 / 15 sets	UVT5-412	12 W	QT5-300	EB-G16
SSE-016	0.4	2	375 × 63.5 mm	1/2" male	57 × 40 × 52 / 15 sets	UVT5-416	16 W	QT5-360	EB-G16
SSE-025	1.4	6	595 × 63.5 mm	1/2" male	79.5 × 28 × 41.5 / 8 sets	UVT5-425	25 W	QT5-580	EB-G28
SSE-030	1.8	8	915 × 63.5 mm	3/4" male	119 × 28 × 41.5 / 8 sets	UVT5-430	30 W	QT5-900	EB-G35
SSE-035	2.0	9	955 × 63.5 mm	3/4" male	119 × 28 × 41.5 / 8 sets	UVT5-435	35 W	QT5-940	EB-G35
SSE-040	2.3	10	890 × 63.5 mm	3/4" male	112.5 × 28 × 41.5 / 8 sets	UVT5-440	40 W	QT5-875	EB-G55
SSE-055	2.7	12	955 × 63.5 mm	3/4" male	119 × 28 × 41.5 / 8 sets	UVT5-455	55 W	QT5-940	EB-G55

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

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110V/220V 50/60Hz

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- 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 1.04 MPa 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 0.8 MPa (116 psi)
- Ambient water temperature 2–40 °C (36–104 °F)
- Iron < 0.3 ppm (0.3 mg/L)
- Hardness < 7 gpg (120 mg/L)
- Turbidity < 1 NTU
- UV transmittance > 75%
- UV dose ≥ 30 mJ/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 × 50.8 mm	1/4" female	47 × 39 × 51 / 15 sets	UVT5-404	4 W	QT5-185	EB-G6
SDE-006	0.1	0.5	255 × 50.8 mm	1/4" female	47 × 39 × 51 / 15 sets	UVT5-406	6 W	QT5-245	EB-G6
SDE-012	0.2	1	310 × 50.8 mm	1/4" female	52.5 × 39 × 52 /15 sets	UVT5-412	12 W	QT5-300	EB-G16
SDE-016	0.4	2	370 × 63.5 mm	1/2" male	57 × 40 × 52 / 15 sets	UVT5-416	16 W	QT5-360	EB-G16
SDE-025	1.4	6	590 × 63.5 mm	1/2" male	79.5 × 28 × 41.5 / 8 sets	UVT5-425	25 W	QT5-580	EB-G28
SDE-030	1.8	8	910 × 63.5 mm	3/4" male	119 × 28 × 41.5 / 8 sets	UVT5-430	30 W	QT5-900	EB-G35
SDE-035	2.0	9	950 × 63.5 mm	3/4" male	119 × 28 × 41.5 / 8 sets	UVT5-435	35 W	QT5-940	EB-G35
SDE-040	2.3	10	885 × 63.5 mm	3/4" male	112.5 × 28 × 41.5 / 8 sets	UVT5-440	40 W	QT5-875	EB-G55
SDE-055	2.7	12	950 × 63.5 mm	3/4" male	119 × 28 × 41.5 / 8 sets	UVT5-455	55 W	QT5-940	EB-G55

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

Voltage
110V/220V 50/60Hz

This water flow sensor has a unique design and good waterproof performance.

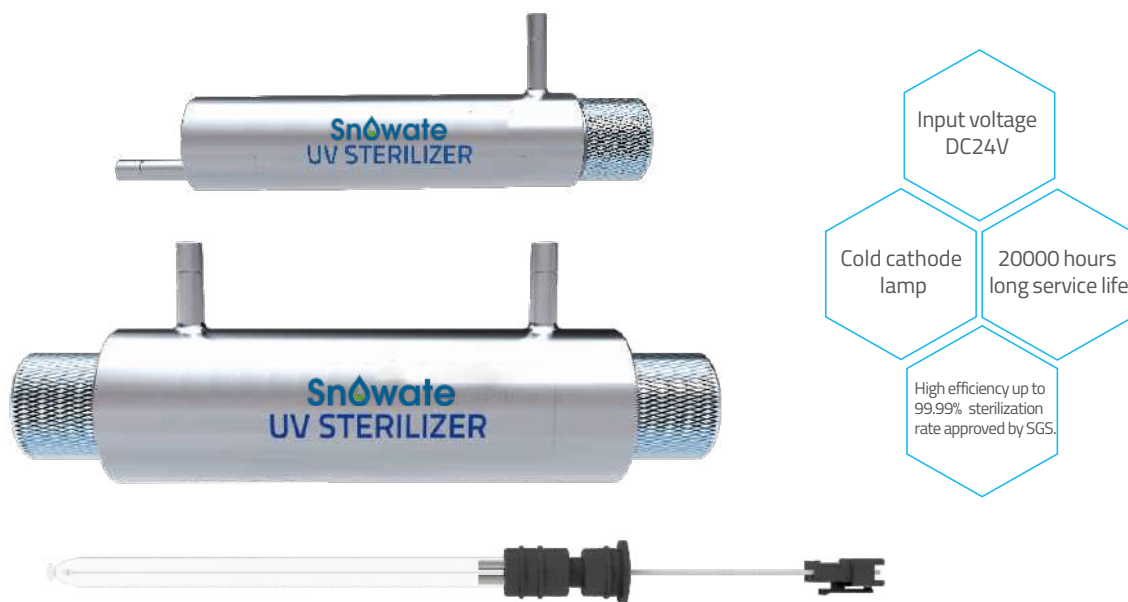Easy installation

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 20,000 hrs
- 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 1.04 MPa 100,000 times water hammer test

WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8 MPa (116 psi)
- Ambient water temperature 2–40 °C (36–104 °F)
- Water flow rate > 5 mL/sec, lamp working, settle delay shutdown 0–999 seconds
- Iron < 0.3 ppm (0.3 mg/L)
- Hardness < 7 gpg (120 mg/L)
- Turbidity < 1 NTU
- UV transmittance > 75%
- UV dose ≥ 30 mJ/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
	m³/hr	GPM								
SSE-004YS	0.07	0.3	200 × 50.8 mm	1/4" quick-fitting	FS-7	47 × 39 × 51 / 15 sets	UVT5-404	4 W	QT5-185	EB-G6YS
SSE-006YS	0.1	0.5	260 × 50.8 mm	1/4" quick-fitting	FS-7	47 × 39 × 51 / 15 sets	UVT5-406	6 W	QT5-245	EB-G6YS
SSE-012YS	0.2	1	315 × 50.8 mm	1/4" quick-fitting	FS-7	52.5 × 39 × 52 / 15 sets	UVT5-412	12 W	QT5-300	EB-G16YS
SSE-016YS	0.4	2	375 × 63.5 mm	3/8" quick-fitting	FS-2	57 × 40 × 52 / 15 sets	UVT5-416	16 W	QT5-360	EB-G16YS
SSE-025YS	1.4	6	595 × 63.5 mm	1/2" male	HT-60	79.5 × 28 × 41.5 / 8 sets	UVT5-425	25 W	QT5-580	ZUP13-425-55
SSE-030YS	1.8	8	915 × 63.5 mm	3/4" male	HT-120	119 × 28 × 41.5 / 8 sets	UVT5-430	30 W	QT5-900	ZUP13-425-55
SSE-035YS	2.0	9	955 × 63.5 mm	3/4" male	HT-120	119 × 28 × 41.5 / 8 sets	UVT5-435	35 W	QT5-940	ZUP13-425-55
SSE-040YS	2.3	10	890 × 63.5 mm	3/4" male	HT-120	112.5 × 28 × 41.5 / 8 sets	UVT5-440	40 W	QT5-875	ZUP13-425-55
SSE-055YS	2.7	12	955 × 63.5 mm	3/4" male	HT-120	119 × 28 × 41.5 / 8 sets	UVT5-455	55 W	QT5-940	ZUP13-425-55

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

Snowate

Input voltage
DC24V

Cold cathode lamp

20000 hours long service life

High efficiency up to 99.99% sterilization rate approved by SGS.

WATER QUALITY REQUIREMENT

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

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 1.04 MPa 100,000 times water hammer test

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							
SCC-004A	0.07	0.3	160 × 30 mm	1/4" quick-fitting	45 × 29.5 × 29 /12 sets	UVU2-204	4 W	QT2-115	ZD24P9-10-6
SCC-004B	0.07	0.3	125 × 38 mm	1/4" quick-fitting	45 × 29.5 × 29 / 12 sets	UVU2-204	4 W	QT2-115	ZD24P9-10-6
SCC-006	0.1	0.5	170 × 38 mm	1/4" quick-fitting	45 × 29.5 × 29 / 12 sets	UVU2-206	6 W	QT2-157	ZD24P9-10-6

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

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 1.04 MPa 100,000 times water hammer test
- Features 1/2" female & 3/4" male thread for compatible connections

WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8 MPa (116 psi)
- Ambient water temperature 2–40 °C (36–104 °F)
- Iron < 0.3 ppm (0.3 mg/L)
- Hardness < 7 gpg (120 mg/L)
- Turbidity < 1 NTU
- UV transmittance > 75%
- UV dose ≥ 30 mJ/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							
ST08-T516	0.68	3	410 × 63.5 mm	1/2'' female & 3/4'' male	79.5 × 28 × 43 / 8sets	TUV16W4PSE	16 W	QT5-360	ZUM1-425-55
ST08-T525	1.6	7	640 × 63.5 mm	1/2'' female & 3/4'' male	94 × 28 × 42 / 8sets	TUV25W4PSE	25 W	QT5-580	ZUM1-425-55
ST08-T540	2.73	12	938 × 63.5 mm	1/2'' female & 3/4'' male	129 × 28 × 43 / 8sets	TUV40W4PSE	40 W	QT5-875	ZUM1-425-55
ST08-T575	4.54	20	938 × 63.5 mm	1/2'' female & 3/4'' male	129 × 28 × 43 / 8sets	TUV75W4PSE	75 W	QT5-875	ZUM1-800-120

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

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.
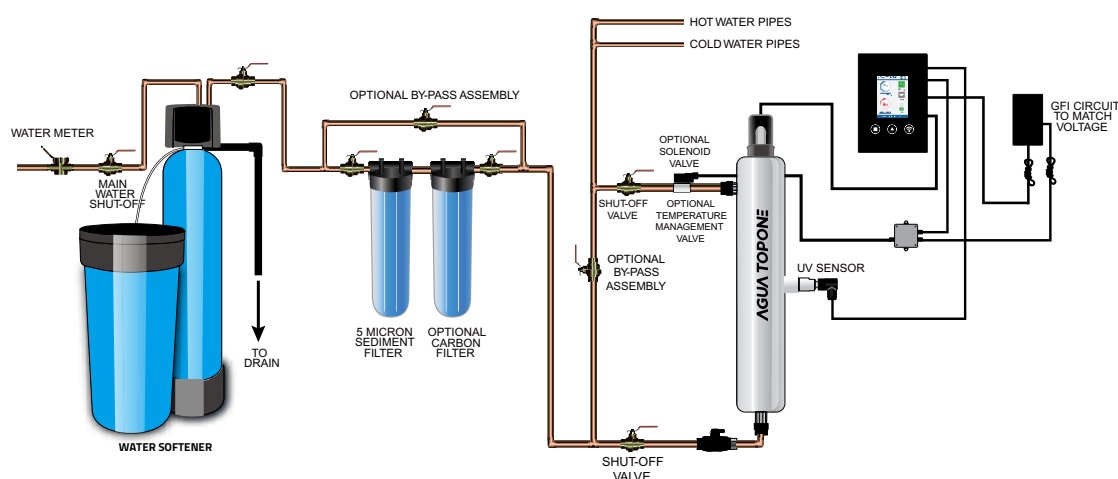
Features of SAG UV water disinfection systems

