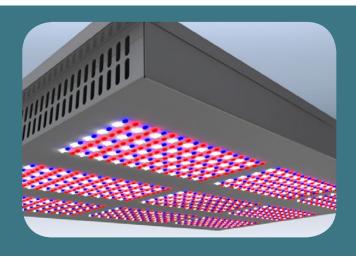


The LED-module and LED-chamber polyphoLED







Dynamic LED-modules

The **polyphoLED-modules** are applicable in a most flexible way. They can be ordered separately or assembled in a small custom build chamber. Growing height is adjustable and growing area can be configured in 4 sizes. Up to 6 modules can be controlled with a PC. Due to a special technique the modules have a broad dynamic range, which could be set in 10.000 steps. Due to a special assorting of the LEDs in up to 12 channels you can run sunlight-simulation with variable red- and blue light spectrum.

The modules can be LED-fitted to customer specifications. You decide about the light-spectrum and the light intensity.

The modules can also be put into our **plant growth chambers** or **phytophoton light bench** in a **poly klima room**. With their intuitive to operate controller elements you can adjust light intensity, air humidity, temperature and CO₂-saturation whichever way you like and therefore port any environmental condition into a controllable surrounding.

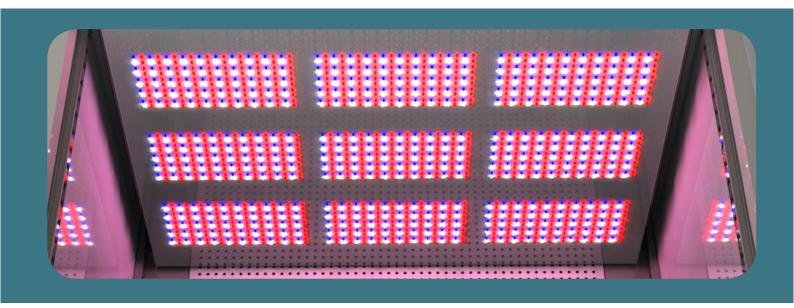
The environmental friendly simulation of climatic zones

polyphoLED modules provide (in conjunction with the tailor-made poly klima walk-in-rooms):

- High grade, durable components and materials.
- Access to every parameter via PC or touch screen monitor on the growth chamber or poly klima room.
- 12 light channels, each dimmable in 10.000 steps (PWM-frequency: 245 Hz).
- Very broad dynamic range dimmable from 0,01 up to 350 μmol and more.

Due to thorough engineering and the use of first-class materials we significantly lower the energy consumption of our systems in comparison with our competitors' products. We look upon climatic research also as climate protection.



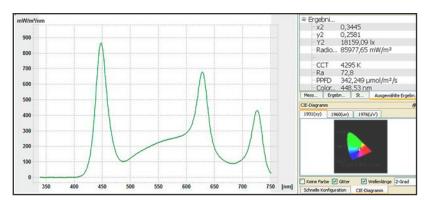


Technical details

- Non-corrosive; all materials are made of powder-coated aluminum or food-safe ABS plastic.
- The polyphoLED modules are completely made in Germany
- Ideal for chronobiology, entomology, zoology and plant biology research.
- LEDs can be configured free with 12 different light wave-lengths available ask for details.
- Dimming with pulse-width modulation at a frequency of 245 Hz. Therefore there is no influence on reared animals like insects.
- Dimming range from 0,01% to 100% in 10.000 steps.
- Editing and programming of the light intensities and the light periods is done with a visualizing-software on a remote PC or directly on the touch screen at the plant growth chamber or a poly klima room.

Configurations

Model	Growth area
Plant-01	0,067 m ²
Plant-02	0,135 m ²
Plant-04	0,270 m ²
Plant-06	0,4 m ²



Light spectrum of a phytophoLED module fitted with red, infra-red, blue and white LEDs.

We appreciate your interest and would be glad to visit you or discuss over phone.

If you are convinced that it is worth exploring further and have questions relating to your specific needs, then we appreciate your interest and would be pleased to personally discuss further at any time.

poly klima GmbH

Amselstr. 18a 85356 Freising

Tel. +49 (0) 8161 93 68 214 Fax +49 (0) 8161 93 66 066

www.polyklima.com

Roland Kopper Technical Director

Tel. +49 (0) 8293 95 13 36 eMail: kopper@polyklima.de

Uwe Schrödersecker Sales & Marketing

Tel. +49 (0)176 163 813 15

eMail: schroedersecker@polyklima.de



A poly klima plant growth chamber, size M, with a polyphoLED light bench

