

## As bright as the sun: modular plant light from BINDER

Tuttlingen, December 17, 2025 – Natural growth conditions and utmost flexibility – modular plant growth systems from BINDER offer tailor-made solutions by adapting to specific requirements and parameters. The LED plant light modules produce lighting scenarios inside the climate chambers that are very similar to natural sunlight.

The latest generation of constant climate chambers and cooling incubators can be transformed into plant growth chambers in no time at all by adding the LED plant light module. Thanks to the unique modular principle, the basic units can be converted as required and thus adapted to various requirements and applications.

An example of a basic unit is the KB PRO cooling incubator. With a temperature range from -20°C to +10 °C and an extensive range of accessories, it is suitable for a wide range of applications. For example, a CO2 gassing module can be added to precisely regulate the CO2 concentration. KB PRO cooling incubators are available in various sizes and can be expanded with the LED plant light module to create a plant growth chamber.

The LED lighting system consists of a light control box with a program controller and 16 LED strip lights that can be positioned inside the climate chamber as required. Each strip light contains three different LED color channels that can be controlled separately: sunlight-simulating warm white, sunlight-simulating cool white and dark red phytochrome control light.

With the intuitive control unit, the three color channels can be switched, dimmed and programmed in real time independently of each other. It also includes a twilight function and a fresh air function. The maximum irradiance (PAR) reaches sunlight strength. In contrast to the bright red light in the warm white channel, the dark red channel is used to trigger the plants' phytochrome system.

### Further information on plant growth chambers:

[Plant growth chambers from BINDER](#)

[KB PRO series with LED plant light module](#)

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**About BINDER GmbH:**

BINDER is the world's largest specialist in simulation chambers for scientific and industrial laboratories. The range of products offers flexible and customized solutions not only for routine applications but also for highly specialized work in research and development, production, and quality assurance. More than 22,000 units leave the plant at our headquarters in Tuttlingen, Germany annually. Many respected companies and research facilities all over the world rely on BINDER simulation chambers, whether they need them for cell or tissue cultivation, long-term storage, product testing, or material testing.

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