- 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		SAG-048	SAG-087	SAG-120
FLOW RATES (@ 95% UVT)	US public health (16 mJ/cm^2)	22.5 GPM	41.25 GPM	67.5 GPM
	ATO standard (30 mJ/cm2)	12 GPM	22 GPM	36 GPM
DIMENSIONS	Chamber	89 × 580 mm	89 × 985 mm	89 × 1293 mm
	Controller	200 × 160 × 65 mm	200 × 160 × 65 mm	200 × 160 × 65 mm
	Inlet/Outlet Port Size	3/4" female & 1" male	3/4" female & 1" male	3/4" female & 1" male
ELECTRICAL	Voltage	100−240 V / 50/60 Hz	100−240 V / 50/60 Hz	100−240 V / 50/60 Hz
	Power Consumption	53 W	95 W	132 W
	Maximum Operating Pressure	125 PSI (8.6 bar)	125 PSI (8.6 bar)	125 PSI (8.6 bar)
	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		SAG-048	SAG-087	SAG-120
PECIFICATIONS	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 (120 mg/L)	< 0.3 mg/L	< 0.1 mg/L

SAG-48 SAG-087 SAG-120

SAG-48 —— SAG-087 —— SAG-120 ——

CE RoHS
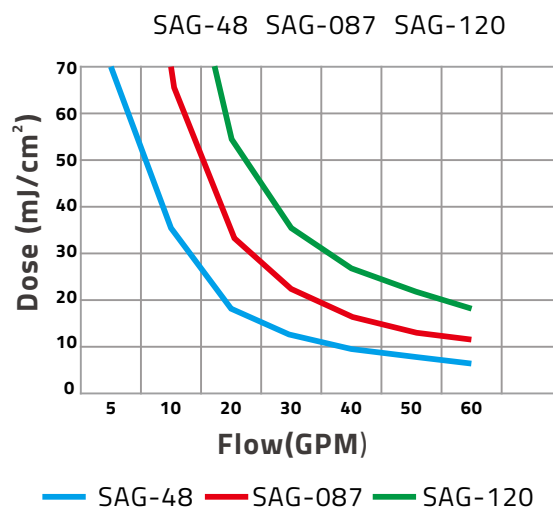
TECHNICAL PARAMETERS

- Model No.: EC10
- Max. flow rate: 4 LPM (1 GPM)
- In/Outlet: 1/4" quick fittings
- Dimension: 48 × 108 mm
- Rated power: 5 W
- Luminous power: 140 mW
- 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: NBF21-007023-01 E-coil removal rate 99.9% at flow rate 4 LPM (1 GPM)

Test Item(s)	Unit(s)	Test Method(s)	Test Result(s)		*Removal Rate(s) %
			Influent Spiked Water	Effluent Filtrated Water	
Total coliforms	CFU/100 ml	GB/T 5750.12-2006	6.2×10^5	< 1	> 99.99

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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.

Instant start

Long working life span

No mercury

Easy Installation

MERCURY UV LAMP VS UV LED

Features	Mercury UV lamp	SNOWATE UV LED
Mercury content	20–200 mg	NO
Using life	1 year	3 years for 3–4 people family
On-off times	Maximum 10,000 times on/off	More than 100,000 times
Preheat time	Up to 5 min	Instant start
Water temperature	Up to 35 °C	No change
Durability	Fragile glass tube	Rugged semiconductor
Power supply	110–240 VAC	120 VDC /24 VDC

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.

Built-in UV LED chip

UV LED Water purifier

Mercury uv lamp VS UV LED		
Features	**Mercury UV lamp**	**SNOWATE UV LED**
Mercury content	20–200 mg	NO
Using life	1 year	Minimum 5 years lifetime
On-off times	Maximum 10,000 times on/off	More than 100,000 times
Preheat time	Up to 5 min	Instantaneous
Water temperature	Up to 35 °C	No change
Durability	Fragile glass tube	Rugged semiconductor
Power supply	110–240 VAC	120 VDC /24 VDC

TECHNICAL PARAMETERS

- Model No.: AGLED-40002
- Max. flow rate: 4 LPM (1 GPM)
- In/Outlet: 1/4" quick fittings
- Dimension: 38 × 129 mm
- Operation voltage: 12 V DC / 24 V DC
- Operation current: 0.7A@12 V 0.35A @24 V
- Rated power: 8 W
- Luminous power: 160 mW
- 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/100 ml	GB/T 5750.12-2006	6.2×10^5	< 1	> 99.99

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instant starta

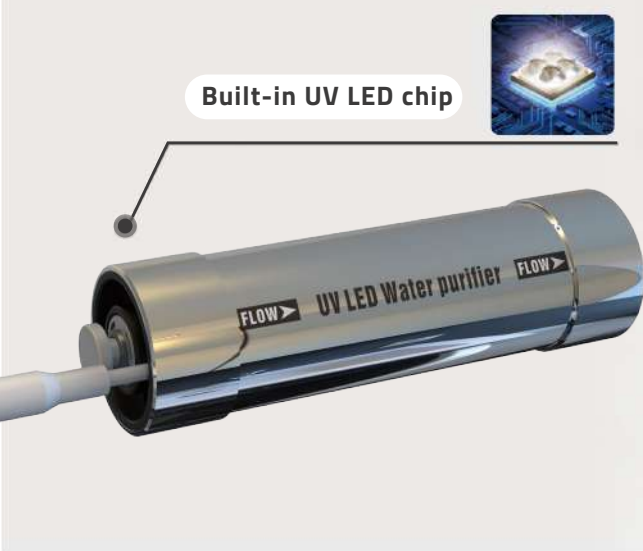Long working life span

No mercury

Easy Installation

Commercial UV Water Sterilizer

Commercial UV water sterilizers are devices that utilize ultraviolet light to disinfect water. They are valuable tools in various industries, including healthcare, food and beverage, pharmaceuticals, and water treatment.

In the healthcare sector, commercial UV water sterilizers are used to purify and disinfect water used in operating rooms, patient wards, laboratories, and other medical facilities. They can quickly and reliably deactivate bacteria, viruses, and other pathogens in water, providing a safe and sterile water source for patients and medical staff.

In the food and beverage industry, commercial UV water sterilizers are used to treat and purify water sources used in drinking water and beverage production. They effectively eliminate microbial contamination in water, ensuring that products meet hygiene and quality standards and protecting consumer health.

In the pharmaceutical sector, commercial UV water sterilizers are used to prepare purified water and water for injection. By eliminating bacteria and viruses in water, they ensure the purity and consistency of water quality during the pharmaceutical manufacturing process, meeting stringent drug production standards.

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Voltage
110V/220V 50/60Hz

Alarm
Audible and visual

Indicator
Lamp operation and failure

Optional digital display ballast

FEATURES

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- 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 1.04 MPa 100,000 times water hammer test

WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8 MPa (116 psi)
- Ambient water temperature 2–40 °C (36–104 °F)
- Iron < 0.3 ppm (0.3 mg/L)
- Hardness < 7 gpg (120 mg/L)
- Turbidity < 1 NTU
- UV transmittance > 75%
- UV dose ≥ 30 mJ/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
	m³/hr	GPM							
SDS-110	5.4	24	950 × 108 mm	1" male	102.5 × 22.4 × 42 / 1 set	UVT5-455	55 W × 2	QT5-940	EB-G55
SDS-165	8.1	36	950 × 133 mm	1.5" male	102.5 × 24.8 × 45 / 1 set	UVT5-455	55 W × 3	QT5-940	EB-G55
SDS-220	10.9	48	950 × 133 mm	1.5" male	102.5 × 24.8 × 45 / 1 set	UVT5-455	55 W × 4	QT5-940	EB-G55

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

SDB SERIES

Snowate

Voltage
110V/220V 50/60Hz

Alarm
Audible and visual

Indicator
Lamp operation and failure

00:00 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 1.04 MPa 100,000 times water hammer test

WATER QUALITY REQUIREMENT

- Maximum operating pressure 0.8 MPa (116 psi)
- Ambient water temperature 2–40 °C (36–104 °F)
- Iron < 0.3 ppm (0.3 mg/L)
- Hardness < 7 gpg (120 mg/L)
- Turbidity < 1 NTU
- UV transmittance > 75%
- UV dose ≥ 30 mJ/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
	m³/hr	GPM							
SDB-110	5.4	24	950 × 108 mm	1" male	102.5 × 22.4 × 42 / 1 set	UVT5-455	55 W × 2	QT5-940	ZAP3-425-55
SDB-165	8.1	36	950 × 133 mm	1.5" male	102.5 × 24.8 × 45 / 1 set	UVT5-455	55 W × 3	QT5-940	ZAP3-425-55
SDB-220	10.9	48	950 × 133 mm	1.5" male	102.5 × 24.8 × 45 / 1 set	UVT5-455	55 W × 4	QT5-940	ZAP3-425-55
SDB-330	16.3	72	950 × 168 mm	2" male	107.0 × 35.0 × 60 / 1 set	UVT5-455	55 W × 6	QT5-940	ZAP3-425-55
SDB-440	21.8	96	950 × 219 mm	3" male	107.0 × 40.0 × 70 / 1 set	UVT5-455	55 W × 8	QT5-940	ZAP3-425-55
SDB-550	27.2	120	950 × 275 mm	4" male	109.0 × 48.0 × 80 / 1 set	UVT5-455	55 W × 10	QT5-940	ZAP3-425-55
SDB-660	32.7	144	950 × 275 mm	4" male	109.0 × 48.0 × 80 / 1 set	UVT5-455	55 W × 12	QT5-940	ZAP3-425-55

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

Industrial UV Water Sterilizers

Industrial UV water sterilizers are constructed using high-quality stainless steel materials, capable of resisting corrosion from chemicals, humidity, and high temperatures typically encountered in industrial environments. This ensures the long-term stable operation of the equipment under harsh conditions. The system is equipped with an electrical control box for operating and monitoring the device. The control box features an advanced control system and human-machine interface for real-time monitoring of the sterilizer.

