

Water ApS WUVI - Amalgam lamps straight

Water ApS UV-C lamps designated WUVI are doped with a special amalgam which reduces the internal pressure of the mercury vapour. The amalgam means the lamp will give more than twice the power per unit of length produced by a conventional low pressure lamp. WUVI lamps emit radiation mainly of the wavelength 253.7 nm but also 184.9 nm is possible. Therefore three different types of quartz are possible on customer request according to the intended application. Just like conventional low-pressure lamps, amalgam lamps are suitable for use in both air and water. However, the higher operating temperature of the latter must be taken into account in their application. They enable very compact, high-performance equipment to be designed. The fact that they can be used in water at quite high temperatures makes them very popular.



Type	geometry ³		electrical data				UV- power ¹		
	lighting length BL mm	total length GL mm	lamp wattage in W	working current in A	working voltage* in V	Recommend ballast ²	total power W	@ 1m in $\mu\text{W}/\text{cm}^2$	
lamps with D=15 mm									
WUVI 40 4C P 15/ 300	234	300	35	1,2	30	EB-D200 C	10	100	
WUVI 60 4C P 15/ 435	349	435	50	1,5	43	EB-D200 C	15	150	
WUVI 70 4C P 15/ 505	428	505	70	1,5	70	EB-D200 C	20	200	
WUVI 80 4C P 15/ 550	463	550	80	1,5	70	EB-D200 C	22	220	
WUVI 120 4C P 15/ 860	773	860	110	1,5	80	EB-D200 C	35	330	
WUVI 140 4C P 15/1000	913	1000	130	1,5	90	EB-D200 C	45	400	
WUVI 160 4C P 15/1200	1113	1200	150	1,5	100	EB-D200 C	50	430	
WUVI 180 4C P 15/1400	1313	1400	180	1,5	120	EB-D200 C	60	480	
WUVI 201 4C P 15/1554	1467	1554	200	1,5	140	EB-D200 B	72	550	
lamps with D=19 mm									
WUVI 130 4C P 19/ 840	738	840	110	2,0	68	EB-D200 A	43	400	
WUVI 160 4C P 19/1000	898	1000	130	2,0	80	EB-D200 A	52	470	
WUVI 200 4C P 19/1120	1018	1120	170	2,0	90	EB-D200 A	60	520	
WUVI 240 4C P 19/1310	1208	1310	190	2,0	100	EB-D400 C	70	580	
WUVI 260 4C P 19/1554	1452	1554	250	2,0	120	EB-D400 C	82	630	
WUVI 300 4C P 19/2000	1898	2000	265	2,1	150	EB-D400 C	100	670	
lamps with D=25 mm									
WUVI 100 4C P 25/ 550	448	550	100	2,9	35	EB-D400 C	35	340	
WUVI 140 4C P 25/ 880	778	880	145	2,9	50	EB-D400 C	55	510	
WUVI 200 4C P 25/1200	1098	1200	205	2,9	75	EB-D400 B	80	690	
WUVI 300 4C P 25/1500	1398	1500	260	2,9	92	EB-D400 B	110	860	
lamps with D=28, 32 mm									
WUVI 400 4C P 32/1655	1553	1655	360	4,2	88	EB-D400 A	135	1020	

Useful life: 8 - 10000 h, heavily dependent on operating conditions

Guarantee lifetime: 8000 h on the electronic ballast (EPS) with max. 3 switching cycle day,
Average drop in radiation: approx. 35 % after 8000 h

Optimum surface temperature: 130° C measured on the glass surface at the amalgam dot
 Temperatures below 100°C depreciate the efficiency dramatically
 Temperatures above 160°C endanger the lamps

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