

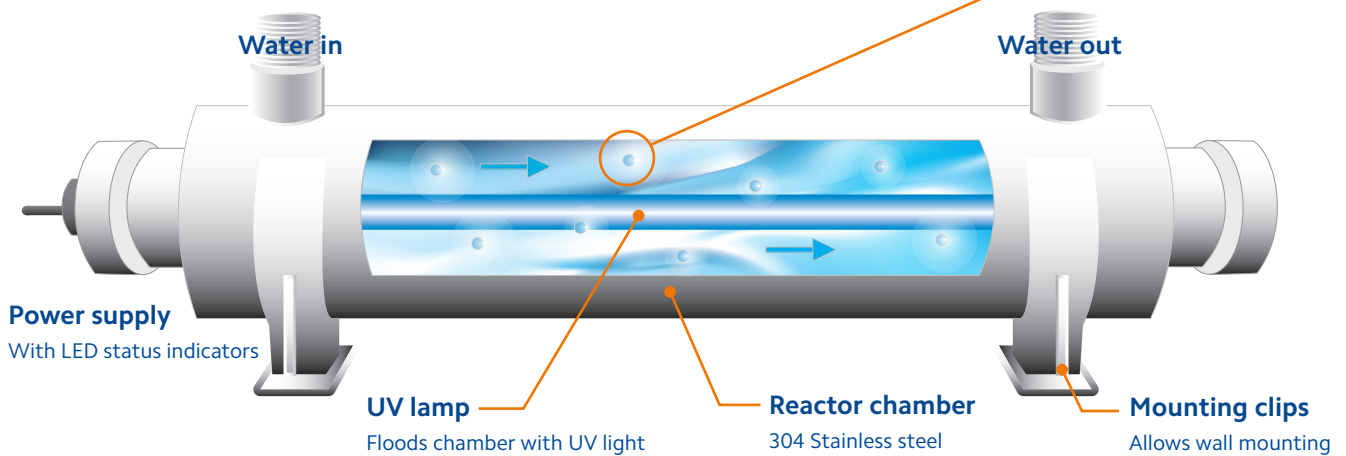
UV Disinfection Systems

UV light is effective against contaminants, such as bacteria, viruses, mould spores, algae and other microorganisms, preventing growth and reproduction. If left untreated, these organisms will remain in water, producing a bio-film coating throughout the system; harbouring more bacteria and making the water less safe to drink.

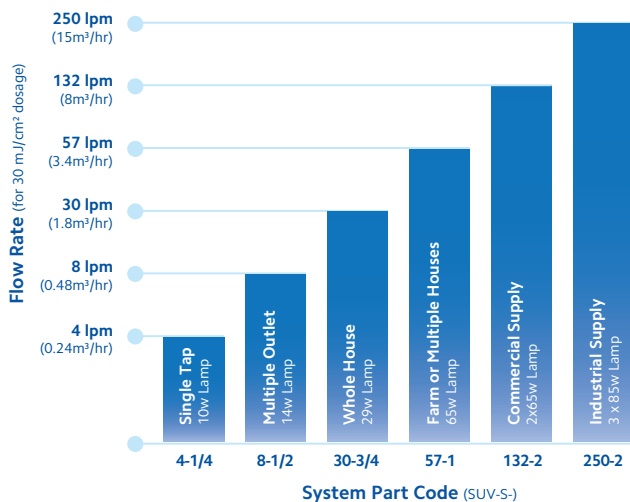
UV Systems

The unique natural properties of ultraviolet light have the ability to inactivate bacteria by destroying (or disassociating) the DNA of harmful organisms. This act of destroying the DNA means that the organism is unable to function, which in turn disables the replication process and prevents the ability to multiply and cause illness.

Shortwave, high energy UV light —specifically at 253.7 (254nm)— is especially effective at disrupting microorganism DNA. SPECTRUM SABRE systems use high quality UV lamps and glass quartz sleeves to target the exact wavelength required for disinfection.



How to Select your UV System



SPECTRUM Sabre systems have been designed to provide an effective dosage of 30mJ/cm² at the stated system flow rate. Each system is tailored to provide both a higher or lower dosage at different flow rates.

Product	Flow rate in lpm (m³/hr)		
	@ 16 mJ/cm²	@ 30 mJ/cm²	@ 40 mJ/cm²
SUV-S-4-1/4	6 (0.36)	3.8 (0.24)	3 (0.18)
SUV-S-8-1/2	13 (0.78)	7.6 (0.48)	5 (0.3)
SUV-S-30-3/4	52 (3.1)	30 (1.8)	23 (1.4)
SUV-S-57-1	100 (6.0)	57 (3.4)	43 (2.6)
SUV-S-132-2	232 (13.9)	132 (8.0)	100 (6)
SUV-S-250-2	441 (26.5)	250 (15)	191 (11.5)



SPECTRUM Sabre 132 and 250

Commercial, up to 250 lpm

For higher flow rate demands associated with commercial and industrial applications, the SPECTRUM Sabre range can answer the most challenging of high capacity requirements, increasing the quantity and power output of associated UV lamps.

Key Features

- Separate control box with audible and visual indicators of system operation
- High dosage UV lamps
- Quality stainless steel construction

Materials of Construction

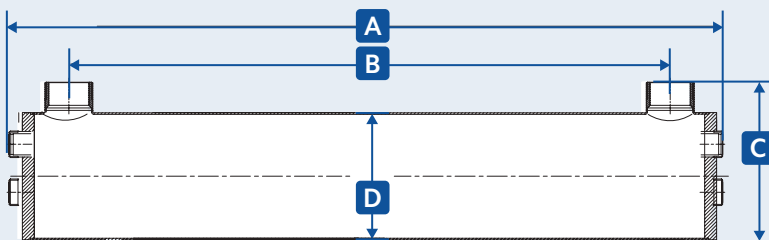
Reactor Chamber
304 Stainless Steel

Sleeve
Quartz

O-Rings
Silicone (SUV-54/8/30)
Viton (SUV-557/132/250)

Nuts
Aluminium

Technical Drawing



Product Specifications

Operating Temperature Range 2-40°C	Frequency 2-40°C
Operating Pressure Range 0.7-6.8 bar	Lamp Life 9,000 hours
Voltage Power Supply 240V / 50 Hz	

	Flow (lpm)	Port Size (")	Lamp (W)
SUV-S-132-2	132	2	65 x 2
SUV-S-250-2	250	2	85 x 3

Typical Applications

- Food and beverage
- General industrial process water
- Commercial borehole supplies

Part Number & Dimensions

Code	Dimensions			
	A	B	C	D
SUV-S-132-2	890	760	127	89
SUV-S-250-2	890	750	197	159