BINDER
Best conditions for your success

Plant growth chambers

Flexible configuration options with reproducible light and climate conditions



When growth conditions need to be precisely controlled, light quality, climate stability and simple programming are key factors. In combination with the LED plant light module, BINDER climate chambers become plant growth chambers.

▸ Applications

- Academic plant research
- Plant cultivation and genetic engineering
- Pesticide research
- Vertical agriculture

- ▸ Suitable for defined, reproducible growth conditions
- ▸ 3 Separately controllable light channels: warm white, cool white, dark red phytochrome light
- ▸ Programming with daily schedules and twilight function
- ▸ Constant climate chamber plus LED plant light module

Natural plant light

Freely programmable scenarios for reproducible test conditions

Modular principle

Select base unit, integrate LED modules or retrofit if necessary

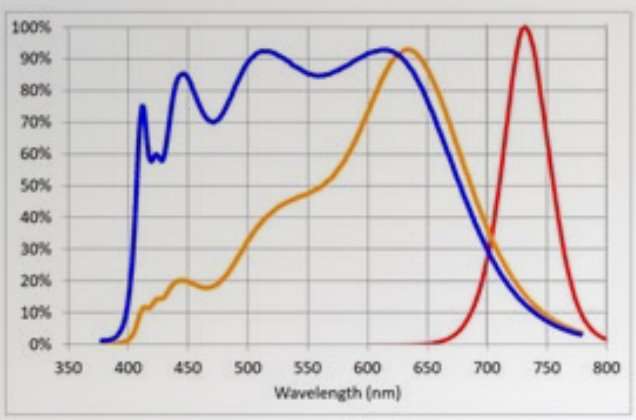
Variety of sizes

Floor-standing units from 260 to 1,600 litres

LED plant light module
Flexibly configurable for your application

The BINDER LED plant light module transforms climate chambers from the KBF, KBF PRO, or KB PRO series into plant growth chambers. The system consists of 16 LED light strips and a plug & play control unit. The light strips can be positioned very easily and flexibly inside the chamber.

Light spectra



- Warm white and cool white with sunlight-like spectra
- Dark red as phytochrome control light to influence photobiological reactions

Services

Personalised service modules

- Installation
- Commissioning
- Maintenance
- Calibration
- Qualification

Equipment options

1 **16 LED light strips**
Lighting geometry can be adjusted to plant height and setup

2 **Licht control unit**
Controls the colour channels from 10 to 100%; ventilation control, twilight function and real-time programming

3 **CO_2 gas injection module**
For increased CO2 concentrations to accelerate growth



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