

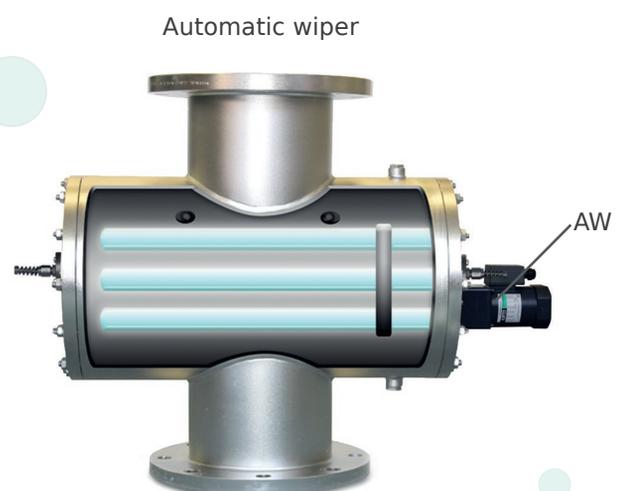
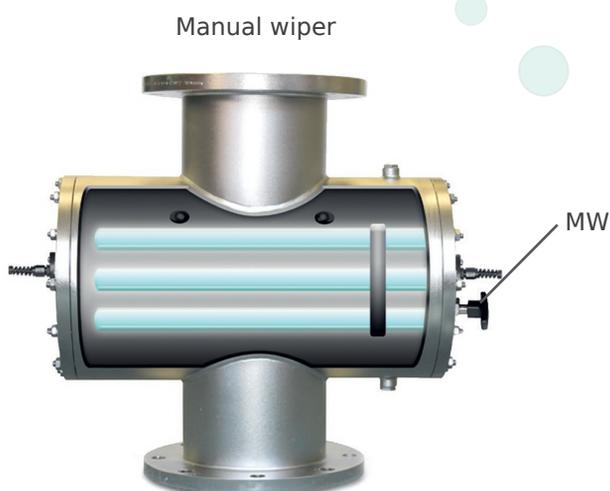
AUTOMATED  
WIPER SAVES  
YOU ON YOUR  
OPERATING  
COSTS

UV RADIATION  
EFFICIENCY

## WHY IS IT USEFUL TO HAVE A WIPER

The surface of the quartz envelope covering the UV lamp is getting covered by dirt (iron, manganese, organic particles, proteins, etc.) during operation and due to this UV dose needed for water treatment is decreasing. To keep the same UV dose and to secure the same water disinfection level it is necessary to increase UV power that cost money. That is the reason it is necessary to periodically clean the surface of the quartz envelope to keep maximum UV dose for water treatment. Frequency of cleaning depends on water quality. Surface of quartz envelope can be cleaned manually - first you must remove quartz envelope from UV reactor and then you can clean surface simply by cloth. So there is no wiper, either manually or automatic, and recommended for private pools.

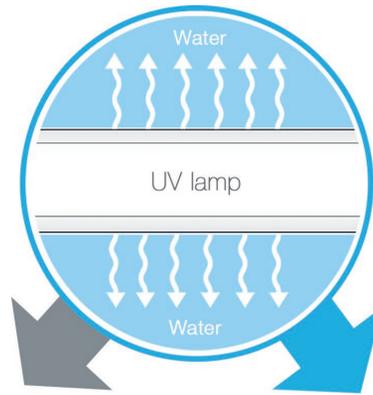
UV reactor can be equipped with a wiper system. There are two wiper systems. One is manual, in this case the wiper is operated by hand and the second option is an automatic wiper, in this case the wiper is operated fully automatically by means of electric motor. The cleaning frequency can be simply changed according to water quality. We recommend to use automatic wiper for public pools and spa, drinking and waste water plant's as this system ensures the most efficient utilization of generated UV rays and thus this automatic wiper saves your operating costs.



### LAMP WITHOUT WIPER

Layer of impurities gradually absorbs UV rays. Water is not treated anymore!

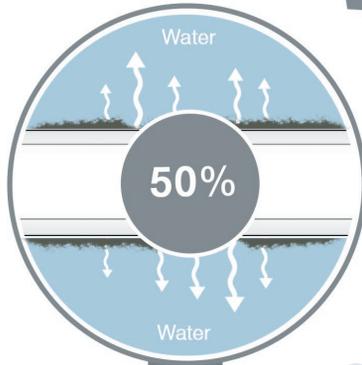
Due to high temperatures impurities accumulate on quartz sleeve.



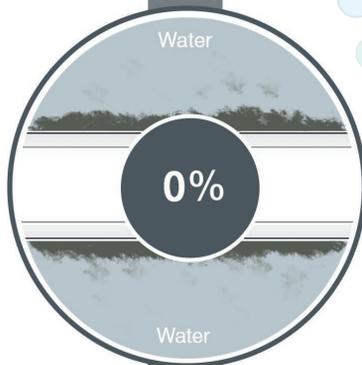
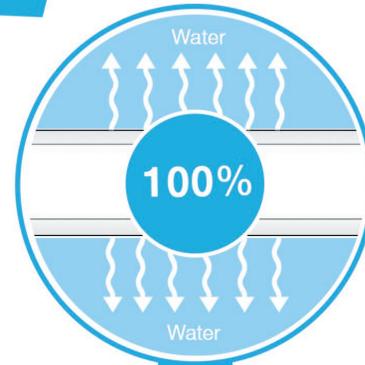
### LAMP WITH WIPER

Regular wiping of impurities ensures 100% usage of UV rays.

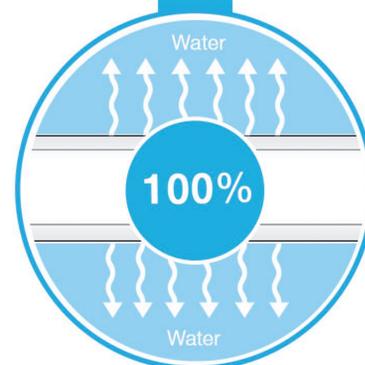
UV rays are cleaning pool water.



Condition in several days



Condition in several weeks



**WATER IS NOT TREATED, BUT HEATED ONLY.**

Impurities cause energy loss.

**WATER IS 100% CLEANED EVEN AFTER LONG TIME.**

Without energy loss.

*LIFETECH, the leading manufacturer of ozone and UV systems*

**LIFETECH has its own development department and long-term collaboration with reputable companies and universities in Germany, Holland, France, the UK, Switzerland, the USA and the Czech Republic for development of new equipment and technology. Our clients can therefore enjoy professional and state-of-the-art products and technologies.**

**LIFETECH manufactures its own** ozone generators with an output range from milligrams to tens of kg O<sub>3</sub>/h and UV systems that are equipped with low or medium pressure UV lamps. The products are used for drinking, for process or waste water treatment, for water recycling, for treatment of water in swimming pools, for air disinfection and deodorization and for other applications in the private and public sectors.

**LIFETECH** - Confidence acquired through quality and fair play

