

UV WATER PURIFIER AND STERILIZER



2024

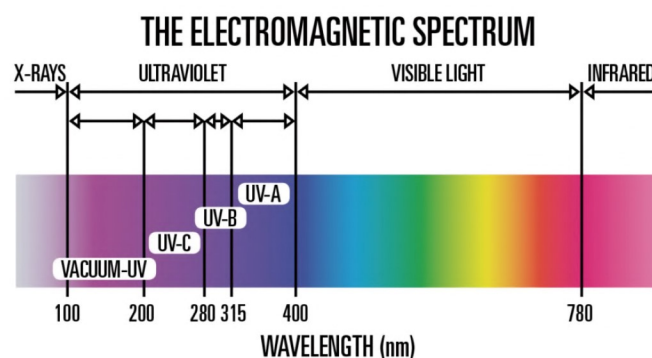
EDITION FOR
REDAWATER GROUP





What is Ultra Violet (UV) light?

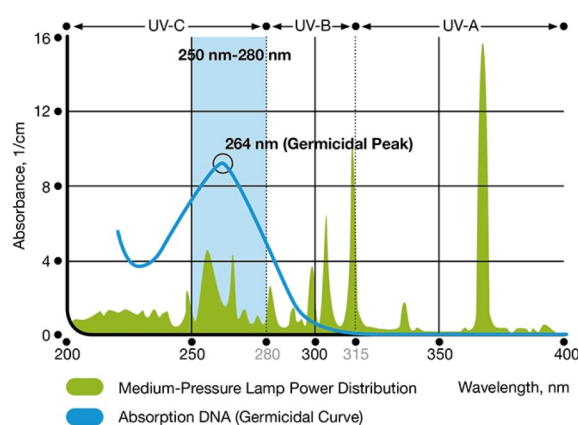
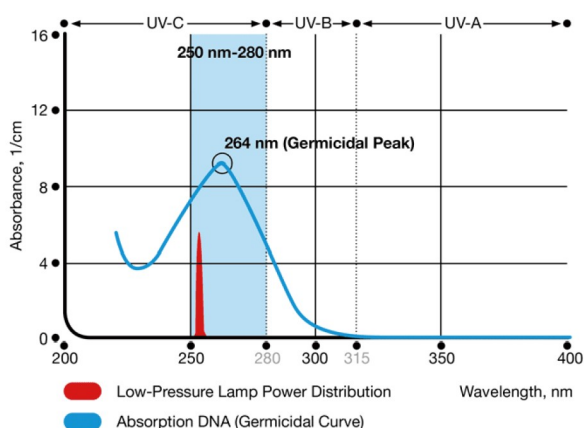
When UV light meets a microorganisms it penetrates its DNA, destroying the adenine and thymine bonds effectively inactivating bacteria, viruses, spores and moulds, by stopping them from multiplying and causing infection.



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°C		✓
Low running temperature	Low pressure lamps run at about 120°C, whereas medium pressure runs at 600°C to 800°C	✓	
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.



-  **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 $\geq 30\text{mJ}/\text{cm}^2$

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 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



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110V/220V 50/60Hz
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-  **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 $\geq 30\text{mJ}/\text{cm}^2$

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 $\geq 30\text{mJ}/\text{cm}^2$

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

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 $\geq 30\text{mJ}/\text{cm}^2$

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							
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

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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
- Multi-lamps system design reduced the risk of one lamp failure.
- Optimized chamber design and product flexibility enables cost-effective installation in extremely compact spaces.

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- Hardness<7gpg(120mg/L)
- Turbidity<1NTU
- UV transmittance>75%
- UV dose $\geq 30\text{mJ}/\text{cm}^2$

Model	Flow rate		Reactor dimension	In/outlet port	UV Lamp code	Lamp power	Quartz tube code	Ballast code
	m ³ /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



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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
- Connection triclamp zero dead leg stainless steel 316L

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 $\geq 30\text{mJ}/\text{cm}^2$

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							
PGS-055	2.7	12	955 X 63.5mm	1" triclamp	119 X 28 X 41.5 /8sets	UVT5-455	55w	QT5-940	EB-G55
PGS-110	5.4	24	950 X 108mm	1.5" triclamp	102.5 X 22.4 X 42 /1set	UVT5-455	55w X 2	QT5-940	EB-G55
PGS-165	8.1	36	950 X 133mm	1.5" triclamp	102.5 X 24.8 X 45 /1set	UVT5-455	55w X 3	QT5-940	EB-G55
PGS-220	10.9	48	950 X 133mm	1.5" triclamp	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



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)



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

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
TUV 11W 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 325WXP THOSE	G10Q	19	1574.3	320W	160	2.0	9000	QT6-1630

LAMP SERIES

- 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



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 GH0436T5L~GH0843T5L	



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	



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 GH0436T5L~GH0893T5L	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 GH0436T5L~GH0893T5L	Pre-heat start
ZUM1A-1200-127	100-240VAC	1.2A	42-127W	G10Q	GPHA357T5L~ GPHA1000T5L	Pre-heat start



LENGTHENED NUT

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



OPEN NUT

- Aluminum or stainless steel material



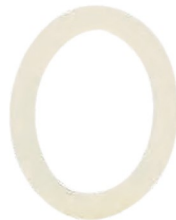
HEX NUT

- Aluminum material
- Plated by chrome, easy tightening



CLOSED NUT

- Aluminum or stainless steel material



O-RING

- Silicone material, safe food-grade



O-RING

- FKM material, FDA approved

SPARE PARTS



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