

ASUV

27-1250

Certified water disinfection

STERIL SYSTEMS¹

The certified AQUASTERA/AquaUVtron water disinfection system uses UV-C technology to provide reliable drinking water disinfection – without changing the original properties of the water.

Applications

Drinking water supply in public and commercial sectors | Hospitals and clinics | Food industry | Clean and ultra-pure water disinfection | Industrial process water | Cold and hot water systems | Pharmaceutical and chemical industry | beverage industry | Swimming and whirlpools



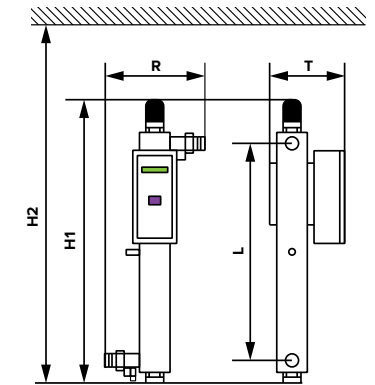
Function UV-C disinfection reduces pathogenic germs in the water by 99.99 %, without the use of chemicals. The disinfection process is entirely physical – pH level, color and mineral content, taste and odor remain completely unchanged! The AQUASTERA/AquaUVtron disinfection system works at a dose of 400J/m² – as verified by biometric testing and certified by the ÖVGW and DVGW.

Equipment Compact AISI316 stainless steel housing, electropolished; hard quartz protective tube; high-performance emitters designed for up to 12,000 operating hours; operating pressure up to 12 bar; emitter monitoring; selective UV-C intensity monitoring in accordance with DVGW/ÖVGW and certification; LCD with display of

absolutely UV-C intensity in W/m² rel. in %; operating hours and dose in J/m²; potential-free signaling contacts for alarm and pre-alarm 4-20 mA; output to activate a throw valve; remote switching contact

Assembly/maintenance Complete assembly manual; very simple operation; integrated wall mounting plate

Options Temperature monitoring available with PT100 throw valve; shut-off valve, alarm signal transmission via cable or wireless; TFT touch screen with data logger; spectrometer probe for continuous quality monitoring; UV-transmission with 254nm, FNU turbidity, coloration



Technical data

DEVICE TYPE DVGW AQUASTERA	ASUV27	ASUV46	ASUV90	ASUV180-F	ASUV300-F	ASUV500-F	ASUV750-F	ASUV1250-F	UNIT
DEVICE TYPE ÖVGW AQUAUVTRON	A27	A46	A90	A180-F	300-F	A500-F	A750F	A1250-F	UNIT
Nom. flow at T10 = 98%									
Cold water to 38 °C	2.8	3.7	10.2	18.9	26.3	53.4	95.3	140.2	m3/h
Hot water to 65 °C	n.a.	3.5	7.5	10	19	32	50	97	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
Rated emitter power	41	65	135	205	238	238	238	238	Watt
Number of emitters	1	1	1	1	1	2	4	6	pieces
UV-C power output at 254 nm	14.3	20	43	65	90	90	90	90	Watt
Service life approx.	8,700	12,000	12,000	12,000	12,000	12,000	12,000	12,000	h
Temperature range									
Water	4 – 38	4 – 65	4 – 65	4 – 65	4 – 65	4 – 65	4 – 65	4 – 65	°C
Operating environment	4 – 45	4 – 45	4 – 45	4 – 45	4 – 45	4 – 45	4 – 45	4 – 45	°C
Max. operating pressure	12	12	12	12	12	12	12	12	bar
Connections without screw-fitting	R 1 1/4" ET	R 1 1/2" ET	R 2" ET	DN 65	DN 80	DN 100	DN 125	DN 150	
Connections incl. screw-fitting	R 1" ET	R 1 1/4" ET	R 1 1/2" ET	n.A	n.A	n.A	n.A	n.A	
Dimensions									
Installed width R (w/o. ver.) and depth D	236 × 244	261 × 269	261 × 269	360 × 295	369 × 339	423 × 219	458 × 254	509 × 305	mm
Installed width R (w. ver.) and depth D	320 × 244	353 × 269	381 × 269	n.A	n.A	n.A	n.A	n.A	mm
Intake and outlet height L	733	337	734	970	957	931	906	877	mm
Installed height H1	925	533	942	1,198	1,198	1,198	1,198	1,198	mm
Room height H2	1,775	991	1,810	2,251	2,251	2,251	2,251	2,251	mm
Rec. Maintenance height H3	850	458	868	1,053	1,053	1,053	1,053	1,053	mm
Chamber type	G-4-800	G-5-400	G-5-800	G6-1000-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	40	85	kg
Control unit	2.2	2.4	2.4	3	4.1	12	14	20	kg
Protective class	IP65	IP65	IP65	IP65	IP65	IP 54	IP 54	IP 54	
Materials									
Irradiation chamber	1.4404 AISI316	1.4404 AISI316	1.4404 AISI316	1.4404 AISI316	1.4404 AISI316	1.4404 AISI316	1.4404 AISI316	1.4404 AISI316	
Control unit	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Coated steel	Coated steel	Coated steel	