



Ultraviolet Filtration Systems

Purion

Product Guide

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Contents

Ultraviolet Disinfection (UV) Systems	1
S Series UV Systems	1
SLT Series Systems	2
S Series - Single Pass	3

Please note: Images in this product guide may vary and are a representation only. If you have any questions, please contact us for further information.

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Ultraviolet Disinfection (UV) Systems

with Pre-Filters & 'S' Series UV

Protection against water-borne pathogens and disease



S Series UV Systems

Removes sediments, organics, taste, odours and offers protection against water-borne pathogens and disease. Ideal for treating water drawn from tanks, creeks, rivers & spring-fed dams.

Benefits OF UV Disinfection

- No micro-organism is known to be immune to UV
- Non-chemical disinfection
- Economical and efficient operation
- No harmful by-products
- Environmentally friendly
- No risk of overdosing
- Proven performance
- Easy maintenance

Features

- 316 stainless steel UV chamber
- Quartz lamp sleeve
- SPA models with digital readout splash-proof power supply
- WPA models with IP55 rated PVC weatherproof power supply
- Dual 20" filters
- Post-filter pressure gauge
- Glow lamp indicator
- Easy maintenance
- 316 stainless steel flexible connectors
- Fully assembled and plumbed on PVC backboard, ready to hang
- Australian made

Options

- Lamp fail alarm
- Hour-run meter
- Sediment/sediment or sediment filters for high sediment or sediment/carbon filters for lighter sediment loading and taste and odour removal



Control Box Options



SPA



WPA



Model	UV Lamp (watts)	Flow Rate lpm*	In/Out (mm)	Cartridge Filters	Dimensions w x d x h (cm)
WTUVS20-110SPA	20	10.0	12	Single 10"	33 x 65 x 16
WTUVS30-220SPA WTUVS30-220WPA	30	30.0	20	Dual 20"	50 x 100 x 16
WTUVS40-220SPA WTUVS40-220WPA	40	40.0	25	Dual 20"	75 x 175 x 10
WTUVS40-220BBSPA WTUVS40-220BBWPA	40	60.0	25	Dual 20" Big Blue	75 x 175 x 10

SPA Models have splash-proof digital read-out power supply. WPA Models have IP55 rated PVC weatherproof power supply. Flow rates are a guide only & are based on 98% transmission @ 300J/m2. Effective UV kill is dependant on raw water quality & quantity & types of organisms present. UV transmission tests may be required to confirm correct UV selection. Contact Dowdens for confirmation of correct UV selection. Pressure 140-600kpa · pH 4-11 · TDS < 2000mg/l · Total Hardness < 75mg/l. Iron, manganese & hydrogen sulphide should be removed prior to the UV.



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Ultraviolet Disinfection (UV) Systems

Protection against water-borne pathogens and disease



SLT Series Systems

UV DISINFECTION SYSTEMS FOR DRINKING WATER HIGH PERFORMANCE DISINFECTION ON A BUDGET



Benefits OF UV Disinfection

- No micro-organism is known to be immune to UV
- Non-chemical disinfection
- Economical and efficient operation
- No harmful by-products
- Suitable for drinking, waste and process waters
- Environmentally friendly
- No risk of overdosing
- Proven performance
- Easy maintenance

CONTROL BOX OPTIONS

40044



40048 & 40088



50044 & 50081



50162 & 50172



Control Box Information

40044: Lamp fail alarm & indicator, not weatherproof

40048 & 40088: Lamp fail alarm & indicator, count-down timer, lamp change alert, not weatherproof

50044 & 50081: Lamp fail alarm, hour-use meter, weatherproof box

50162 & 50172: Lamp fail alarm, hour-use meter, weatherproof box

Standard Features

- 316 Grade Stainless Steel Electro-Polished Reactor
- BSP Threaded Connections
- Mounting Brackets
- Lamp Fail Alarm
- High Intensity, Low Pressure UV Lamps
- Lamps Parallel To Water Flow
- Quartz Lamp Sleeve

Options

- Lamp Life Run Counter
- Lamp Change Alert
- Digital Control Box
- Waterproof PVC Control Box
- UV Intensity Monitor

Model	Control Box Options	Flow Rate Litres/hr	In/Out BSP	Lamp Power (Watts)	Dimensions w x d x h (mm)
WTUVSLT30A WTUVSLT30B WTUVSLT30C	40044 40048 50044	2000	3/4"	30	590 x 65 x 130
WTUVSLT40A WTUVSLT40B WTUVSLT40C	40044 40048 50044	2700	1"	40	970 x 126 x 190
WTUVSLT75D WTUVSLT75E	40088 50081	5400	1"	80	970 x 136 x 190
WTUVSLT80D WTUVSLT80E	40088 50081	8200	2"	80	970 x 136 x 195
WTUVSLT125	50162	13000	2"	127	970 x 136 x 195
WTUVSLT172	50172	17800	2"	172	970 x 136 x 195

* Peak flow depends on optical transmission and performance requirements. Contact your dealer for correct sizing. For Table 1, peak flow based on 250 J/m² (PSS) with UVT of 98% at 254nm. For Table 2, peak flow based on 250 J/m² (PSS) with UVT of 75% at 254nm. ** Dimensions are approximate and subject to change without notice.

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Ultraviolet Disinfection (UV) Systems

Protection against water-borne pathogens and disease



S Series - Single Pass

DOUBLE PASS UV DISINFECTION SYSTEMS FOR DRINKING WATER, NURSERIES, PROCESS & WASTE WATER

Benefits OF UV Disinfection

- No micro-organism is known to be immune to UV • Non-chemical disinfection • Economical and efficient operation
- No harmful by-products • Suitable for drinking, waste and process waters • Environmentally friendly • No risk of overdosing
- Proven performance • Easy maintenance

CONTROL BOX OPTIONS

40048 & 40088



50044 & 50081



50162 & 50172



Control Box Information

40048 & 40088:

Lamp fail alarm & indicator, count-down timer, lamp change alert, not weatherproof.

50044 & 50081:

Lamp fail alarm, hour-use meter, weatherproof box.

50162 & 50172:

Lamp fail alarm, hour-use meter, weatherproof box

Standard Features

- 316 Grade Stainless Steel Electro-Polished Reactor • BSP Threaded Connections • Mounting Brackets • Lamp Fail Alarm • High Intensity, Low Pressure UV Lamps • Lamps Parallel To Water Flow • Quartz Lamp Sleeve

Options: • Lamp Life Run Counter • Lamp Change Alert • Digital Control Box • Waterproof PVC Control Box • UV Intensity Monitor

TABLE: FOR HIGH UVT APPLICATIONS (POTABLE AND PROCESS WATER)



Model	Control Box Options	Flow Rate Litres/hr	In/Out BSP	Lamp Power (Watts)	Dimensions w x d x h (mm)
WTUVGS20SPA	40048	1,200	1/2"	20	325 x 65 x 120
WTUVGS30SPA WTUVGS30WPA	40048 50044	2,500	3/4"	30	590 x 65 x 130
WTUVGS80SPA WTUVGS80WPA	40088 50081	8,300	1 1/2"	75	970 x 136 x 195
WTUVGS80SPA WTUVGS80WPA	50172 (X2)	8,500	2"	80	970 x 136 x 195

* Peak flow depends on optical transmission and performance requirements. Contact your dealer for correct sizing. For Table 1, peak flow based on 250 J/m² (PSS) with UVT of 98% at 254nm. Dimensions are approximate and subject to change without notice.

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