Voltage
110V/220V 50/60Hz

Alarm
Audible and visual

Indicator
Lamp operation and failure

00:00 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 0.8 MPa (116 psi)
- Ambient water temperature 2–40 °C (36–104 °F)
- Iron < 0.3 ppm (0.3 mg/L)
- Hardness < 7 gpg (120 mg/L)
- Turbidity < 1 NTU
- UV transmittance > 75%
- UV dose ≥ 30 mJ/cm^2

Model	Flow Rate		Reactor Dimension	In/Outlet Port BSP/NPT	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	120 W × 2	QT5-1183	ZUM3-800-120
SB10-H03	27	120	1212 × 168 mm	DN80(3"')	GHO1148T5L/4P	120 W × 3	QT5-1183	ZUM3-800-120
SB10-H04	35	155	1212 × 168 mm	DN100(4")	GHO1148T5L/4P	120 W × 4	QT5-1183	ZUM3-800-120
SB10-H05	58	255	1212 × 219 mm	DN100(4")	GHO1148T5L/4P	120 W × 5	QT5-1183	ZUM3-800-120
SB10-H06	69	305	1212 × 219 mm	DN125(5")	GHO1148T5L/4P	120 W × 6	QT5-1183	ZUM3-800-120
SB10-H07	80	355	1212 × 219 mm	DN125(5")	GHO1148T5L/4P	120 W × 7	QT5-1183	ZUM3-800-120
SB10-HA3	105	465	1618 × 219 mm	DN150(6")	GPHHA1554T6L	320 W × 3	QT6-1589	ZUM4-2100-320
SB10-HA4	137	605	1618 × 219 mm	DN150(6")	GPHHA1554T6L	320 W × 4	QT6-1589	ZUM4-2100-320
SB10-HA5	168	740	1618 × 219 mm	DN150(6")	GPHHA1554T6L	320 W × 5	QT6-1589	ZUM4-2100-320
SB10-HA6	198	870	1618 × 219 mm	DN150(6")	GPHHA1554T6L	320 W × 6	QT6-1589	ZUM4-2100-320
SB10-HA7	298	1315	1618 × 274 mm	DN200(8")	GPHHA1554T6L	320 W × 7	QT6-1589	ZUM4-2100-320
SB10-HA8	337	1485	1618 × 274 mm	DN200(8")	GPHHA1554T6L	320 W × 8	QT6-1589	ZUM4-2100-320
SB10-HA9	459	2021	1618 × 325 mm	DN250(10")	GPHHA1554T6L	320 W × 9	QT6-1589	ZUM4-2100-320
SB10-HA10	505	2225	1618 × 325 mm	DN250(10")	GPHHA1554T6L	320 W × 10	QT6-1589	ZUM4-2100-320

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

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 BSP/NPT	UV Lamp Code	Lamp Power	Quartz Tube Code	Ballast Code
	m³/hr	GPM						
SA-3120	35	155	1420 × 168 mm	DN80(3")	GHO1148T5L/4P	120 W × 3	QT6-1183	ZUM3-800-120
SA-4120	45	200	1420 × 219 mm	DN100(4")	GHO1148T5L/4P	120 W × 4	QT6-1183	ZUM3-800-120
SA-5120	55	245	1420 × 219 mm	DN125(5")	GHO1148T5L/4P	120 W × 5	QT6-1183	ZUM3-800-120
SA-6120	70	310	1420 × 274 mm	DN150(6")	GHO1148T5L/4P	120 W × 6	QT6-1183	ZUM3-800-120
SA-7120	80	355	1420 × 274 mm	DN150(6")	GHO1148T5L/4P	120 W × 7	QT6-1183	ZUM3-800-120
SA-8120	95	420	1420 × 274 mm	DN200(8")	GHO1148T5L/4P	120 W × 8	QT6-1183	ZUM3-800-120
SA-9120	120	530	1420 × 325 mm	DN200(8")	GHO1148T5L/4P	120 W × 9	QT6-1183	ZUM3-800-120

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

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 253.7 nm 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 BSP/NPT	UV Lamp Code	Lamp Power	Quartz Tube Code	Ballast Code
	m³/hr	GPM						
SBA10-4320	120	530	1665 × 219 mm	DN125(5")	GPHHA1554T6L	320 W × 4	QT6-1630	ZUM4-2100-320
SBA10-5320	150	660	1665 × 219 mm	DN150(6")	GPHHA1554T6L	320 W × 5	QT6-1630	ZUM4-2100-320
SBA10-6320	230	1012	1665 × 274 mm	DN200(8")	GPHHA1554T6L	320 W × 6	QT6-1630	ZUM4-2100-320
SBA10-8320	300	1320	1665 × 274 mm	DN250(10")	GPHHA1554T6L	320 W × 8	QT6-1630	ZUM4-2100-320
SBA10-10320	450	1980	1665 × 325 mm	DN300(12")	GPHHA1554T6L	320 W × 10	QT6-1630	ZUM4-2100-320
SBA10-12320	530	2335	1665 × 325 mm	DN300(12")	GPHHA1554T6L	320 W × 12	QT6-1630	ZUM4-2100-320

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

NEW

⚡ **Voltage**
110V/220V 50/60Hz

🚨 **Alarm**
Audible and visual

💡 **Indicator**
Lamp operation and failure

FEATURES

- Sterilization efficiency up to 99.99%
- High-quality digital display electronic ballast, with CE and other authoritative qualification certificates
- The tube body is cleaned by ultrasonic high temperature to ensure that no impurities and foreign matter remain.
- Stainless steel 304 material, welding process is excellent, can pass 1.04MPa 100,000 times water hammer test
- Self-developed large screen integrated control, UV system failure alarms
- Translated with DeepL.com (free version)

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 m³/hr	Reactor Dimension	In/Outlet Port BSP/NPT	Package Size cm	UV Lamp Code	Lamp Power	Quartz Tube Code	Ballast Code
SDC-287	10	885 × 108mm	R1" male	96 × 22.4 × 42cm/1set	AHO843T5L/4P	87w × 2	QT5-875	ZAP3-800-87
SDC-387	18	885 × 133mm	R1.5" male	96 × 24.8 × 45cm/1set	AHO843T5L/4P	87w × 3	QT5-875	ZAP3-800-87
SDC-487	24	885 × 133mm	R1.5" male	96 × 24.8 × 45cm/1set	AHO843T5L/4P	87w × 4	QT5-875	ZAP3-800-87
SDC-587	37	885 × 168mm	R2" male	100 × 35 × 60cm/1set	AHO843T5L/4P	87w × 5	QT5-875	ZAP3-800-87
SDC-687	45	885 × 168mm	R2"male	100 × 35 × 60cm/1set	AHO843T5L/4P	87w × 6	QT5-875	ZAP3-800-87
SDC-787	60	885 × 219mm	R3" male	102.5 × 40 × 70cm/1set	AHO843T5L/4P	87w × 7	QT5-875	ZAP3-800-87
SDC-887	67	885 × 219mm	R3" male	102.5 × 40 × 70cm/1set	AHO843T5L/4P	87w × 8	QT5-875	ZAP3-800-87

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 0.8 MPa (116 psi)

● Ambient water temperature 2–40 °C

● UV transmittance > 75%

● Turbidity < 1 NTU

● Iron < 0.3 ppm (0.3 mg/L)

● Hardness < 7 gpg (120 mg/L)

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							
SIBM-2120	14	61	1212 × 108 mm	DN50	140 × 20 × 45 / 1 set	UVT5-4120	120 W × 2	QT5-1183	ZUM3-800-120
SIBM-3120	35	154	1212 × 133 mm	DN65	140 × 24 × 48 / 1 set	UVT5-4120	120 W × 3	QT5-1183	ZUM3-800-120
SIBM-4120	45	198	1212 × 133 mm	DN80	140 × 24 × 48 / 1 set	UVT5-4120	120 W × 4	QT5-1183	ZUM3-800-120
SIBM-5120	55	242	1212 × 168 mm	DN80	140 × 28 × 50 / 1 set	UVT5-4120	120 W × 5	QT5-1183	ZUM3-800-120
SIBM-6120	70	308	1212 × 168 mm	DN100	140 × 28 × 50 / 1 set	UVT5-4120	120 W × 6	QT5-1183	ZUM3-800-120
SIBM-7120	80	352	1212 × 219 mm	DN100	140 × 33 × 56 / 1 set	UVT5-4120	120 W × 7	QT5-1183	ZUM3-800-120
SIBM-8120	95	418	1212 × 219 mm	DN125	140 × 33 × 56 / 1 set	UVT5-4120	120 W × 8	QT5-1183	ZUM3-800-120
SIBM-9120	100	440	1212 × 275 mm	DN125	140 × 38 × 62 / 1 set	UVT5-4120	120 W × 9	QT5-1183	ZUM3-800-120
SIBM-10120	115	506	1212 × 275 mm	DN150	140 × 38 × 62 / 1 set	UVT5-4120	120 W × 10	QT5-1183	ZUM3-800-120

* 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

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/cm^2) 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.
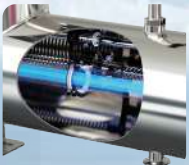
Auto-wiper: An auto-wiper can be used to clean the quartz without having to interrupt the treatment process. Wipers are used in water pre-treatment and wastewater systems where solids or scale deposits can form. Wipers are not required post-RO or demineralization

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	15 m³/hr	0.6 kW	8000 hours	DN50(2")
SMP108 B1/2	30 m³/hr	1.1 kW	8000 hours	DN50(2")
SMP168 B1/2	50 m³/hr	1.1 kW	8000 hours	DN50(2")
SMP168 C1/3	60 m³/hr	2.1 kW	8000 hours	DN80(3")
SMP108 C1/4	100 m³/hr	2.1 kW	8000 hours	DN100(4")
SMP168 D1/4	100 m³/hrr	3.4 kW	8000 hours	DN100(4")
SMP219 C1/4	100 m³/hr	2.1 kW	8000 hours	DN100(4")
SMP219 D1/6	230 m³/hr	3.4 kW	8000 hours	ON150(6")
SMP325 D1/8	350 m³/hr	3.4 kW	8000 hours	DN200(8")
SMP325 E1/8	400 m³/hr	4.9 kW	8000 hours	DN200(8")
SMP325 E1/10	535 m³/hr	4.9 kW	8000 hours	DN250(10")

