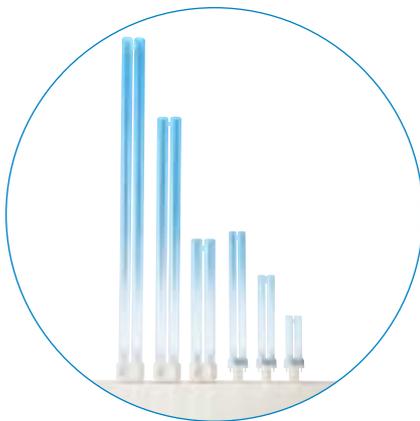




## Keep your pond clean and healthy with Philips TUV lamps

Create a healthy ecosystem in your pond

- Without chemicals
- No floating algae
- No harmful bacteria
- No risk of germs spreading
- Healthy fish
- Wonderful aquatic plants
- Crystal-clear water



# PHILIPS

# Why use UV in your pond?

Your pond is a beautiful and interesting area of nature that makes your garden extra special.

But how can you keep your pond clean and healthy? If a lot of sunlight enters the pond and it also contains fish, the water will often turn green. The cloudy water will then prevent the fish and plants from getting enough light. The result is that they are unable to develop properly.

A clean pond within 14 days



And you will no longer be able to see the special flora and fauna in your pond.

Using the Philips TUV lamps this problem of cloudy water can be solved quickly and easily. Thanks to the powerful UV-C radiation generated by these lamps, the floating algae stick together and bacteria and germs are not even given a chance.

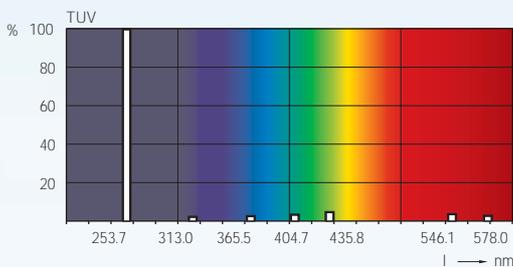
Within the space of a fortnight the water in your pond will be crystal clear again. You will be able to see right down to the bottom of the pond and the aquatic plants will flourish like never before.

# What is UV?

The solar spectrum is made up of three parts:

- Infrared: heat, clearly noticeable on a fine summer's day.
- Light: the visible part of the solar spectrum, which in turn is made up of all colours of the rainbow.

- Ultraviolet: UV radiation is very powerful and, amongst other things, causes the skin to tan. Short-wave UV-C radiation contains so much energy that it can kill bacteria. UV-C radiation is absorbed by the ozone layer surrounding the earth.



# Why choose Philips TUV lamps?

Philips TUV PL-S and PL-L lamps are based on TL technology. UV-C radiation is generated in the lamps. Philips TUV lamps are produced using a glass specially developed and produced by Philips that allows this UV-C radiation to pass through.

The Philips TUV lamps generate UV-C radiation of 185 nm and 253.7 nm. The 253.7 nm wavelength that kills bacteria is allowed to pass through the TUV glass. The ozone-forming 185 nm wavelength is absorbed by the Philips TUV glass. This means that Philips TUV lamps do not produce ozone.

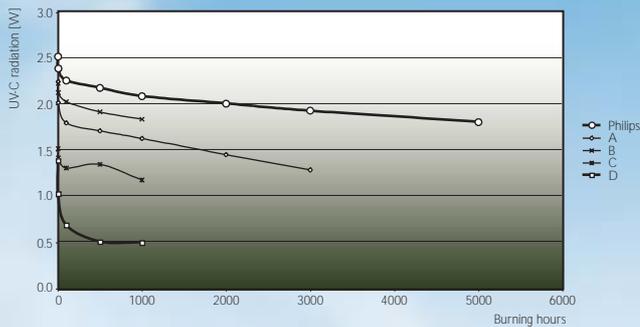
There is a protective coating on the inside of the Philips TUV glass. This ensures that the UV-C radiation from a Philips TUV lamp barely decreases throughout the long lifetime. The graph below shows that the UV-C output from Philips TUV PL-S lamps remains almost constant, which is not the case for the lamps from other brands that are currently available on the market.

