



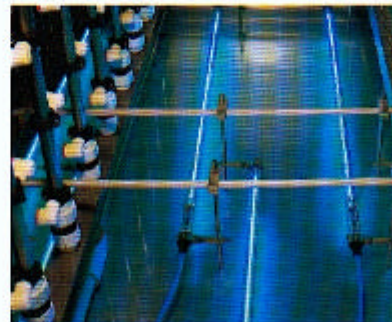
## Fast, naturally effective: BlueLight® UV Immersion Lamps

Viruses, Bacteria, Fungi or Spores are an ever-present danger as they grow and multiply in water which is stored in Air-Conditioning systems, Tanks, Barrels or Cisterns. They become a health risk when this water is used in factories or in the home.

UVC Radiation at 254 nm kills these germs and prevents them spreading. Depending on the size of the water container, a continuous or only periodic irradiation with a 12, 15, or 30 Watt UV immersion lamp is sufficient to disinfect the water supply.

UVC Radiation at 254 nm has a high germicidal efficiency, killing germs directly in water, on surfaces or in the air. Here, the UVC radiation is absorbed in the nucleus of the cell of the micro-organism thereby disrupting its metabolism and reproduction.

Disinfection by means of UV radiation requires the use of no chemicals so that the treated water and the air remain free from chemical traces. There is no effect on the taste or on the environment and no unpleasant side-effects or smell.

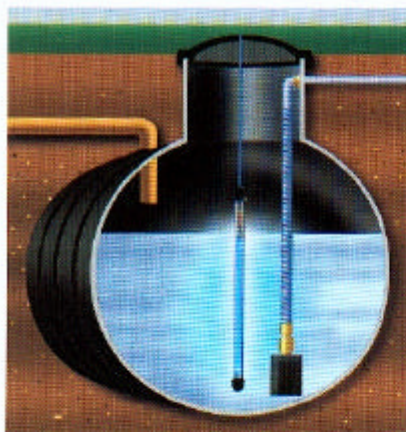


Disinfection of water in air washers of air-conditioning systems

Heraeus has been making these lamps ever since the first UV quartz lamp was developed. UV radiation has been used for some 70 years for the disinfection of water especially in the supply to households of

groundwater and it is increasingly employed in Water Works. In addition, there are a variety of uses in Industry generally, but especially in the Food Industry.

**BlueLight®**  
**UV Immersion Lamps**  
**Typical Installation**



UV Immersion Lamps keep Water in Tanks germ-free

**Immediately installable and usable**

BlueLight Immersion Lamps are ready-to-use systems and can be quickly and simply installed. The Immersion lamp consists of a UV-emitting low pressure lamp together with a starter, sealed into a water-tight protective quartz tube and fitted with a 5m long lead. It is designed according to IP 68. The lamps may be used directly in the water in either a vertical or horizontal position. No separate cooling of the lamps is necessary as the low pressure

lamps run at only around 40 degrees C. The effective penetration depth of the UVC radiation in clear water is 30 to 50 cms. Depending on the length of the immersion lamp, a cylindrical volume 60 to 100 cms in diameter and 20 to 80 cms long can be disinfected in a few minutes.

**Diverse Installations**

Water, Air and Surfaces. BlueLight UV Immersion Lamps are versatile in their fight against germs.

<b>Disinfection of Water, Air and Surfaces</b>	
▲ Water	Disinfection of Water, Rainwater, Drinking Water in Containers, Tanks, open Streams, small Wells and Cisterns and Prevention against Algae
▲ Air/Water zones	Disinfection of Water in Air washers of Air Conditioning systems, of Air in water sprayed areas
▲ Surfaces	Disinfection of Tanks before filling Protection against germ build-up on Surfaces, e.g. on lacquers without solvents

**BlueLight®**  
**UV Immersion Lamps**  
**Advantages at a glance**

- ▲ Simple handling, fast and electrically safe to install
- ▲ A modern, effective and natural method without chemicals
- ▲ No chemicals in the water = no waste products, no residues
- ▲ No chemicals in the air = no unpleasant smell
- ▲ No heating of the medium to be disinfected
- ▲ No build up of a resistance by the germs
- ▲ Long service intervals, simple to clean
- ▲ Minimal running costs due to low power consumption, long life and low maintenance costs

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**UV Immersion Lamps**  
**Technical Data**

	<b>UV Immersion Lamp TNN 12/20</b>	<b>UV Immersion Lamp TNN 15/35</b>	<b>UV Immersion Lamp TNN 30/80</b>
Order No.	45002297	56001605	56001606
Power	12 W (77 VA)	15 W (77 VA)	30 W (77 VA)
Built-in Length	400 mm	550 mm	1040 mm
Light Length	200 mm	350 mm	800 mm
Protection Tube Ø	25 mm	25 mm	25 mm
Connection Lead	2 m	5 m	5 m
Starter	15 Watt	15 Watt	30 Watt
Useful Life	8000 hrs	8000 hrs	8000 hrs
Water Temperature	5–30 °C	5–30 °C	5–30 °C



**Safety Instruction**

UVC Radiation is harmful to the skin and eyes. The UVC Lamp should therefore only be operated in closed containers or under equivalent safety measures. Do not look at UV radiation without protecting your eyes

and cover the parts of your body exposed to UV radiation. UV radiation at 254 nm can be shielded using normal glass, transparent synthetic materials such as Macrolon and all non-transparent materials.

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