UV Lamp Series

The UV lamp series is a special type of lighting that uses UV-C ultraviolet light to kill microorganisms such as bacteria, viruses, and fungi. UV-C ultraviolet light has high energy, and can destroy the DNA and RNA of these microorganisms, thereby making them lose the ability to reproduce and cause disease.
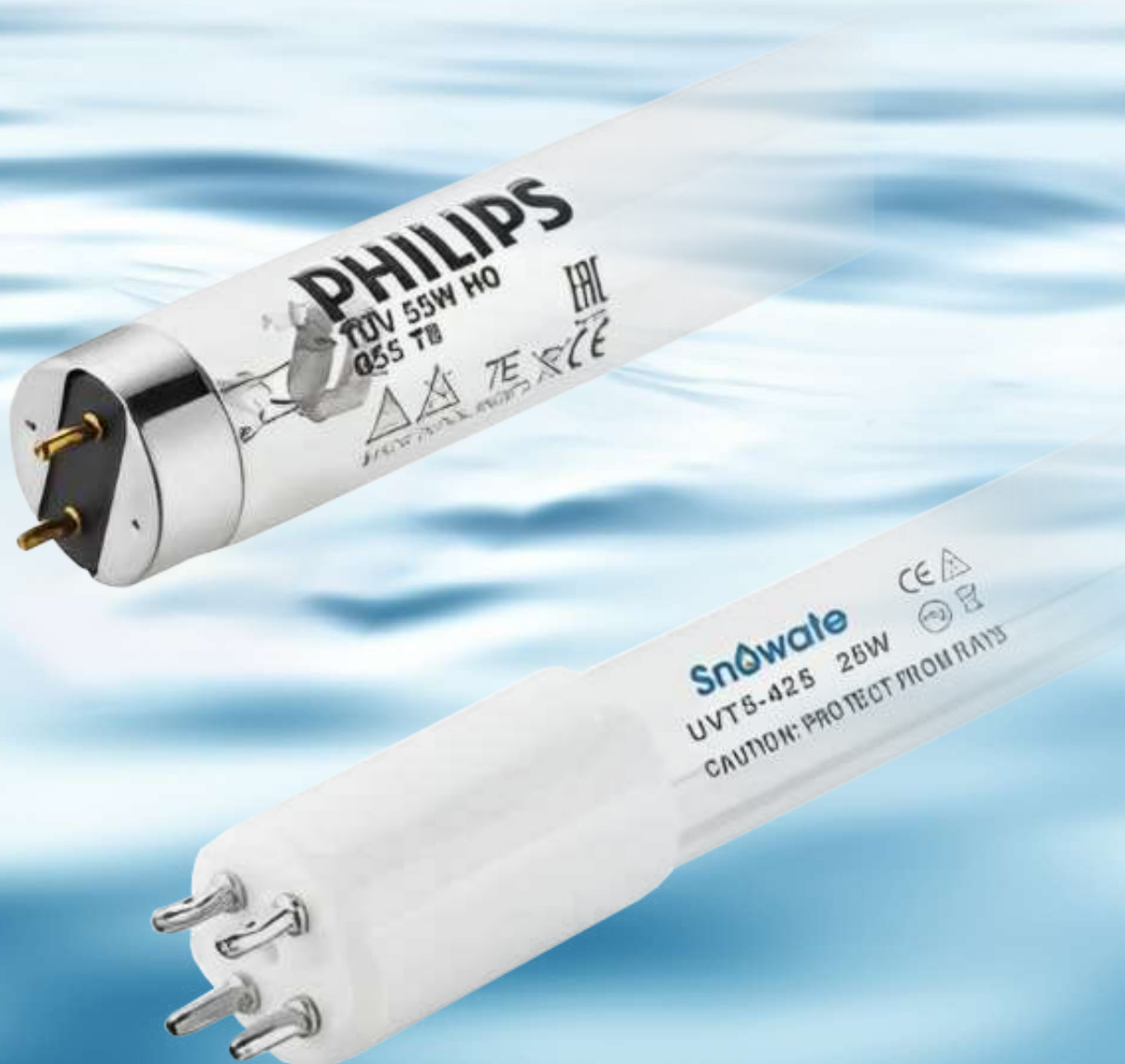
LIGHTSOURCES UV LAMP

○ 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	7 W	18	0.425	16000	QT5-185
GPH212T5L	G10Q	15	212	10 W	25	0.425	16000	QT5-245
GPH287T5L	G10Q	15	287	14 W	34	0.425	16000	QT5-322
GPH303T5L	G10Q	15	303	15 W	35	0.425	16000	QT5-338
GPH357T5L	G10Q	15	357	17 W	42	0.425	16000	QT5-392
GPH436T5L	G10Q	15	436	21 W	51	0.425	16000	QT5-470
GPH620T5L	G10Q	15	620	29 W	70	0.425	16000	QT5-655
GPH843T5L	G10Q	15	843	41 W	98	0.425	16000	QT5-875
GHO303T5L	G10Q	15	303	33 W	43	0.8	16000	QT5-338
GHO436T5L	G10Q	15	436	48 W	60	0.8	16000	QT5-470
GHO843T5L	G10Q	15	843	87 W	110	0.8	16000	QT5-875
GHO1000T5L	G10Q	15	1000	100 W	130	0.8	16000	QT5-1035
GHO1148T5L	G10Q	15	1148	120 W	195	0.8	16000	QT5-1183
GHO64T5L	G10Q	15	1154	155 W	195	0.8	16000	QT5-1589
GPHA1554T6L	G10Q	19	1154	240 W	134	1.8	16000	QT6-1589
GPHHA1554T6L	G10Q	19	1154	320 W	154	2.1	16000	QT6-1589

PHILIPS UV LAMP

o Quality assurance imported from Europe
o 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	4 W	25	0.165	9000	QT5-185
TUV 6W	G5	16	212.1	6 W	37	0.165	9000	QT5-245
TUV 8W	G5	16	288.3	8 W	47	0.17	9000	QT5-360
TUV 11W	G5	16	212.1	11 W	34	0.400	9000	QT5-245
TUV 16W	G5	16	288.3	16 W	33	0.425	9000	QT5-360
TUV 25W	G13	28	437.4	25 W	48	0.600	9000	QT8-498
TUV 30W	G13	28	894.6	30 W	102	0.370	9000	QT8-955
TUV 55W	G13	28	894.6	55 W	86	0.770	9000	QT8-955
TUV 11W 4PSE	G10Q	15	244.1	11 W	34	0.425	9000	QT5-295
TUV 16W 4PSE	G10Q	15	320.3	16 W	43	0.425	9000	QT5-360
TUV 25W 4PSE	G10Q	15	548.9	25 W	55	0.425	9000	QT5-580
TUV 36T5HE 4PSE	G10Q	15	845.4	40 W	14	0.425	9000	QT5-875
TUV 36T5HO 4PSE	G10Q	15	845.4	75 W	23	0.8	9000	QT5-875
TUV 325W×PTHOSE	G10Q	19	1574.3	320 W	160	2.0	9000	QT6-1630

Snowate

○ 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	4 W	23	0.165	8000	QT5-185
UVT5-406	G10Q	15	212	6 W	34	0.165	8000	QT5-245
UVT5-412	G10Q	15	265	12 W	37	0.425	8000	QT5-300
UVT5-416	G10Q	15	330	16 W	44	0.425	8000	QT5-360
UVT5-425	G10Q	15	550	25 W	58	0.425	8000	QT5-580
UVT5-428	G10Q	15	550	28 W	68	0.425	8000	QT5-580
UVT5-430	G10Q	15	870	30 W	80	0.425	8000	QT5-900
UVT5-435	G10Q	15	910	35 W	83	0.425	8000	QT5-940
UVT5-440	G10Q	15	843	40 W	94	0.425	8000	QT5-875
UVT5-455	G10Q	15	910	55 W	120	0.8	8000	QT5-940
UVT5-433	G10Q	15	303	33 W	35	0.8	8000	QT5-338
UVT5-448	G10Q	15	436	48 W	60	0.8	8000	QT5-470
UVT5-475	G10Q	15	843	75 W	97	0.8	8000	QT5-875
UVT5-487	G10Q	15	843	87 W	110	0.8	8000	QT5-875
UVT5-4120	G10Q	15	1148	120 W	150	0.8	8000	QT5-1183
UVT5-4240	G10Q	19	1554	240 W	134	1.8	8000	QT6-1589
UVT5-4320	G10Q	19	1554	320 W	154	2.1	8000	QT6-1589

Electronic Ballast

Electronic ballasts are an electronic control devices that use semiconductor electronic components to convert direct current or low-frequency alternating current voltage into high-frequency alternating current voltage, and drive the operation of low-pressure gas discharge lamps (germicidal lamps), halogen tungsten lamps, and other light sources. Their main function is to control the current and voltage of electrical equipment, preventing problems such as overload and short circuit. Under the action of high-frequency current, gas discharge lamps can emit light without producing high-voltage ignition, and there is no flickering sensation in the lighting tube.

ZAP2 Series

Electronic ballast

- 100–120 VAC or 220–240 VAC 50/60 Hz
- 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)	100–120 VAC or 220–240 VAC	170 mA	4–8 W	G5	TUV4W TUV6W	Pre-heat start
ZAP2-170-G6 (EB-G6)				G10Q	UVT5-404 UVT5-406	
ZAP2-425-F16 (EB-F16)	100–120 VAC or 220–240 VAC	425 mA	10–17 W	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)	100–120 VAC or 220–240 VAC	425 mA	19–28 W	G10Q	UVT5-425 UVT5-428 GPH436T5L GPH620T5L	Pre-heat start
ZAP2-425-G35 (EB-G35)	100–120 VAC or 220–240 VAC	425 mA	30–55 W	G10Q	UVT5-430 UVT5-435	Pre-heat start
ZAP2-425-G55 (EB-G55)	100–120 VAC or 220–240 VAC	425 mA	40–55 W	G10Q	UVT5-440 UVT5-455 GPH793T5L GPH843T5L	Pre-heat start
ZAP2-610-F25 (EB-F25)	100–120 VAC or 220–240 VAC	610 mA	25 W	G13	TUV25W	Pre-heat start
ZAP2-370-F30 (EB-F30)	100–120 VAC or 220–240 VAC	370 mA	30 W	G13	TUV30W	Pre-heat start
ZAP2-770-F55 (EB-F55)	100–120 VAC or 220–240 VAC	770 mA	55–75 W	G13	TUV55W	Pre-heat start
ZAP2-770-G55 (EB-G75)				G10Q	UVT5-433 UVT5-448 UVT5-475 UVT5-487 GHO436T5L-GHO843T5L	

JS Series

Electronic ballast

- 100–120 VAC or 220–240 VAC 50/60 Hz
- 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)	100–120 VAC or 220–240 VAC	170 mA	4–8 W	G5	TUV4W TUV6W	Pre-heat start
ZAP2-170-G6JS (EB-G6)				G10Q	UVT5-404 UVT5-406	
ZAP2-425-F16JS (EB-F16)	100–120 VAC or 220–240 VAC	425 mA	10–17 W	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)	100–120 VAC or 220–240 VAC	425 mA	19–28 W	G10Q	UVT5-425 UVT5-428 GPH436T5L GPH620T5L	Pre-heat start
ZAP2-425-G35JS (EB-G35)	100–120 VAC or 220–240 VAC	425 mA	30–55 W	G10Q	UVT5-430 UVT5-435	Pre-heat start
ZAP2-425-G55JS (EB-G55)	100–120 VAC or 220–240 VAC	425 mA	40–55 W	G10Q	UVT5-440 UVT5-455 GPH793T5L GPH843T5L	Pre-heat start
ZAP2-610-F25JS (EB-F25)	100–120 VAC or 220–240 VAC	610 mA	25 W	G13	TUV25W	Pre-heat start
ZAP2-370-F30JS (EB-F30)	100–120 VAC or 220–240 VAC	370 mA	30 W	G13	TUV30W	Pre-heat start
ZAP2-770-F55JS (EB-F55)	100–120 VAC or 220–240 VAC	770 mA	55–75 W	G13	TUV55W	Pre-heat start
ZAP2-770-G55JS (EB-G75)				G10Q	UVT5-433 UVT5-448 UVT5-475 UVT5-487 GHO436T5L-GHO843T5L	

