

UV-Systems for Sea Water



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- High UV-C output at low energy consumption
- UV monitoring and control by a highly selective, calibrated UV sensor
- Long lamp life
- All media touched materials suitable for corrosive waters
- Electrical cabinet and reaction chamber are separately installed
- Simple operation and maintenance

These UV units are suitable for corrosive media and sea water. The reaction chamber is made of high density polyethylene HDPE. The high efficiency lamps ensure optimal disinfection as well in cold as in warm waters. The UV-C power output is controlled by highly selective, calibrated UV sensor. You may install the reaction chamber vertical or horizontal. The electric cabinet is mounted separately.

Type	A10-PE	B32-PE	B60-PE	B120-PE	B160-PE	B300-PE
Max. water flow in m ³ /h*	10.4	32.0	67.5	134	220	393
Electrical connection in kW	0.17	0.38	0.57	0.95	1.33	2.84
Flange adapter	DN65	DN100	DN150	DN200	DN200	DN300
Reactor volume in litre	12.7	36	42	60	77	133
Weight in kg	10	21	28	43	53	103
Max. operation pressure	6 bar / 85 psi					
Degree of protection	IP65					
Type of UV-lamp	SLR2581		SLR25113			SLR25143
UV-C power 254 nm in W	43		63			95
Numbers of lamps	1	2	3	5	7	9
Life time of lamp in h	10,000					
Dimensions cabinet W × H × D in mm	295×310 ×175	760×760×300			800×1000 ×300	1200×1000 ×300
Water temperature	5...35°C (40...95°F)					
UV-lamp	Mercury low pressure lamp with amalgam indium endowment and high UV-C output					
UV-sensor	Calibrated, certified ÖVGW, 100% day light insensible, accuracy ± 3 %, selectivity > 99% at 254 nm, temperature resistant at continuous operation until 70°C (158°F)					
Electric cabinet	Selector switch for A-PE (manual – 0 – auto) Selector switch for B-PE (test – 0 – normal) SEC controller with blue keyboard display, fan (series B-PE), ballast, soft-start for ignition system, electronically surveyed single lamp control; UV efficiency monitor with 2 limits and standard signal; LED display: operation, pre-alarm, alarm; LC-Display: W/m ² (UV intensity), operating hours (total, lamp), operation cycles, status message (selectable languages: German, English, French, Italian, Polish, Portuguese, Spanish); potential free outputs: operation, pre-alarm, alarm, clearance flow; analogue output “UV intensity”: 0/4...20 mA (switchable).					

* at 400 J/m², transmission 98% at the end of life time