



## Waste series



The W Series is a powerful UV system that reliably disinfects water with a transmittance (T10) between 40% and 60%. This series is suitable for waste water or reusable streams, among others. The W-systems can be equipped with a wiping system, either hand or automatic wiping, which for the greater part limits the

chances of a lower disinfection performance due to pollution. In addition, a DNV-approved marine cable can be used. Depending on the transmittance of the water volumes of 0.5m<sup>3</sup>/h up to 120m<sup>3</sup>/h, can be treated with a UV-C dosage of 300J/m<sup>2</sup>.

## Characteristics

- Reliable and effective disinfection
- Low maintenance
- Easy to use
- Energy efficient
- Low-pressure lamps with a long lifespan and high UV-C efficiency.

# Specifications

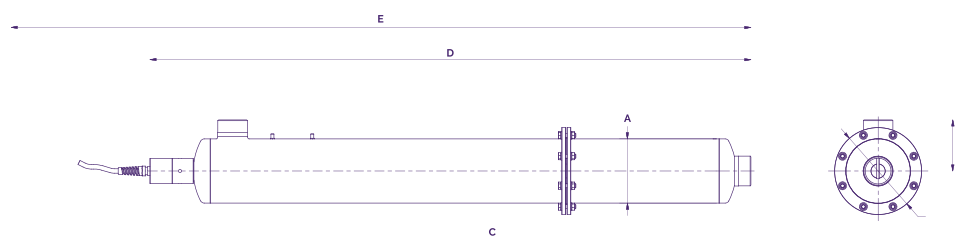


Type	W0.5	W1	W3	W5	W8	W11
<b>UV Chamber</b>						
Material	316L / 1.4404 Stainless steel					
In-/Outlet Connections	1.5" BSP-T, PN16	1.5" BSP-T, PN16	1.5" BSP-T, PN16	2" BSP-T, PN16	2" BSP-T, PN16	3" BSP-T, PN16
Pressure drop	< 0.1 bar					
Max. Pressure	10 bar at 25 °C					
Mounting orientation	Horizontal/ Vertical	Horizontal/ Vertical	Horizontal/ Vertical	Horizontal	Horizontal	Horizontal
Diameter - A (mm)	60	60	60	60	60	89
Height - B (mm)	68	68	68	67	67	99
Installation dimension - C (mm)	550	550	1050	1332	1602	1589
Length - D (mm)	697	697	1197	1479	1749	1763
Required working space - E (mm)	1250	1250	2500	2800	3350	3400
Weight (KG)	3.5	3.5	5.7	7	8.2	11.4

<b>UV-C lamp</b>						
Lamp type (low pressure)	25 W Regular	50W Regular	120W Long Life	205W Long Life	325W Long Life	325W Long Life
Preferred water temp. (°C)	5°C - 30°C					
Total UV-C output (Watt)	7	15	38	58	116	116
Lamp lifespan (hours)	8000	8000	16000	16000	16000	16000
Number of lamps	1	1	1	1	1	1

<b>Control Unit</b>						
Material	Aluminium and ABS					
Dimensions (lxbxh)	300x160x110 mm					
Control features	Lamp status, lamp hours, system running time, volt free alarm contacts					
Sensors	UV Sensor (UVS), Temperature Safety Sensor (TSS), Temperature Safety Dumpvalue (TSD)					
Operating voltage	230 VAC, 50/60 Hz					
Electrical connection	6A C-char./4A D-char.					
Protection rating	IP55					
Preferred ambient temperature (°C)	5°C - 35°C					
Total Power Consumption (Watt)	30	60	145	230	365	365

<b>Approvals</b>	
Complies with	Low Voltage Directive (LVD) 2014/35/EU, Electromagnetic Compatibility Directive (EMC) 2014/30/EU, Machinery Directive 2014/42/EC



# Specifications



Type	W30	W50	W60	W70	W90
<b>UV Chamber</b>					
Material	316L / 1.4404 Stainless steel				
In-/Outlet Connections	DN100, PN16	DN150, PN16	DN150, PN16	DN200, PN16	DN200, PN16
Pressure drop	< 0.2 bar				
Max. Pressure	10 bar at 25 °C				
Mounting orientation	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Diameter - A (mm)	204	204	204	254	254
Height - B (mm)	159	220	220	322	322
Installation dimension - C (mm)	1431	1573	1573	1588	1588
Length - D (mm)	1621	1824	1824	1903	1903
Required working space - E (mm)	3100	3650	3500	3660	3660
Weight (KG)	42.2	52.3	54.6	75.8	77.6