Snowate

YS Series

CE

Electronic ballast

- 100–120 VAC or 220–240 VAC 50/60 Hz
- 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)	100–120 VAC or 220–240 VAC	170 mA	4–8 W	G5	TUV4W TUV6W	Pre-heat start
ZAP2-170-G6YS (EB-G6YS)				G10Q	UVT5-404 UVT5-406	
ZAP2-425-F16YS (EB-F16YS)	100–120 VAC or 220–240 VAC	425 mA	10–17 W	G5	TUV11W TUV16W	Pre-heat start
ZAP2-425-G16YS (EB-G16YS)				G10Q	UVT5-404 UVT5-412 UVT5-416 GPH212T5L-GPH357T5L	

ZUM1 Series

CE

c(UL)us

Electronic ballast

- 100–240 VAC 50/60 Hz
- 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)	100–240 VAC	425 mA	10–55 W	G10Q	UVT5-410 – UVT5-455 GPH212T5L – GPH843T5L	Pre-heat start
ZUM1-800-120 (EB-G45105)	100–240 VAC	800 mA	33–120 W	G10Q	UVT5-433 UVT5-448 GHO436T5L – GHO893T5L	Pre-heat start
ZUM1-1200-127 (EB-G42150)	100–240 VAC	1.2 A	42–127 W	G10Q	GPHA357T5L – GPHA1000T5L	Pre-heat start

ZUM1A Series

CE

Electronic ballast

- 100–240 VAC 50/60 Hz
- 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	100–240 VAC	425 mA	10–55 W	G10Q	UVT5-410 – UVT5-455 GPH212T5L – GPH843T5L	Pre-heat start
ZUM1A-800-120	100–240 VAC	800 mA	33–120 W	G10Q	UVT5-433 UVT5-448 GHO436T5L – GHO893T5L	Pre-heat start
ZUM1A-1200-127	100–240 VAC	1.2 A	42–127 W	G10Q	GPHA357T5L – GPHA1000T5L	Pre-heat start

ZAP4 Series

CE

c(UL)us

Electronic ballast

- 100–120 VAC or 220–240 VAC 50/60 Hz
- 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	425 mA	10–16 W	G5	TUV11W TUV16W	Pre-heat start
			10–55 W	G10Q	UVT5-410 – UVT5-455 GPH212T5L – GPH843T5L	
ZUP4-425-55	100–240 VAC	425 mA	10–55 W	G10Q	UVT5-410 – UVT5-455	Pre-heat start
ZUP4-800-87	100–240 VAC	800 mA	33–87 W	G10Q	UVT5-433 – UVT5-487	Pre-heat start

ZUM3 Series

Electronic ballast

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

Input Voltage	Input Voltage	Input Voltage	Input Voltage	Input Voltage	Input Voltage	Input Voltage
ZUM3-425-55	100−240 VAC	425 mA	10−55 W	Terminals	UVT5-410 – UVT5-455 GPH212T5L – GPH843T5L	Pre-heat start
ZUM3-800-120	100−240 VAC	800 mA	33−120 W	Terminals	UVT5-433 UVT5-448 GHO436T5L – GHO893T5L	Pre-heat start

ZAP10 Series

Electronic ballast

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

CE

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

ZUP13 Series

Electronic ballast

- 100–240 VAC, 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 Lamp	Start-Up Model
ZUP13-425-55	100–240 VAC	425 mA	10–55 W	G10Q	UVT5-410 – UVT5-455	Pre-heat start
ZUP13-800-87	100–240 VAC	800 mA	33–87 W	G10Q	UVT5-433 – UVT5-487	Pre-heat start

ZUP11 Series

Electronic ballast

- 100–240 VAC, 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 Lamp	Start-Up Model
ZUP11-425-55	100-240 VAC	425 mA	10-55 W	G10Q	UVT5-410 – UVT5-455	Pre-heat start
ZUP11-800 -120	100-240 VAC	800 mA	33-120 W	G10Q	UVT5-433 – UVT5-4120	Pre-heat start

ZD24P6 Series

CE

Electronic ballast

● 24 VDC 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 Lamp	Start-Up Model
ZD24P6-10-6	24 VDC	10 mA	4-6 W	VH3.96-3P	UVU2-204 – UVU2-206	Instant

ZAP3 Series

CE

Electronic ballast

● 100−120 or 220−240 VAC, 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 Lamp	Start-Up Model
ZAP3-425-55	220−240 VAC	425 mA	10−55 W	KF2EDGV	UVT5-410 – UVT5-455	Pre-heat start
ZAP3-800-87	220−240 VAC	800 mA	33−87 W	KF2EDGV	UVT5-433 – UVT5-487	Pre-heat start
ZLP3-425-55	100−120 VAC	425 mA	10−55 W	KF2EDGV	UVT5-410 – UVT5-455	Pre-heat start
ZLP3-800-87	100−120 VAC	800 mA	33−87 W	KF2EDGV	UVT5-433 – UVT5-487	Pre-heat start

Spare Parts

UV water sterilizer spare parts are used to ensure the normal operation and safety of the UV water sterilizer, including fixation, connection, protection, and monitoring functions.

Fixation function.
Accessories such as nuts and brackets are used to fix UV lamps and other components to ensure that they are securely installed in the proper position.

Connection function.
High-temperature wires, output wires, and power cables are used to connect the UV lamps to the power supply and transfer electrical energy to lamps to generate UV radiation.

Protection function.
Spare parts such as gland caps and springs are used to protect the UV lamps from physical damage and external contamination, thus extending their service life.
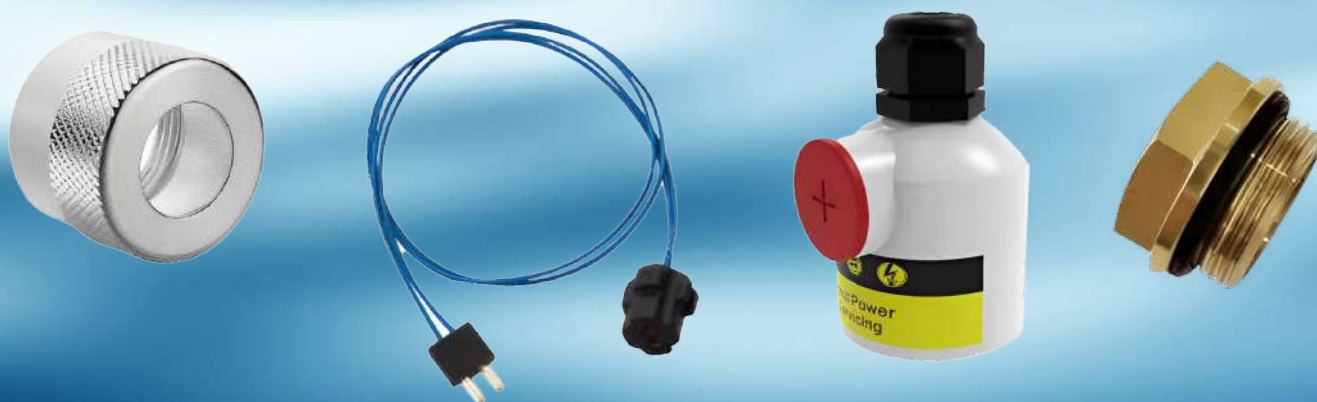
LENGTHENED NUT
- Aluminum or stainless steel material
- Connect with water-proof lamp holder

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

o Plastic material
o Economical maintenance
o Flexible assembly

BRACKET

o 304 SS or 316L SS material
o Rust resistance
o Solid installation

BRACKET

o Aluminum material
o Economical maintenance
o High precision processing

RUBBER COVERED CLIP (63.5)*

o Plastic material
o Soft rubber damping with buckle design

ALUMINUM CLAMP (89) *

o Aluminium material
o Extruded for a refined appearance
o Flexible assembly, and reliable installation

MOVABLE CLAMP *

o SUS304 material
o Flexible assembly, and welding free

4-CORE OUTPUT CABLE

o Optional G10Q or G5 or G13 lamp holder

HIGH TEMPERATURE WIRE

o Telfon material

POWER CABLE

o Plug optional

GLAND CAP

- Plastic material
- Waterproof connector

BOLT

- Copper material
- G1/2 male thread

UV SENSOR

- G1/2 male thread

FLOW SWITCH

- 1/4"or 3/8" quick connect

FLOW SWITCH

- Brass material
- 1/2 or 3/4 thread

SPRING

- SS 304 material
- Buffering function, keep uv lamp and quartz tube intacted

Installation Diagram

1. Unscrew the nuts at both ends of the steel pipe.

2. Install O-ring onto the open end of Quartz Tube (12mm from the edge). Insert the Quartz Tube into the Chamber. Install O-ring onto the closed end of Quartz Tube. Hand-screw Closed End Nut on the Chamber. To protect the O-ring, do not over tighten. Finally, connect Lamp socket with UV Lamp pins tightly.

3. If a vertical installation is adopted, please use the method of low water inlet and high water outlet to slow down the flow rate and increase the UV irradiation effect.

4. If the water flow rate is too fast, please install a flow restrictor.

5. If the turbidity of the raw water is too high, it will affect the penetration ability of UV light and reduce the sterilization effect. It is recommended to install a pre-filter.

6. Connect the water source to either the inlet or outlet, and connect the other end to the point of use. Check for any leaks before installing the UV lamp. After confirming everything is normal, insert the UV lamp securely and plug in the power cord.

7. After connecting to the power supply, do not remove the lamp tube, and absolutely do not stare at it with the naked eye.

