

UV LAMP



DESCRIPTION OF ADDITIONAL EQUIPMENT

UV lamp (UV) is a device in which a special lamp is placed which emits intense UV radiation when lit. Water is pumped through the unit where it is exposed to ultraviolet radiation which is deadly in large doses to most organisms and is used to destroy algae, parasites, fungi, viruses, yeasts and bacteria in water.



WHAT IS ULTRAVIOLET RADIATION?

Ultraviolet radiation is electromagnetic radiation with a wavelength shorter than that of visible light but longer than that of X-rays (wavelength 10-400 nm). Ultraviolet radiation is composed of 3 components: UVA, UVB, UVC. UV radiation causes a photochemical reaction in DNA and it is impossible for cells to multiply their metabolism and organisms to be killed. Every organism is differently sensitive to radiation. The sensitivity of organisms to UV radiation affects not only their species but also the physiological state and properties of the environment. The UV sterilizer does not change the composition of water and it does not emit any harmful chemicals.



MAINTENANCE SCHEDULE

	2-3 months	6 months	12 months
Pipelines	Cleaning, inspection		
Gasket	Cleaning, lubrication		
Fluorescent lamp			Replacement 8000 hours
Tube		Cleaning, inspection	



TECHNICAL PARAMETERS

WWTP size [PE]	5 - 20	30 - 80	100 - 500
UV lamp type	VITRONIC	UVC 11 W	UVC 24 W
Length [mm]	33 x 12 x 10	53 x 19 x 13	66 x 16 x 13
Fluorescent lamp lifetime [hours]	8000 operating hours		
Voltage [V]	230V/50Hz		
Weight [kg]	1,3	2,2	2,4
Type of radiation	UVC (VDE eyes safety)		