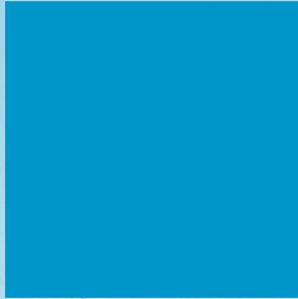




WWW.DINIES.COM



Dinies . . . . .



# UV-C DUCT PURIFIER

DISINFECTION OF HVAC SYSTEMS

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The Dinies Technologies GmbH company is a medium-sized, innovative family-owned company of UV technology and electronics manufacturing, which does not shy away from investing in new, revolutionary methods and technologies.



# COMPETENT ■■■■■ RELIABLE ■■■■■ INNOVATIVE

Since our foundation in 1979, it has been important to us to supply our customers with everything from a single source. In 2005, the two main pillars, electronic production UV technology, were further expanded.

„ IN PARTICULAR, NEW TECHNOLOGIES AND FIELDS OF APPLICATION IN UV-TECHNOLOGY OFFER GOOD BASIS FOR AN INNOVATIVE COMPANY POLICY.“

Dinies Technologies GmbH is DIN EN ISO 9001 certified and is constantly monitored and audited by its customers to ensure its effectiveness, to meet their high quality requirements.

In addition, internal audits carried out by external auditors guarantee a high standard of quality and efficiency in quality management.

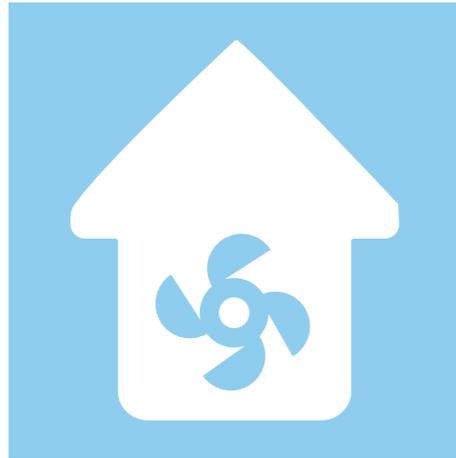
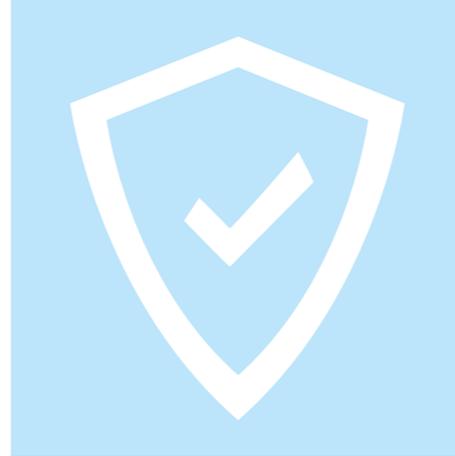
# GERM-FREE AIR

UV-C light can be used as a disinfection method in HVAC systems to purify the air and control fungal growth in hard-to-reach places.

Without chemicals



Protection against bacteria and germs



Disinfection in air duct



According to HACCP & VDI 6022



The disinfection of air conditioning and ventilation systems with UV-C light not only leads to less pollution inside the ducts, but also ensures better air quality.

Benefits:

- Plug & Play system
- Easy lamp replacement
- UV-C light can be combined with ozone for odor neutralization
- Low operating and maintenance costs
- Efficient and robust construction for high reflectance with polished stainless steel



# PARTICULARITIES

Control system:

- Convenient control and monitoring of the lamps
- Measurements of UV-C power and air flow
- Monitoring of the operating hours
- Checking the lifetime of the lamps
- Previously defined deviations can be transmitted acoustically and visually via SMS or email with a warning function