8. If used in conjunction with a normally closed solenoid valve, please install this device at the inlet.

9. Before installing the quartz tube and UV lamp, be sure to wipe them clean to avoid affecting the irradiation intensity.
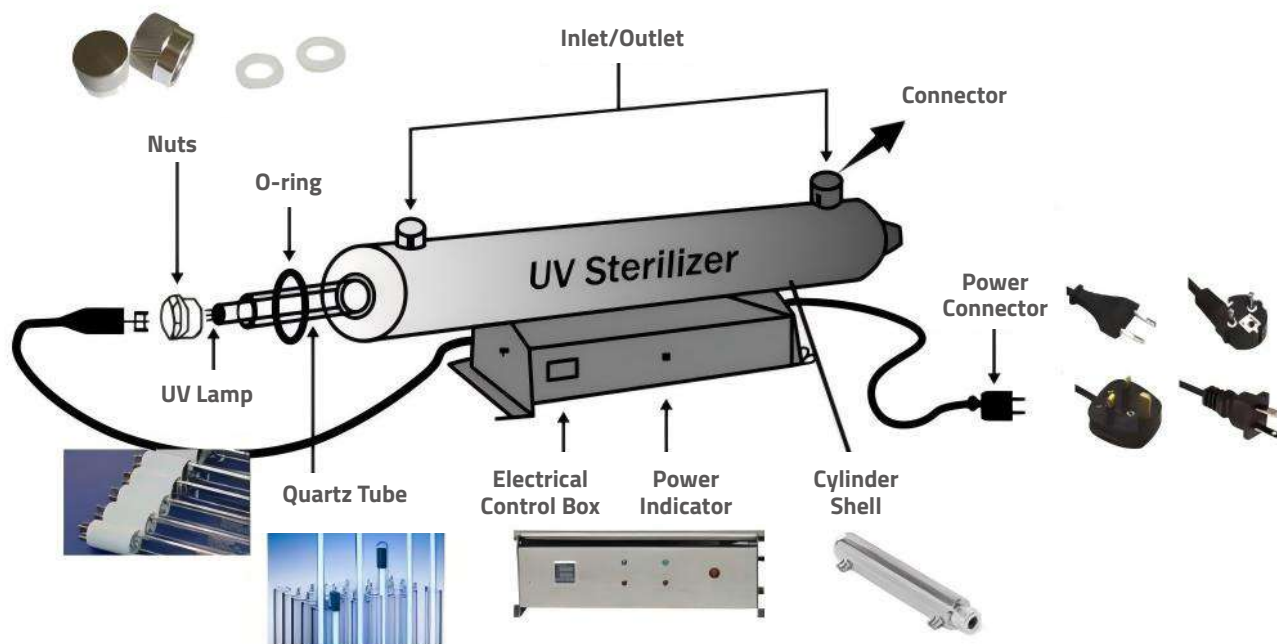
Whole House UV System

Whole house UV systems provide clean, filtered water to every faucet and appliance in the home. They effectively remove impurities, sediment, chlorine, and other pollutants, to ensure the quality of water for drinking, cooking, bathing, and laundry. The system typically includes a pre-filter (for removing larger particles), an activated carbon filter (for reducing chlorine and organic compounds), and an UV water sterilizer (for eliminating bacteria and harmful pathogens).

EPS Series

EPS whole house UV system is an advanced whole house water purification system. The unit delivers complete water treatment in 3 /4 stages filtration, adsorption and UV disinfection to remove sediment, bacteria and other pathogens while improving taste, clarity and odour.

FEATURES

● Makes all the water in the home safe to drink including bathrooms and showers.
● Bracketed design makes installation a breeze Compact wall-mounting design.
● Natural non-chemical method of treatment so you do not have to deal with chemicals.
● Very little maintenance required other than filter and UV lamp changes.
● Can be used on any water source such as well, lake, river or even municipally treated.

Snowate

COMPLETE WATER PURIFICATION SOLUTION IN ONE COMPACT, EASY INSTALLATION UNIT.

SNOWATE's EPS whole house UV system is an advanced whole house water purification system. The unit delivers complete water treatment in 3 /4 stages filtration, adsorption and UV disinfection to remove sediment, bacteria and other pathogens while improving taste, clarity and odour.

3 YEARS — 3year limited warranty

CE   RoHS

EPS-103 *

EPS-203 *

EPS-104 *

EPS-204 *

Shower Without Harsh Chlorine
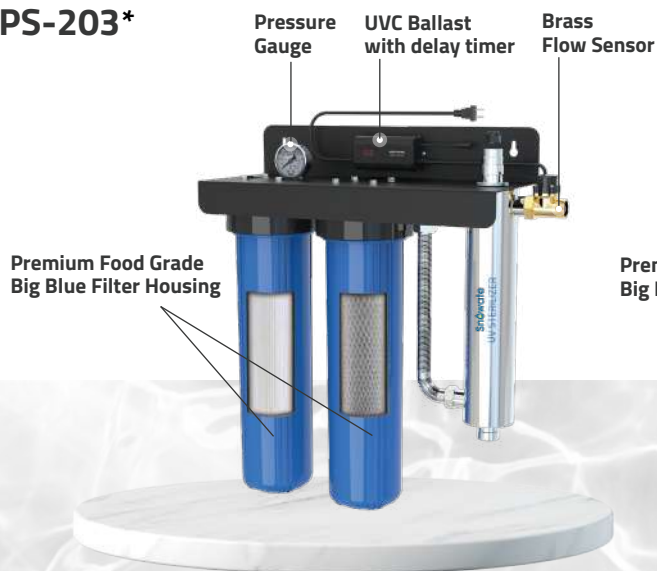
Drinkable Water From Every Faucet

Quick'plug & play'installation

Protects against

- Destroys 99.99% of pathogens including E. Coli, Cryptosporidium and Giardia making it safe for drinking.

- Removes sediment and improves taste, colour and odour of rainwater, bore water and town water.

- Corrosion-resistant Iron bracket.

- Premium 2 or 3 filter housings with PP sediment filter,Granular carbon filter and carbon block filter.

- 304 stainless steel UV reactor （316L is optional）.

- Digital controller with delay timer.

- Pre-assembled for quick 'plug & play' installation.

- Brass type material flow sensor to cut it off when not using.

EPS-203*

Pressure Gauge
UVC Ballast with delay timer
Brass Flow Sensor

Premium Food Grade Big Blue Filter Housing

EPS-204*

Premium Food Grade Big Blue Filter Housing

Main Functions

① **First Stage Sediment Filtration**
Removes common water impurities such as silt, dirt and rust.

② **Second Stage Granular Carbon filter(for EPS-104 and EPS-204)**
Adsorbs chlorine, fluoride, bad taste and odors.

③ **Third Stage Carton Filter**
Carbon block filter reduces chlorine and associated taste and odors in the water that affect the taste of drinking water and beverages, juices etc made with the water.

④ **Four Stage UV Disinfection**
Chemical-free process that destroys bacteria and other harmful pathogens in the water. No pathogen is known to be immune to UV Disinfection.

Benefits

* Makes all the water in the home safe to drink including bathrooms and showers.

* Bracketed design makes installation a breeze Compact wall-mounting design.

* Natural non-chemical method of treatment so you do not have to deal with chemicals.

* Very little maintenance required other than filter and UV lamp changes.

* Can be used on any water source such as well, lake, river or even municipally treated. (see feed water quality specifications below)

Protects against

Bacteria	Viruses	Chlorine taste and odour	Sediment	Cysts (Cryptosporidium, Giardia)

Hardness < 7.0 gpg (120 ppm)   Iron < 0.3 ppm   Manganese < 0.05 ppm

Turbidity < 1 NTU Tannins   Colour: None   UV Transmissivity > 85%

UV Dose ≥ 30mJ/cm²   Water Temperature Range : 4°C to 37°C (39 to 100°F)

Feed Water Pressure : 10 to 100 psi (68.9 to 689 kPa; 0.68 – 6.89 bar)
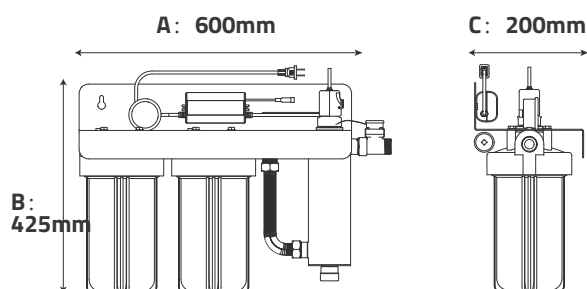
If any of these parameters in your water are outside the limits, you may need additional filtration. Please contact SNOWATE.
ATTENTION:Use only GENUINE SNOWATE UV lamps, Quartz tube, UVC ballast etc.

EPS whole house UV system   Recommended by professional installers.

▪ First line defense to your appliances. It protects and extends the life of your standard filters.
▪ Protect your entire plumbing system from sediment, rust, dirt, sand, and large particles. Flushable and reusable takes the considerable workload off finer filters that follow behind it.
▪ Easy installation with included 1-inch MNPT to 34 inch push-fit on both ends.

WD001

AGSP01

EPS-203

Washing Machines   Dishwasher   Water Heater   drinking water filter

Models & Specifications

A: 600mm **C: 200mm** **B: 425mm**

Model	Dimensions			UV Dose Flow Rates		
	A	B	C	16 mj/cm^2	30 mj/cm^2	40 mj/cm^2
* EPS-103	600	425	200	42 lpm (11 GPM)	31 lpm (8 GPM)	23 lpm (6 GPM)
	Inlet	**Outlet**	**1st Stage**	**2nd Stage**	**UV Lamp**	**Maximum Pressure**
	1" Female	1" Male	5 micron sediment filter (10 × 4.5")	Carbon Filter (10 × 4.5")	33 W	10 bar

A: 600mm **C: 230mm** **B: 675mm**
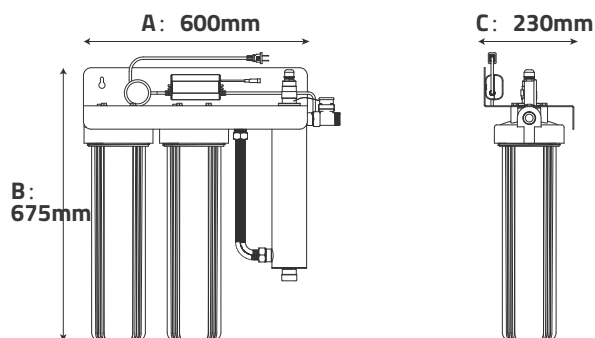
Model	Dimensions			UV Dose Flow Rates		
	A	B	C	16 mj/cm^2	30 mj/cm^2	40 mj/cm^2
* EPS-203	600	675	230	78 lpm (20 GPM)	45 lpm (12 GPM)	31 lpm (8 GPM)
	Inlet	**Outlet**	**1st Stage**	**2nd Stage**	**UV Lamp**	**Maximum Pressure**
	1" Female	1" Male	5 micron sediment filter (20 × 4.5")	Carbon Filter (20 × 4.5")	48 W	10 bar

A: 800mm **C: 200mm** **B: 425mm**
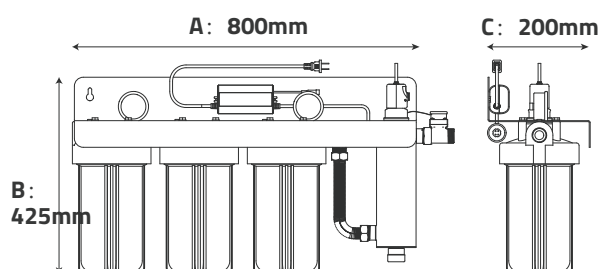
Model	Dimensions			UV Dose Flow Rates		
	A	B	C	16 mj/cm^2	30 mj/cm^2	40 mj/cm^2
* EPS-104	800	425	200	42 lpm (11 GPM)	31 lpm (8 GPM)	23 lpm (6 GPM)
Inlet	**Outlet**	**1st Stage**	**2nd Stage**	**3rd Stage**	**UV Lamp**	**Maximum Pressure**
1" Female	1" Male	5 micron sediment filter (10 × 4.5")	Carbon Filter (10 × 4.5")	Carbon bloc filter (10 × 4.5")	33 W	10 bar