## UV-C lamp

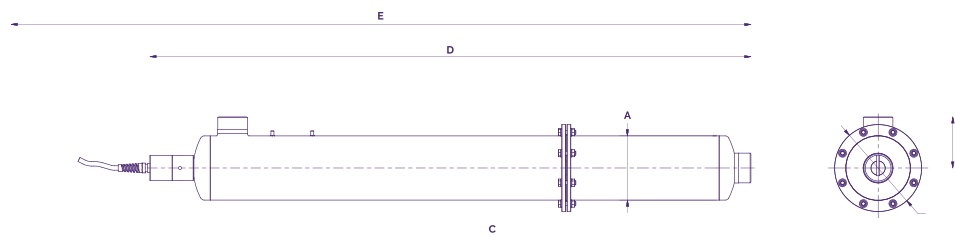
Lamp type (low pressure)	205W Long Life	325W Long Life	325W Long Life	325W Long Life	325W Long Life
Preferred water temp. (°C)	5°C - 30°C				
Total UV-C output (Watt)	232	464	580	696	812
Lamp lifespan (hours)	16000	16000	16000	16000	16000
Number of lamps	4	4	5	6	7

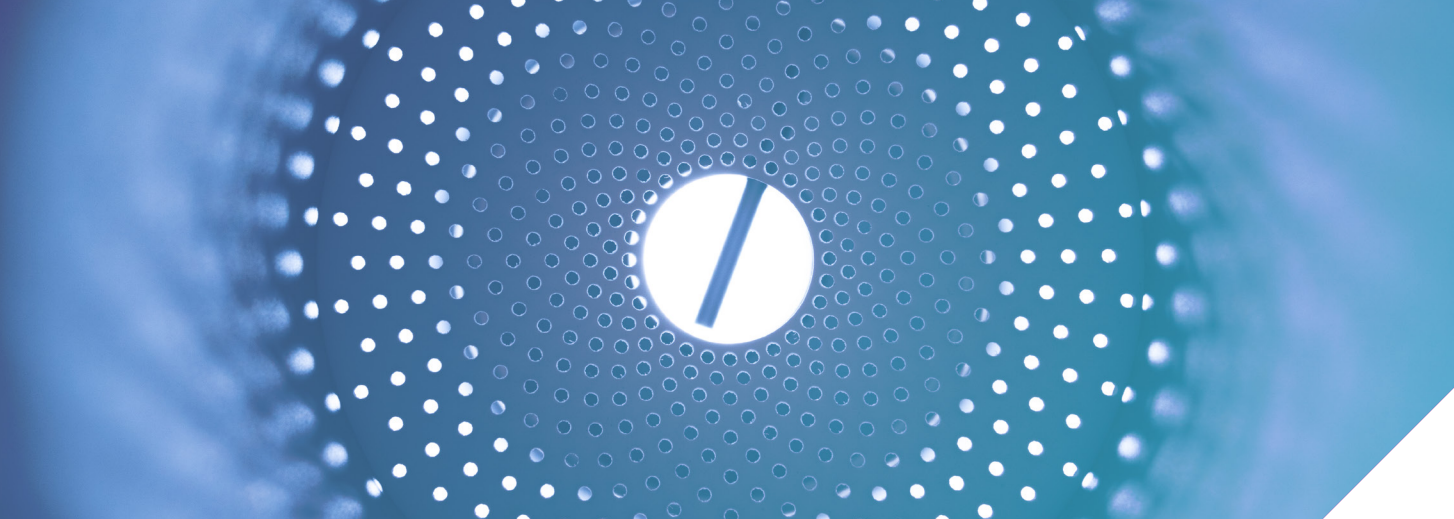
## Control Unit

Material	Coated steel				
Dimensions (lxbxh)	800 x 600 x 210 mm		800 x 800 x 210		
Control features	Lamp status, lamp hours, system running time, volt free alarm contacts				
Sensors	UV Sensor (UVS), Temperature Safety Sensor (TSS), Temperature Safety Dumpvalue (TSD)				
Operating voltage	230 VAC, 50/60 Hz				
Electrical connection	20A C-char./10A D-char.	25A C-char./16A D-char.	32A C-char./16A D-char.	40A C-char./20A D-char.	
Protection rating	IP54				
Preferred ambient temperature (°C)	5°C - 35°C				
Total Power Consumption (Watt)	915	1445	1810	2170	2530

## Approvals

Complies with	Low Voltage Directive (LVD) 2014/35/EU, Electromagnetic Compatibility Directive (EMC) 2014/30/EU, Machinery Directive 2014/42/EC
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Capacities in m<sup>3</sup>/h at a doses of 300 J/m<sup>2</sup>

Unit	T10 40%	T10 45%	T10 50%	T10 55%	T10 60%
W0.5	0.5	0.5	0.6	0.6	0.6
W1	0.8	0.9	1	1	1.1
W3	2.4	2.6	2.7	2.9	3.1
W5	4.8	5.2	5.5	5.8	6.2
W8	7.2	7.7	8.2	8.7	9.2
W11	9.1	10.2	11.2	12.3	13.5
W30	23	26	30	34	39
W50	38	44	51	58	67
W60	48	55	63	73	83
W70	54	63	73	85	99
W90	68	78	89	103	119

