

The SGL System enables you to grow and maintain a high quality natural grass sports playing surface under any circumstances and with any playing schedule. The system consists of a wide range of unique tools that optimize the growing conditions of your grass playing surface, whether it is a pitch, a court or a green. Individually these tools offer you solutions for specific turf grass challenges, together they form a complete grass management system. Our goal is to help you achieve your desired grass quality and make your pitch a profit centre.



#### Lighting

Grow lights help you grow grass and achieve a consistent and healthy grass coverage across the entire surface throughout the entire year and to recover high wear areas quickly and strongly.



#### ASSIST

SGL ASSIST offers personal agronomical support. Receive advanced analyses, accurate forecasts, weekly reports and applicable advice.



#### Monitoring

Be in control 24/7. Monitor and analyse all growth conditions and make calculated decisions based on live, customized data measured by our Grass Monitoring tools.



#### Grass Care

Grass Care tools help you create healthy growing circumstances for the grass plant, by reducing plant stress in summer, controlling diseases and by creating air circulation.

# SGL

WE HELP YOU WIN THE GAME



# SGL

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## UVC180

### BIOLOGICAL DISEASE CONTROL

# WE HELP YOU WIN THE GAME

## UVC180

The UVC180 offers a biological solution for fungal disease treatment on natural grass sports playing surfaces, by means of UV-C light. The compact, walk behind machine allows for easy and structural treatment of any green, pitch or field.

The UV-C light destroys the DNA of active growing fungi, which prevents the fungi from reproducing. As a result the fungi dies before it causes any damage to your turfgrass. This decreases the disease pressure of your playing surface and diminishes the chance of disease outbreaks. Because grass cells are much more resistant to UV-C light than fungal cells, the amount of UV-C light radiated by the UVC180 is high enough to kill the fungal cells, while the grass plant is not affected.

## Benefits

- Biological and sustainable fungus treatment
- Treats many different species of turfgrass fungal diseases
- Compact and lightweight machine
- Advanced disease forecast
- No license required for operation

## When and how often to use the UVC180?

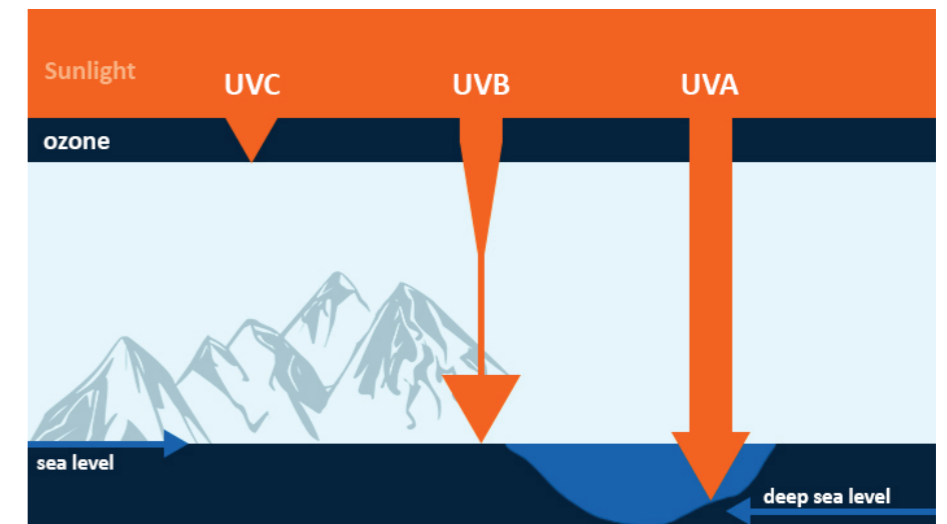
The required frequency of UVC180 treatment depends on the disease pressure. We calculate the pressure of many different fungi for your specific playing surface, based on local weather forecasts and - when available - growth data from the SGL Grass Monitoring tools. An accurate disease forecast is then shown on your personal online portal, together with the required frequency of UVC180 usage.

## Operation

Because of its compact design the UVC180 has a small turning circle, is very easy to manoeuvre and takes up minimal storage space. It has a lighting surface of 1.80 meters wide and the built-in foam mechanism marks the treated areas to guide the operator and to ensure the entire surface is treated. The UV-C lights operate at the optimal distance from the grass to achieve the most effective fungus treatment and to secure safety for both the grass and the groundsman. Treatment takes approximately 2.5 hours per hectare.

## What is UV-C light?

The sun emits radiation of different wavelengths. Some of the radiation is visible to the human eye, such as the light that is making up the colours of rainbow. The part of radiation beyond the violet end of visible light is called Ultraviolet (UV) radiation which our eyes cannot see, because it has a shorter wavelength and higher frequency than the light our brain perceives as images. UV radiation is made up of three types of rays: UV-A, UV-B and UV-C.



- A UV-A light** has the longest wavelength and penetrates the ozone layer and reaches the earth. It is the least harmful UV light and is more commonly known as “black light”.
- B UV-B light** causes sunburns with prolonged exposure along with increasing the risk of skin cancer. About 95% of all UV-B light is absorbed by the ozone in Earth’s atmosphere.
- C UV-C light** is very harmful to living things, which is why it is commonly used as a disinfectant in food, air, and water to kill microorganism. UV-C is completely absorbed by Earth’s atmosphere.