A: 800mm **C: 230mm** **B: 675mm**
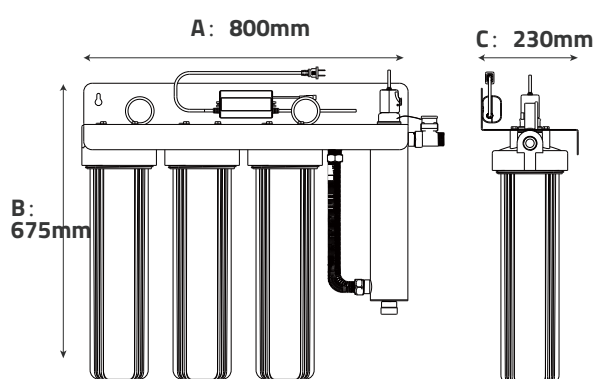
Model	Dimensions			UV Dose Flow Rates		
	A	B	C	16 mj/cm^2	30 mj/cm^2	40 mj/cm^2
* EPS-204	800	675	200	78 lpm (20 GPM)	45 lpm (12 GPM)	31 lpm (8 GPM)
Inlet	**Outlet**	**1st Stage**	**2nd Stage**	**3rd Stage**	**UV Lamp**	**Maximum Pressure**
1" Female	1" Male	5 micron sediment filter (20 × 4.5")	Carbon Filter (20 × 4.5")	Carbon bloc filter (20 × 4.5")	48 W	10 bar

WARRANTY

(refer to Owner's Manual for complete details including conditions & exclusions):

Reactor Chamber: Seven (3) Year   Limited Electronics: One (1) Year Limited

UV Lamps: 30 days against manufacturing defects   Quartz Sleeves: 30 days against manufacturingdefects

SPS-204S SPS-204 SPS-104 SPS-104S

SPS-103S SPS-103 SPS-203S SPS-203

CE c(UL)us LISTED E498777

UV WHOLE HOUSE PURIFICATION SYSTEM

Model: SPS-103, SPS-103S, SPS-104, SPS-104S
SPS-203, SPS-203S, SPS-204, SPS-204S

Applications

- Filtration and disinfection of rainwater
- Small and medium home potable water supply
- Bore and surface water – subject to water quality

GENERAL INFORMATION

The quality of drinking water can change with time and become contaminated with harmful bacteria.The home family of UV water purification systems with integrated pre-filtration provide a reliable,economical, and chemical-free way to safeguard drinking water in any residential application.Thanks to its advanced UV technology,the SPS series kills 99.99% of water bacteria. This system is widely used in disinfecting the drinking supplies of individual homes. Provide continuous clean, safe and fresh tasting water from your rainwater tank.

TYPICAL INSTALLATION
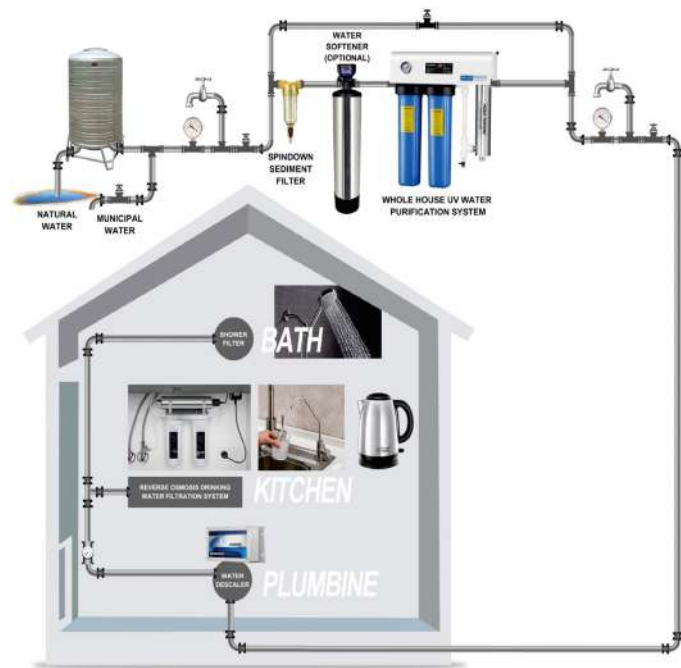
FEATURES

- 99.99% kill of bacteria, virus, protozoan cysts.
- Low pressure lamp and test tube quartz sleeve for easy cleaning and high performance.
- Environmentally friendly-no chemicals added to water and no water chemistry change.
- Comes supplied with sediment filter to remove particles and carbon block filter to remove lead and reduce odors, colour.
- Powder coated stainless steel cover for weather protection and durability
- 1" BSP connections compatible with plumbing tube.
- Lamp count-down timer display and alarm (audible & visible).
- Indicator lights show the status of system components and warning lights appear when system maintenance is required.
- An oil filled stainless steel pressure gauge shows the current system operating pressure.
- Fast plug & play installation.
- Hinged lid for easy access for lamp change

Specification

SNOWATE

MODEL	* SPS-103(S)[1]	* SPS-203(S)[1]	* SPS-104(S)[1]	* SPS-204(S)[1]
UV chamber material	SS304	SS304	SS304	SS304
In/outlet	3/4" & 1" BSPT	3/4" & 1" BSPT	3/4" & 1" BSPT	3/4" & 1" BSPT
Operation pressure	4–100 PSI	4–100 PSI	4–100 PSI	4–100 PSI
Ambient air temperature	2–50 °C	2–50 °C	2–50 °C	2–50 °C
Maximum humidity	95%	95%	95%	95%
Maximum hardness	120 ppm	120 ppm	120 ppm	120 ppm
Maximum iron	0.3 ppm	0.3 ppm	0.3 ppm	0.3 ppm
Minimum UVT	75%	75%	75%	75%
FLOW RATE				
Maximum rated flow at dose of 16 mJ/cm^2	57 LPM	85 LPM	57 LPM	85 LPM
Maximum rated flow at dose of 30 mJ/cm^2	30 LPM	45 LPM	30 LPM	45 LPM
Maximum rated flow at dose of 40 mJ/cm^2	23 LPM	34 LPM	23 LPM	34 LPM
ELECTRICAL				
Voltage	100–240 VAC	100–240 VAC	100–240 VAC	100–240 VAC
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Maximum power consumption	45 W	60 W	45 W	60 W
Lamp power	33 W	48 W	33 W	48 W
SERVICE				
Visual power on	YES	YES	YES	YES
Visual lamp life remaining	YES	YES	YES	YES
Audible lamp failure	YES	YES	YES	YES
Sediment filter, every 3 months to replace	10" × 4.5"	20" × 4.5"	10" × 4.5"	20" × 4.5"
Activated carbon filter, every 6 months to replace	10" × 4.5"	20" × 4.5"	10" × 4.5"	20" × 4.5"

NOTE
- Units model ending in (S) have coated steel stand bracket.
- The max. flow rate is determined by the carbon filter at 95% UVT.
- Service intervals will vary depending on incoming water quality

LED Drinking Water Filter System

Perfect for a wide range of single-faucet, point-of-use water treatment solutions in homes, cottages, or OEM applications

Combine 1,2 or 3 stages 10 inch or 20 inch slim blue water filter housing and a 4LPM UV LED water disinfection into one integrated product. Provide a reliable, economical and chemical-free way to ensure quality drinking water at everyone's taps by reducing chlorine, taste, odor, chemical, sediments and microorganism.
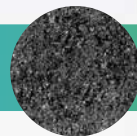
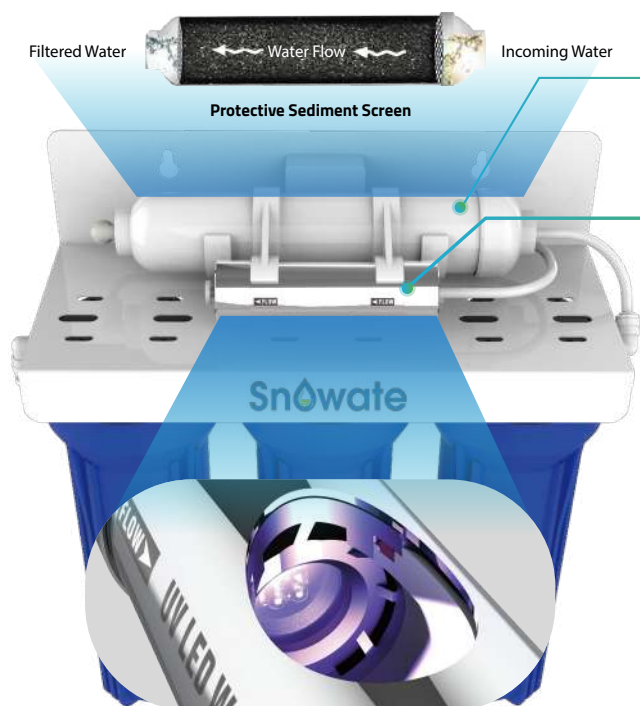**1**   **Stage 1 PP**   Sediment Filtration
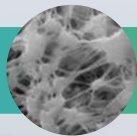
2   **Stage 2 GAC**   Carbon Filtration

3   **Stage 3 CTO**   Carbon Filtration

4   **Stage 4 T33 Inline Carbon Filter**

5   **Stage 5 UV LED Water disinfection**

Filtered Water ← Water Flow ← Incoming Water

Protective Sediment Screen

T33

T33 Inline Coconut Activated Cabon Filter

UV LED

Lastest UV technology to ensure it is free of pathogens such as bacteria (ex. e.coli and coliforms), viruses, and other microbiological contaminants including giardia (beaver fever) and cryptosporidium.

Smart Water Flow Sensor Switch automatically powers on/off UV light by water flow.

