



## **BARRIER® S UV SYSTEMS**

### **WALLACE & TIERNAN® UV DISINFECTION SYSTEMS**

Barrier® S UV systems are low pressure lamp based disinfection systems. With these units, Evoqua Water Technologies completes its range of medium and low pressure lamp based UV systems. All components of the Barrier S system are of the highest quality including, the UV lamps, quartz sleeves, electronic lamp power supplies, sensors and finally the control unit.

The Barrier S system offers optimised hydraulics which enable a low headloss. The optimised UV lamp positioning ensures that a high disinfection efficiency is achieved. Furthermore, it has a low energy consumption and low operational costs.

The Barrier S system is certified for the disinfection of potable water. User-friendly electronic controls provide a reliable operation system while several pre-alarm and alarm options inform the operator if the system is not functioning as required. Data logger functionality as well as an event memory are integrated for further benefit.

The Barrier S systems are easy to service and can be installed with little piping effort in both horizontal and vertical positions. Single lamp units have a Z-shape and multi-lamp units have the U-shape chamber design. If required, UV lamps and quartz sleeves can be changed easily.

### **Applications**

- Disinfection of potable water
- Disinfection support of pool water
- Treatment of process and wastewater in industries e.g. food & beverage, pharmaceutical, and fish hatcheries

### **Features**

- Optimised power control
- DVGW and ÖVGW certification

### **Key Benefits**

- High reliability
- Low power consumption
- Service and maintenance friendly design
- Space saving and flexible installation
- Horizontal or vertical operation

## TECHNICAL DATA

### BARRIER® S SERIES UV SYSTEMS

Model	Flow (m <sup>3</sup> /h)*	Lamp	Power supply (kWh)	Design	Operation pressure (bar)	Dimensions (H x W x D; mm)
Barrier S 5	3.1	1 x WTS 45	0.055	Z	16	634 x 265 x 129
Barrier S 10	7.1	1 x WTS 90	0.095	Z	16	1084 x 265 x 129
Barrier S 20	16.6	1 x WTS 300	0.270	Z	10	1163 x 366 x 168
Barrier S 50	44.0	2 x WTS 300	0.580	U	10	1161 x 306 x 206
Barrier S 70	62.5	3 x WTS 300	0.840	U	10	1161 x 361 x 256
Barrier S 130	108.9	4 x WTS 300	1.090	U	10	1169 x 432 x 324
Barrier S 160	136.1	3 x WTS 400	1.250	U	10	1619 x 364 x 256
Barrier S 220	189.0*2	4 x WTS 400	1.650	U	10	1621 x 432 x 324

\*: DVGW, T<sub>10MM</sub> = 95%

\*2: FLOW RATE > 190 M<sup>3</sup>/H ON DEMAND



885 Mountain Highway, Bayswater, VIC, 3153, Australia

1300 661 809 (Ph) / +61 3 8720 6597 (Int) 1300 661 708 (Fax) / +61 3 8720 6502 (Int) [www.evoqua.com.au](http://www.evoqua.com.au)

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