



**The Clear Choice**  
Water Filtration Systems

[www.aquafilter.com](http://www.aquafilter.com)

# FUV-P4W\_K

## UV lamp

### General Description:

**AQUAFILTER FUV-P4W** lamp is an effective way to deal with various microorganisms which can be found in water. Radiation emitted by this lamp effectively kills microorganisms.

The best performance (germicidal effects) is obtained at approx. 254 nm wavelength and with the intensity ranging from 3000 do 20000 mW\*sec/cm<sup>2</sup>. The primary mechanism by which UV inactivates microorganisms is the creation of pyrimidine dimers on the same DNA or RNA strand.

Once the dimers are formed the microorganisms are unable to reproduce. Another mechanism is a disruption of cell wall and therefore destruction of an entire microorganism.

The effectiveness of disinfection depends on the percent of UV radiation that might be absorbed by the a cell of microorganism. The degree of microorganism destruction or inactivation depends on various factors: time of exposure to the UV light, intensity, type of microorganism and water turbidity.

One of the main advantages of UV light is that it does not change natural physicochemical features of water. Undercounter systems, which are equipped with a UV lamp, filters out 100% of water input (100% of treated water - no recoil).

In addition, provide zero rejection factor - almost 100% of inlet water undergoes purification process and is suitable for consumption. **FUV-P4W** utilizes Phillips filament (4W). It is designed to work with undercounter water filtration systems and reverse osmosis systems.



### Features:

- 99.9% effectiveness in water disinfection
- Approximately 12 months of UV lamp filament vitality
- Filtration without altering the physico-chemical water composition
- Longevity of UV light bulb is to 8000 working hours (approx. 1 year)
- No change to chemical and physical composition of water



**P4-GT\_K**  
UV light bulb for  
FOV-P4W\_K lamp