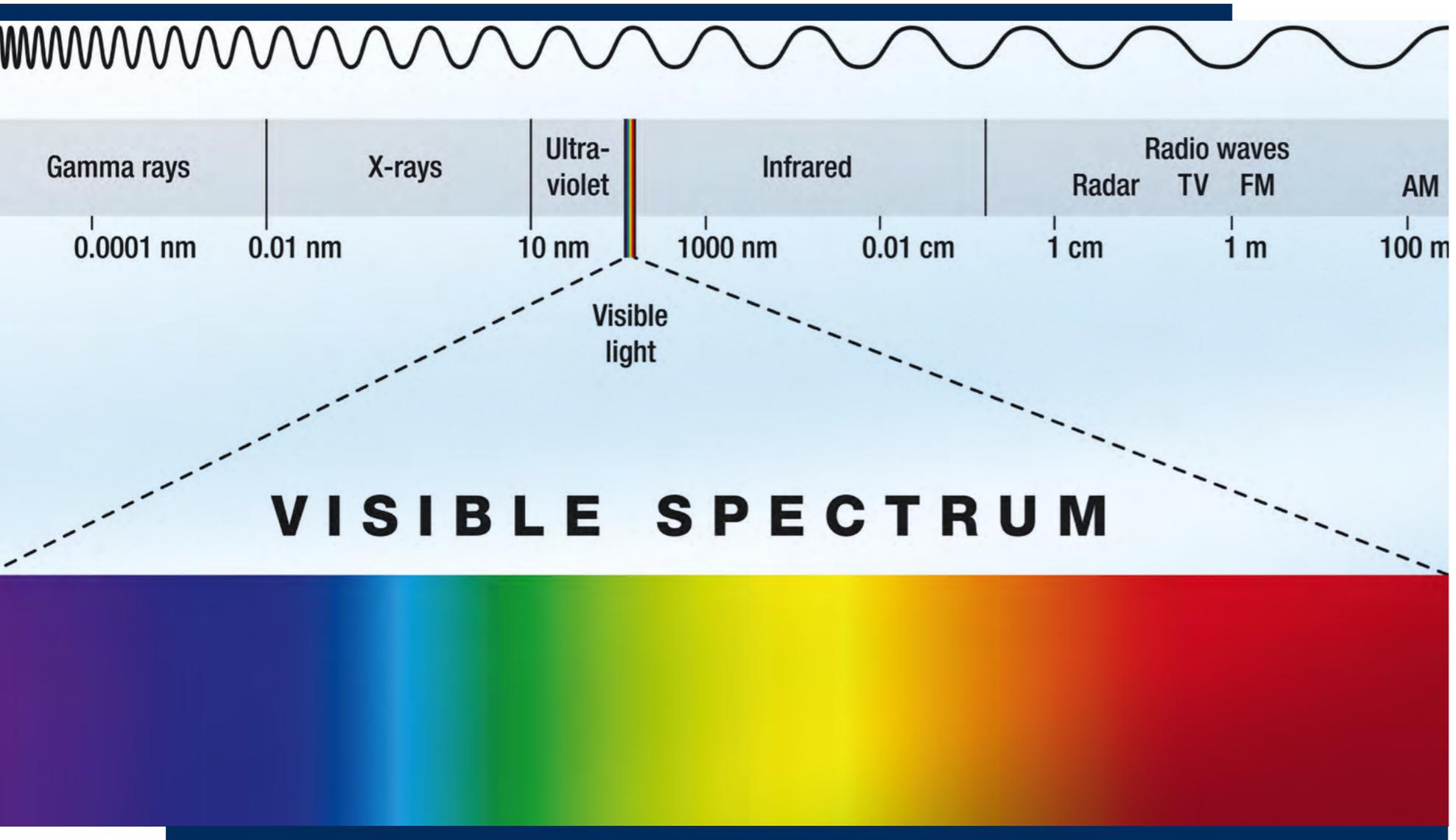
AUTOMATIC  
DISINFECTION  
WITH UV-C  
LIGHT  
IN THE AIR DUCT ELIMINATES  
BACTERIA AND VIRUSES  
UP TO 100%



- Hotel & gastronomy
- Food industry
- Office buildings
- Laboratory & Research
- Public buildings
- Healthcare
- Event industry
- Universities & Schools

## 2 AREA OF APPLICATION





## VISIBLE SPECTRUM

3

## UV-C LIGHT

Effective hygiene with UV-C! Microorganisms exposed to natural sunlight will be killed in a natural way. According to this principle from nature, artificial UV-C light was developed many years ago.

UV-C light is short-wave radiation in the range of 280-100nm which is not visible to the human eye. In the area of 254nm, UV-C light has a strong germicidal effect, so even dangerous germs, bacteria, viruses and mould spores will be destroyed within a short time without the use of chemicals.

The DNA of the microorganisms is changed in the core so that reproduction is no longer possible. This has the consequence that the microorganisms die. The ultraviolet light is therefore an economical and environmentally friendly alternative to chemical disinfection.



Ozone is a highly effective disinfectant for the sustainable elimination of unpleasant smells and hazardous microorganisms.

Derived from processes in nature UV-C light is created in a controlled way, which in conjunction with oxygen produces ozone. Odour molecules are broken down and removed completely. Microorganisms present are destroyed by the treatment in the core.

A great advantage of ozone treatment is that odour neutralization and disinfection is carried out without the use of chemicals. Any residual ozone decomposes back to oxygen.

The bactericidal effect of ozone is reported in literature at 1.5 to 4.9ppm.

## 4 OZONE

