



BARRIER® S UV SYSTEMS

WALLACE & TIERNAN® UV DISINFECTION SYSTEMS

Barrier® S UV systems are low pressure lamp based 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 position. Single lamp units have a Z-shaped 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

Key Benefits

- High reliability
- Optimized power control; low power consumption
- Service and maintenance friendly design
- Space saving and flexible installation
- Horizontal or vertical operation
- DVGW and ÖVGW certification

TECHNICAL DATA

BARRIER® S SERIES UV SYSTEMS

Model	Flow (m ³ /h)*	Lamp	Power supply (kW)	Design	Operation pressure (bar)	Dimensions (H x W x D; mm)
Barrier S 5	3.5	1 x WTS 45	0.055	Z	16	634 x 265 x 129
Barrier S 10	8.0	1 x WTS 90	0.095	Z	16	1084 x 265 x 129
Barrier S 20	18.7	1 x WTS 300	0.270	Z	10	1163 x 366 x 168
Barrier S 50	50	2 x WTS 300	0.580	U	10	1161 x 306 x 206
Barrier S 70	70	3 x WTS 300	0.840	U	10	1161 x 361 x 256
Barrier S 130	125	4 x WTS 300	1.090	U	10	1169 x 432 x 324
Barrier S 160	155	3 x WTS 400	1.250	U	10	1619 x 364 x 256
Barrier S 220	217* ²	4 x WTS 400	1.650	U	10	1621 x 432 x 324

*: DVGW, T_{10MM} = 98%, FLUENCE (UV DOSE) 400 J/M²

*²: FLOW RATE > 217 M³/H ON DEMAND

POWER SUPPLY FOR ALL UNITS: 1/N/PE AC 230 V, 50 - 60 HZ



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