

Description

UV water disinfection system
For the disinfection of clean water to meet relevant water standards

Technical Description

Single centred low-pressure lamp UV system
Single-ended UV lamp and quartz sleeve

Main Applications

- Private drinking water supplies
- Process water
- Water cooling supplies
- Legionella growth in warm water supplies

Standards

Water regulatory advisory service (WRAS) approved (1612300)

Temperatures

Recommended water temperature: 5-23°C
Possible temperature range: 0-60°C
Maximum WRAS approved temperature: 23°C

Flow Rates (Litres/minute)

	Saphir 1		Saphir 2		Saphir 3		Saphir 4		Saphir 7		Saphir 10	
	l p/m	m ³ p/h	l p/m	m ³ p/h	l p/m	m ³ p/h	l p/m	m ³ p/h	l p/m	m ³ p/h	l p/m	m ³ p/h
30mJ/cm ²	18	1.08	30	1.8	53	3.18	60	3.6	118	7.08	160	9.6
40mJ/cm ²	12.5	0.75	22.5	1.35	40	2.4	44	2.64	88	5.28	116	6.96

Flows based on a UV transmission level of 98%.

All flows are calculated at end of lamp life time.

Please contact us for further information regarding flow rates.



01462 473820

uvc-vtm.co.uk

uvc@vtm.co.uk



Systems designed and manufactured by Daro UV in the UK, other requirements considered. Daro UV is a company registered in England & Wales. Registration Number: 06070435.

Model	Saphir 1	Saphir 2	Saphir 3	Saphir 4	Saphir 7	Saphir 10
Certification - WRAS approved	✓	✓	✓	✓	✓	✓
UV chamber						
Material - 316 stainless steel	✓	✓	✓	✓	✓	✓
Internal/external finish - pickled and passivated/electropolished	✓	✓	✓	✓	✓	✓
Lamp access - single ended	✓	✓	✓	✓	✓	✓
Quartz sleeve type - high purity silica quartz	✓	✓	✓	✓	✓	✓
Mounting - integral fixing bracket	✓	✓	✓	✓	✓	✓
Connection size - (BSPT male)	¾"	¾"	¾"	1"	1"	1½"
Dimensions	Please refer to general arrangement drawings					
Reactor volume approx - litres	1.9	2.7	2.7	5.0	5.0	8.5
Total weight (dry) - kilograms	1.5	2.0	2.0	3.5	3.5	8.5
Operating pressure (max) - bar	10	10	10	10	10	10
Protection class	IP56	IP56	IP56	IP56	IP56	IP56
Installation - horizontal/vertical	✓	✓	✓	✓	✓	✓
Saphir Features	High efficiency electronic ballast power supply, Lamp on indicator					
Saphir+ Features	All Saphir features, plus Lamp fail indicator, Power on indicator, Lamp change reminder with 365-days counter, Microcontroller, Visual display indication for lamp failure and end of life, Volt free contact for remote telemetry or solenoid shut off valve connection					
Saphir Pro Features	All Saphir and Saphir+ features, plus UV output performance indicator Digital UV intensity display (%), with low UV warning, Digital display / lamp life readout					
UV lamp						
Type	GER15SE	GER25SE	GER25XOSE	GER36SE	GER36XOSE	GER36XOSE
Lamp design - single-ended 4 pin	✓	✓	✓	✓	✓	✓
Lamp power - watts	15	25	45	40	75	75
UV-C output @ 254nm - watts	4	7.5	13	15	25	25
Quantity	1	1	1	1	1	1
Lamp life - hours	8760	8760	8760	8760	8760	8760
Control panel						
Material - powdercoated mild steel (white)	✓	✓	✓	✓	✓	✓
Dimensions (WxHxL) - millimetres	190x260x62	190x260x62	190x260x62	190x260x62	190x260x62	190x260x62
Weight - kilograms	2.5	2.5	2.5	2.5	2.5	2.5
Mains power - VAC/PH/Hz	220-240/ 1/50-60	220-240/ 1/50-60	220-240/ 1/50-60	220-240/ 1/50-60	220-240/ 1/50-60	220-240/ 1/50-60
Power consumption - watts	16.5	30	38.5	42	68	68
Current rating - amps	0.07	0.13	0.17	0.18	0.30	0.30
Protection - 3A mains fuse	✓	✓	✓	✓	✓	✓
Protection class	IP54	IP54	IP54	IP54	IP54	IP54
Mains connection - UK mains plug	✓	✓	✓	✓	✓	✓
Lamp power supply - electronic ballast	✓	✓	✓	✓	✓	✓