



*Professional system for the maintenance  
of turf and grass growth*



*Guaranteed Italian quality, the most competitive system*

## HPL grow light systems. Our master class

An innovative and patented system of artificial lighting, designed to improve the growth of natural and mixed-synthetic grass in football stadiums and playgrounds in general. It is in fact a new modular structure, designed and made entirely in Italy, composed of moveable gantry made of high quality and light materials and equipped with phyto-stimulants lights, capable of emitting a homogeneous light with spectrum between 400 and 700nm, which is useful to improve the natural photosynthesis process of the turf and maintain constant vital values, in particular for periods of low sunlight irradiance (late winter, autumn, early spring) and in case of shadowing problems. The system can also provides a turf heating that favors the increase of ground temperature during the coldest periods.

The structures were designed to combine a good dimensional stability and resistance to weathering with high lightness, which facilitates the handling on and off the pitch and greatly decrease the footprint.

Each HPL module is equipped with sensors and onboard computer with touchscreen display, for climate parameters control and working cycles, as well as data sending and internet remote consultation. It's also possible to activate the ECONOMY function, that allows to save energy in case weather conditions are suitable.

## Wide-area grow light systems

These modules are indicated for large areas treatment (260-360sqm) and they are equipped with opening/closing mechanism, that allows to easily compact the machine, reducing the clutter to a minimum useful to be able to easily transport the module outside the pitch and store it in rest areas.

## Small-area grow light systems

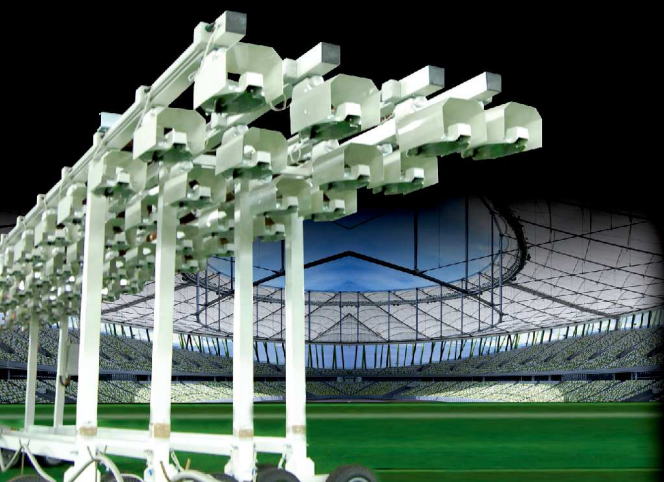
These are single modules composed by a movable gantry for the localized treatment of small areas with more severe problems (ex.: near soccer goals, green areas). Also this module is characterized by a great lightness that facilitates handling and high standards of quality and efficiency.

## Cooling and ventilation systems

These systems are very useful in the summer months or in the hottest areas to lower temperatures inside closed stadiums and on the turf surface. Very useful for preventing diseases and increasing the quality of the turf

## Radiant covers

Designed to allow the penetration of air and water, the radiant sheet is very useful for increasing germination and for protecting the field from ice and external agents. Thanks to the robustness and lightness properties it is very easy to apply and remove. It can be requested in various sizes for application on portions of the field or even for covering the whole field. It is also very useful when coupled with artificial turf lighting systems.



## What are the advantages of buying HPL modules?

- Improvement and maintenance of turf even in the toughest conditions
- Very light, the footprint is significantly reduced
- Easy positioning, use and storage
- Entirely made in Italy with high quality and efficiency standards
- The most competitive system on the market
- Fast and reliable technical support
- Real-time climate parameters and working cycles control (thru optional Connection-Box that can be supplied separately)

## Warranty terms

HPL modules are guaranteed for one year (extendable), with immediate replacement of the faulty components with regard to:

- Mechanical defects.
- Lights fixtures and power sources.
- Electrical parts

## Technical features of main products

### HPL 340

Module composed by 4 rows of lamps

Length x Height: 12,42 x 2,43 m

Retracted width: 2,30 m

Open form width: 16,80 m

Treated area: 340 mq

HPS light source with Philips Green Power bulbs

Theoretical consumption: 58 KW/h

PAR: 317  $\mu\text{Mol}/\text{m}^2/\text{s}$

Supply voltage: 380V

Electrical connection required: n.2 63A socket

### HPL 52

Module composed by 1 row of lamps

Length x Width x Height: 10,3 x 1,4 x 1,95 m

Treated area: 52 mq

HPS light source with Philips Green Power bulbs

Theoretical consumption: 14,5 KW/h

PAR: 355  $\mu\text{Mol}/\text{m}^2/\text{s}$

Supply voltage: 380V

Electrical connection required: n.1 63A socket

### HPL LED260

Module composed by 8 rows of LED boards

Length x Height: 12 x 2.5 m

Retracted width: 2,40 m

Open form width: 14,70 m

Treated area: 260 mq

Photon flux ratio: 102%

LED light source with optimized spectrum

PAR: 365  $\mu\text{Mol}/\text{m}^2/\text{s}$

Theoretical consumption: 33,80 KW/h

PAR: 313  $\mu\text{Mol}/\text{m}^2/\text{s}$

Supply voltage: 380V

Electrical connection required: n.1 63A socket

## Installed devices on all models

- Fuses
- Circuit breaker
- Earth leakage circuit breaker (life-saving)
- Onboard computer with 5" touchscreen display
- 63A M/F socket for easy-connection with other modules (only for Wide-area grow light systems)

## Consulting service

We can provide the customer with a study, based on the climatic parameters, the positioning of the structure and the sporting commitments, which indicates the amount of natural and artificial light necessary to keep the turf in optimal conditions.

We can also provide agronomic advice to accurately establish how to use machinery, products and fertilizers useful for improving the quality of the grass and for the treatment of diseases or problematic areas of the field.

## WEB HPL portal access

By accessing the WEB HPL portal you can at any time monitor the use of all the HPL modules positioned in the field, check the climatic parameters, and view the useful suggestions for optimizing the use of the modules and for improving and maintaining conditions of the turf.

Through the pitch camera that can be requested by the customer, it is also possible to view the field in real time with high quality images and check the health of the grass.

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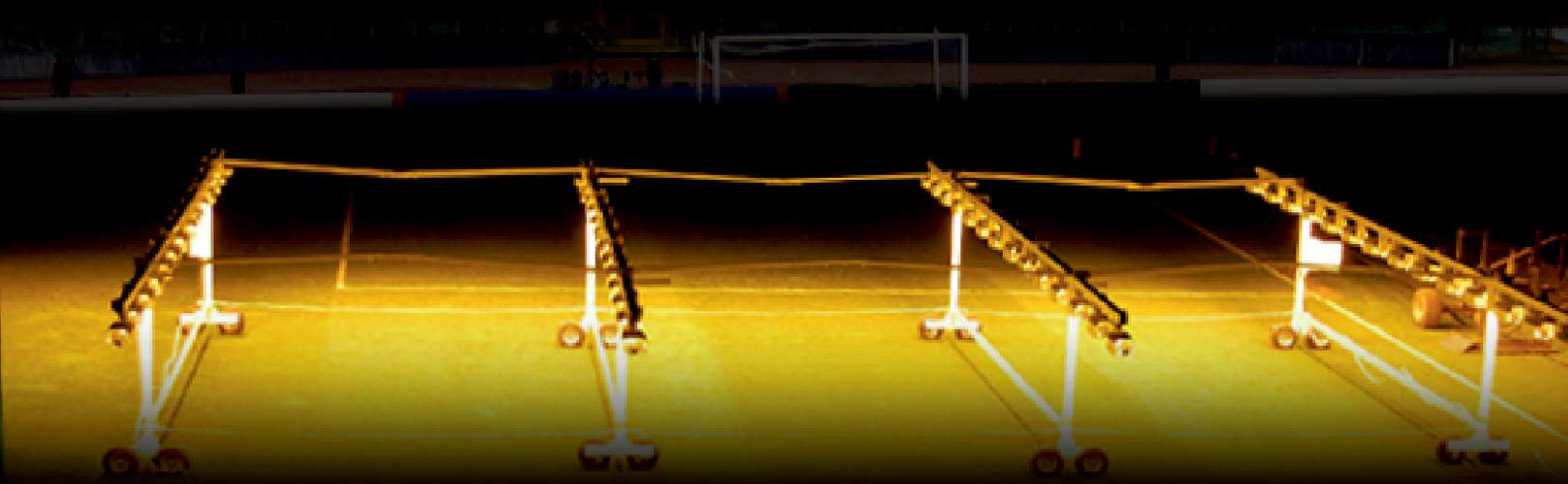
The design is carried out entirely by Mechanical Engineer Registered in Milan

lighting usage patterns, consumption and benefit projections

parameters and working mode control thru WEB interface



# HPL



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