# Proven durability of Philips TUV PL-S lamps

Philips TUV lamps are also used for purifying drinking water, removing bacteria from the air and keeping ponds free of algae. As the largest lamp manufacturer in the world, Philips is renowned for innovation, efficiency and high quality.

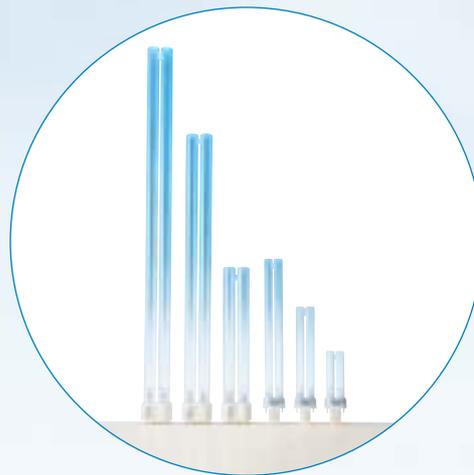
Of course, any TUV PL-S or TUV PL-L lamps that do not bear the Philips name will certainly not be of Philips' high quality. As shown in the graph, Philips' high quality is unique – no other lamp brands can match this level of quality.

Competitor analysis TUV PL-S 9W



Philips offers a compact solution to help keep your pond water clear. This comprises TUV PL-S and TUV PL-L lamps, for which there are a variety of appliances on the market. Thanks to the long lifetime you only need to replace a Philips TUV lamp once a year – at the start of the gardening season.

With Philips TUV lamps you are choosing exceptionally high quality. The average lifetime is 8000 burning hours, which is considerably higher than that of other brands.



*A healthy ecosystem in your pond quickly and simply with Philips TUV lamps.*



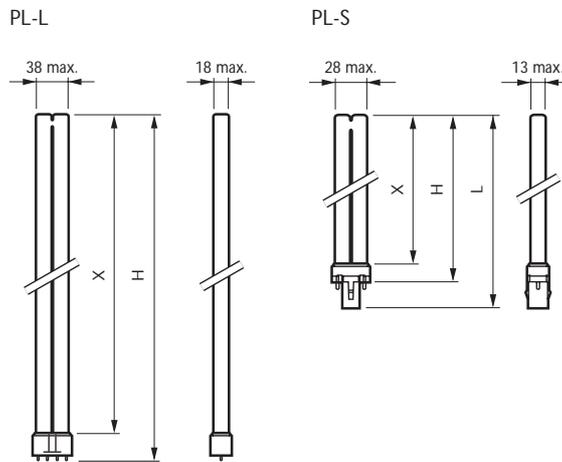
# The dimensions of Philips TUV lamps

	UV-C radiation *	Lifetime	UV-C radiation	Maximum	EOC
	W	in hours	after 5.000 hours	pond capacity	
TUV PL-S 5W	1,1	8.000	80%	2.500 litres	642486
TUV PL-S 9W	2,3	8.000	85%	7.000 litres	618245
TUV PL-S 11W	3,4	8.000	85%	10.000 litres	624888
TUV PL-L 18W	4,7	8.000	85%	20.000 litres	624925
TUV PL-L 36 W	10,9	8.000	85%	35.000 litres	628787
TUV PL-L 55W HF	19,4	8.000	85%	55.000 litres	633798

Type	X max.	H max.
Cap/base 2G11		
TUV PL-L 18W	195	225
TUV PL-L 36W	385	415
TUV PL-L 55W HF	505	535

Type	X max.	H max.	L max.
Cap/base G23			
TUV PL-S 5W	67	83	105
TUV PL-S 9W	129	145	167
TUV PL-S 11W	198	214	236

Dimensions in mm



## Note the quality guarantee!

TUV lamps of the types PL-L and PL-S are only produced by Philips. If the Philips brand name is marked on the TUV lamp, then you can be sure that it is of Philips quality!

If this brand name does not appear on the lamp, then the lamp has not been produced by Philips.

\*N.B.

The UV-C radiation from these lamps is indicated by means of the following warning symbol: Radiation from these lamps can cause damage to the eyes and skin. Installations using these lamps must therefore be shielded fully.



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