Water Quality Parameters

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

SPECIFICATIONS

Model No.	* PH3-S101	* PH3-S102	* PH3-S103	* PH3-S202
FLOW RATE (@95% UVT)				
ATO standard	4 LPM	4 LPM	4 LPM	4 LPM
DIMENSION				
Overall	133 × 160 × 386 mm	300 × 160 × 385 mm	400 × 160 × 390 mm	280 × 150 × 650 mm
Inlet/ Outlet Port Size	1/2" or 3/4" female	1/2" or 3/4" female	1/2" or 3/4" female	1/2" or 3/4" female
ELECTRICAL				
Voltage	110/220 VAC	110/220 VAC	110/220 VAC	110/220 VAC
Power consumption	8 W	8 W	8 W	8 W
Maximum Operating pressure	125 PSI (8.6 bar)	125 PSI (8.6 bar)	125 PSI (8.6 bar)	125 PSI (8.6 bar)
Influent Water temperature	2–40 °C (36–104 °F)	2–40 °C (36–104 °F)	2–40 °C (36–104 °F)	2–40 °C (36–104 °F)
FEATURES				
Filter	CTO + UV	PP + CTO + T33 + UV	PP + GAC + CTO + T33 + UV	PP + CTO + T33 + UV
Visual Power On	Yes	Yes	Yes	Yes
Filter Cartridge Chamber material	SS304	SS304	SS304	SS304
Flow Switch	Yes	Yes	Yes	Yes
Using Life	3 years for 3–4 people family	3 years for 3–4 people family	3 years for 3–4 people family	3 years for 3–4 people family

Water Descaler

Water descalers are devices used to prevent scale buildup and remove scale from water heaters, pipes, faucets, showers, and any equipment that water flows through. Hard water contains high levels of calcium and magnesium ions, which can combine with stearate ions to form magnesium stearate and calcium stearate. Both calcium stearate and magnesium stearate are insoluble in water. When water comes from areas with high calcium and magnesium ions, hard water can leave mineral deposits on pipes, faucets, showers, and appliances, commonly referred to as "scale". Descaling systems convert hard minerals in the water into ions that cannot crystallize, storing them in water as monomeric components, thereby preventing the formation of scale.

Snowate

DPSE Anti-scale device

SCALE P

Stronger anti-scale function
Reduce hard water problems using our innovative capacitive descaler systems.

DPSE technology is the cutting-edge water treatment material science and technology, pure physical principles set anti-scale, descale and anti-corrosion function in one, the selection of a variety of metal elements with different electronegative properties, the use of scientific proportion formula, through the complex high-temperature melting, alloy chip inside the formation of numerous insoluble uniform micro battery system.

ANTI-SCALE
Change the physical characteristics of fluid, affect the crystallization process of scale, and form aragonite crystals which are easy to disperse and not easy to adhere

SCALE REMOVAL
The fluid permeability is enhanced, and the dynamic dissolution equilibrium process makes the old scale gradually soft, crack and fall off

ANTI-CORROSION
Improve the passivation ability of metal anode area, greatly reduce the underscale corrosion.

anti-scale
Pure physical principle no magnetism no electricity

Descaling
No chemical agents and no emissions

Large flow rate
Meet commercial descaling water requirements

Energy conservation and emission reduction
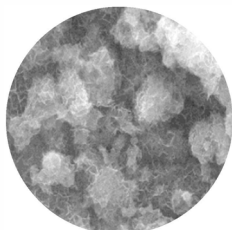Pure physical principle no magnetism no electricity
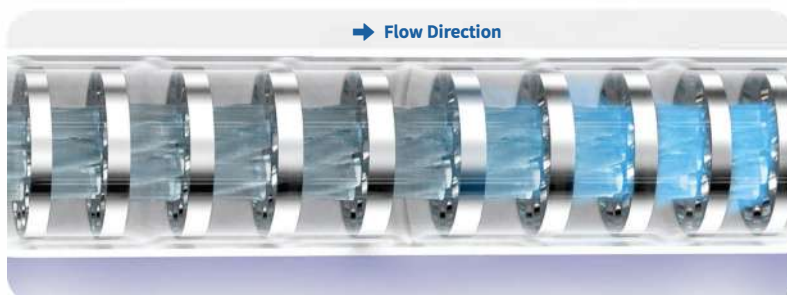
Scope of action
Distance: 5km

Ten-year long-term effect
Ten-year long-term effect

➡ **Flow Direction**

Calcite type
(Hard and easy to bind and difficult to clean)

Aragonite type
(soft and amorphous, easy to fall off and clean)

Application

Boilers and cooling towers， Food and beverage production， Hotels and resorts，
Manufacturing and industrial processes

Increase efficiency and reduce consumption
Reduce the energy consumption cost of equipment operation and save the operation cost.

Easy-to-install & maintenance-free
No addition, no maintenance.

Long operation distance
Long operation distance,≤ 5 kM.

No magnetism and electricity
No magnetic field, no electromagnetic radiation, installation without external power supply.

Environmentally friendly, chemical-free
Safe and environmentally friendly, no medicine and no emission

Easy installation
No power supply, hot melt joint configuration,convenient installation.

Product Model No.	CM001	CM002	CM003
Caliber	1-1/4"	1-1/2"	2"
Product Size	Φ 62 × 320	Φ 72 × 420	Φ 100 × 430
Product Weight	2500 g	3900 g	5800 g
Connection	Thread	Thread	Thread
Chamber Material	304 stainless steel	304 stainless steel	304 stainless steel
Pressure Level	≤ 150 LB	≤ 150 LB	≤ 150 LB
Flow Rate	8 T/H	10 T/H	20 T/H
Chip Diameter	50 mm	60 mm	88 mm
Chips Quantity	10	10	10
Water Source	Municipal water	Municipal water	Municipal water
Ambient Temp	≤ 100 °C	≤ 100 °C	≤ 100 °C
Minimum Flow Rate	1.45 T/H	2.26 T/H	3.53 T/H
Maximum Flow Rate	8 T/H	10 T/H	20 T/H
Average Flow Rate	5 T/H	8 T/H	12 T/H

Whole House Water Descaler

Your Best Scale Prevetion Solution

Scale Dp Unique hard water descaler is able to prevent the calcium and magnesium minerals from creating build-ups and scale deposits using DPSE technology, apart from eliminating contaminantsin water.

How it works

1. Hard water enters the stainless steel chamber
2. The existing scale salt occurred "Calcite" structure to"Aragonite" structure transformation, help reduce scale build-up and minimize the mineral particles you may find on surfaces that water touches
3. The minerals within the hard water begin to lose their scale producing properties due to changes in their molecular arrangement.
4. 'Hard' minerals are changed from large molecules to inactive microscopic particles, which flow freely, unable to stick to surfaces and cause scaling.

DPSE ion polarization system with pure physical descaling

Calcite Dense   Aragonite Powder

inlet   outlet
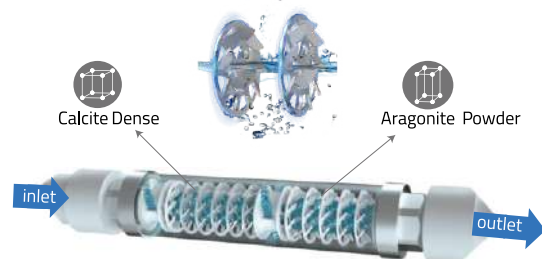
Does your home have a hard water problem?

Water hardness is most commonly caused by dissolved Calcium and Magnesium minerals. You may have a hard water problem in your home water supply if you notice any of the following tell-tale signs:
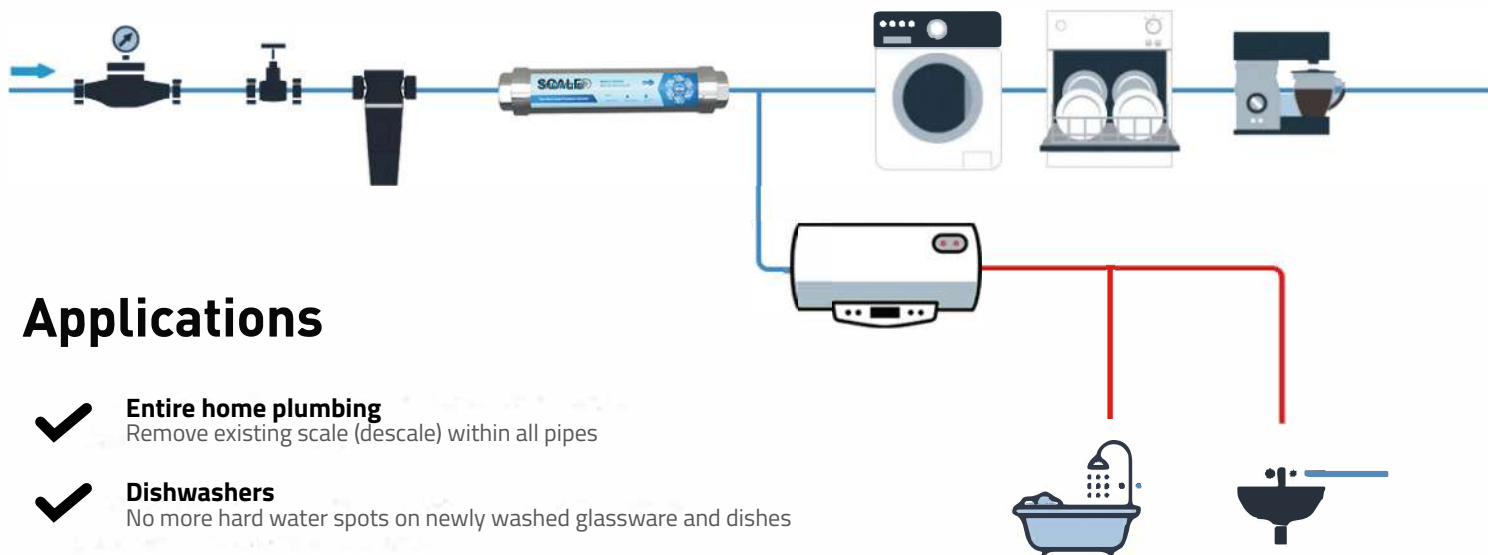
Drinking water   Warm Water & Legionella   Residential   Water heater

- Drinking water tasting or smelling funny
- Toilet bowl, sinks, showers and bath staining
- Scaling on all water outlets
- Soap scum in the bathroom and kitchen
- Spots on dishwasher cleaned glassware and dishes
- Loss of pressure in shower heads and unable to wash off soap or create sufficient lather

Applications

✓ **Entire home plumbing**
Remove existing scale (descale) within all pipes

✓ **Dishwashers**
No more hard water spots on newly washed glassware and dishes

✓ **Water heaters, Showers, Thermostatic Cartridges, Taps**
Disrupt the formation of limescale crystals on them

Ion Polarization System

Unlike conventional water softeners, the WD series produces soft water whilst requiring

No electricity	No resins	No backwashing
No salts	No magnets	No maintenance

Benefits

✓ **Installed inline within pipework**-small footprint, no tanks required

✓ **24/7 operation**-no backwashing or resin regeneration to interrupt treatment process

✓ **Uses no salt(sodium chloride) or other chemicals(potassium chloride)**-It doesn't need salt to soften water. This makes a salt-free water conditioner the best option for people-, which means no health concerns or environmental damage due to high salt water content

✓ **Nothing is removed from water**-vital minerals for human health are maintained unlike with RO systems which is safe and healthy

Technical Data

- Product name: Whole House Water Descaler
- Product model: WD001
- Scaling principle: Pure physical ion polarization
- Inlet & Outlet: DN20/DN25
- Installation method: Horizontal or vertical
- Water quality: Municipal tap water
- Plumbing Pipe: CPVC/PVC/PEX/copper/PPR
- Applicable pressure: 0.15−1 MPa
- Rating Flow rate: 4 m^3/h
- Minimum lifetime: 10 years
- Product Size: 255 mm(L) Φ54 mm
- Shipping weight: 1 kg (2.2 lbs) / unit

Snowate

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