

UV disinfection system

LW UVC 90 A-Series LCD

Long-life high-power Certified UV-C systems
for water disinfection

- ✦ Drinking water supply
- ✦ Industrial process water
- ✦ Pharmaceutical and chemical industry
- ✦ Beverage industry and breweries
- ✦ Food industry
- ✦ Hospitals and clinics
- ✦ Pure and ultrapure water disinfection
- ✦ Systems for cold and hot water (legionella prevention)
- ✦ Swimming pool and whirlpool



Features

- ✦ Compact design
- ✦ Electropolished V4A steel chamber designed for an operating pressure of up to 12 bar
- ✦ Sample tap at inlet and outlet
- ✦ Electronic ballast with integrated radiator current measuring loop
- ✦ Selective UV-C intensity monitoring in accordance with DVGW standard worksheet W-294, Ö-Norm 5873-1 with 4-20 mA signal output, LCD display showing absolute UV-C intensity in W/m^2 , operating hours and counter for switch-ons and power failures, potential-free relay contacts for alarm and pre-alarm
- ✦ Remote control option
- ✦ Power failure safe
- ✦ Long-life technology for high-performance radiators
- ✦ High-quality hard quartz
- ✦ Integrated wall mounting plate on irradiation chamber
- ✦ Economical



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Options available at extra cost

- ✦ Flow limitation
- ✦ Flow measurement via pulse or MID
- ✦ Temperature monitoring with shut-off valve
- ✦ Connection screw fitting in V4A 1.4404
- ✦ Shut-off valve
- ✦ Solar power supply or via water turbine

Technical data

Device type:	UV-C A27	UV-C A46	UV-C A90	UV-C A180-F	UV-C A300-F	UV-C A500-F	UV-C A750-F	UV-C A1250-F	Unit
Nominal flow rate at T10 = 98%:									
- Cold water up to 38 °C	2.8	3.	10.2	18.9	26.3	53.4	95.3	145.0	m3/h
Power consumption:	55	80	150	230	265	530	1,060	1,590	Watt
UV-C RED dose at 254 nm:	>400	>400	>400	>400	>400	>400	>400	>400	J/m2
UV ND emitter:	GXL 12/27	GXL 46 AI	GXL 90/140AI	GXL 180AI	GXL 300AI	2*GXL 300AI	4*GXL 300AI	6*GXL 300AI	
- Nominal lamp power	41.0	65.	135	205	238.0	238.0	238.0	238.0	Watt
- UV-C power output at 254 nm	14.3	20.0	43.0	65.0	90.0	90.0	90.0	90.0	Watt
- Approximate service life:	8,700	12,000	12,000	12,000	12,000	12,000	12,000	12,000	h
Temperature range:									
- Water	4 - 38	4 - 38	4 - 38	4 - 38	4 - 38	4 - 38	4 - 38	4 - 38	°C
- Operation Environment	4 - 45	4 - 45	4 - 45	4 - 45	4 - 45	4 - 45	4 - 45	4 - 45	°C
Max. operating pressure:	10	10	10	10	10	10	10	10	bar
Connections without screw connection:	G 1 1/4" AG	G 1 1/2" AG	G 2" AG	DN 65	DN 80	DN 100	DN 125	DN 150	
Connections incl. screw connection:	G 1" AG	G 1 1/4" male	G 1 1/2" male thread	n.A	n.a.	n.a.	n.a.	N/A	
Dimensions:									
- Installation width B (without cover) and depth T	236 x 252	261 x 277	261 x 277	310 x 307	368 x 336	423 x 220	458 x 254	*0 x 305	mm
- Installation width R (with cover) and depth T	330 x 252	357 x 277	365 x 277	n.a	n.a.	n.a	n.a.	n.A.	mm
- Wall distance on pipe axis A	72	84	84	90	104	n/a	n.a.	n.a.	mm
- Height of inlet and outlet L	733	337	734	970	957	931	906	877	mm
- Required floor clearance H1	130	170	170	125	130	140	150	165	mm
- Required maintenance height H2	938	937	965	1,273	1,280	1,290	1,240	1,315	mm
- Room height H3	1,801	1,444	1,869	2,368	2,367	2,361	2,296	2,357	mm
- Required wall clearance W	250	250	250	250	250	250	250	250	mm
- Control cabinet	incl.	incl.	incl.	incl.	incl.	400*600*200	400*600*270	400*600*270	mm
- Chamber type	G-4-800	G-5-400	G-5-800	G-6-1000-F	G-7-1000-F	G-9-1000-F	G-10-1000-F	G-12-1000-F	
Weight:									
- Irradiation chamber	9.1	8.8	11.9	17.8	25.5	38.0	40.0	85.0	kg
- Control	3.0	4.0	4.0	4.2	4.2	21.0	24.0	26.0	kg
Protection class	IP 65	IP 65	IP 65	IP 65	IP 65	IP 54	IP 54	IP 54	
Materials:									
- Irradiation chamber	1.4404	1.4404	1.4404	1.4404	1.4404	1.4404	1.4404	1.4404	
- Control	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Coated steel	Coated steel	Coated steel	

Subject to technical changes and data

* Only U version available

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Dimensions

