PLANT GROWTH CHAMBERS

PRECISION-CONTROLLED ENVIRONMENT FOR RESEARCH AND PLANT GROWTH

BINDER





Flexible as Mother Nature - The conditions your plants deserve

BINDER constant climate chambers and cooling incubators can be transformed into plant growth chambers with the **LED plant light module**. Whether for short or tall plants, or seedlings, the interior can be reconfigured to suit the requirements. The Chamber, equipped with LED plant light modules, generates lighting scenarios that are almost identical to natural sunlight.

✅ **Sunlike LED Light Spectra**
- Cool White 6.500 K
- Warm White 2.700 K
- Warm White + Cool White
- Far Red 730 nm

✅ **24/7 Light Control**
- Real-time programming
- Twilight Simulation

✅ **Adjustable Fresh Air Flow**
- Supplies a continuous flow of CO_2
- Up to 500 L/h of ambient air

✅ **Modular Setup**
- Flexibly configurable LED cassettes
- Configuration CO_2 Module + Plant Growth Module

✅ **Flexible Configuration**
- Compatible with KBF, KBF PRO, KB, and KB PRO chambers
- Inner chamber: from 260 to 1600 L.

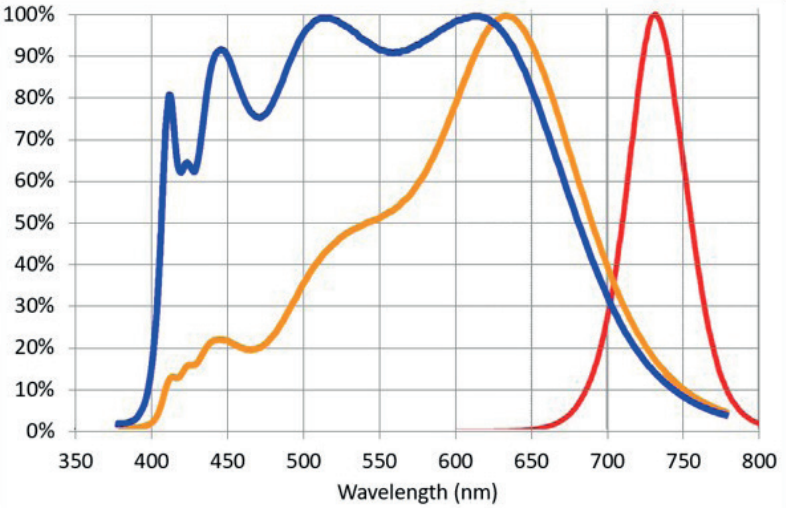


Figure 3: Cool white (6.500 K), warm white (2.700 K), far red (730 nm) light spectra

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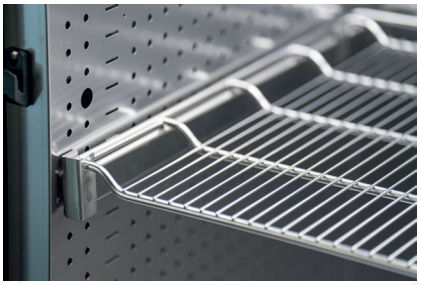
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Cooling with climate-neutral refrigerants R600a and R290 in compliance with the new F-gas regulation



Effortless loading with stainless steel telescopic rails



Controlled and independent water supply with external water supply sets

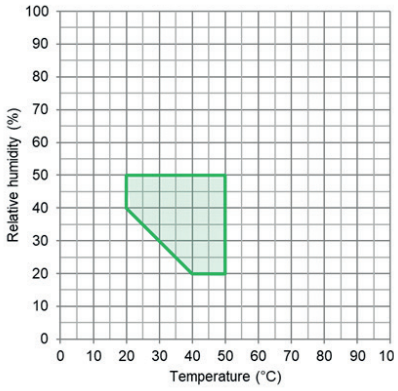
Application Use Cases:

- Academic plant research
- Phytochrome response studies
- Breeding & genetic engineering
- Quality assurance in agriculture

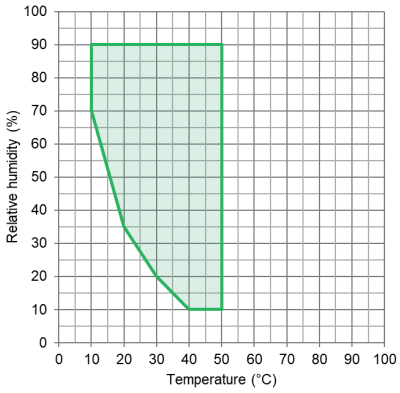


Climate diagrams

KBF 720 with 100% LED plant light



KBF PRO 720 with 100% LED plant light



Option A	KB Pro 260	**041-494945**	PT 100	**041-491963**	Plant Light Module	**041-494871**
Option B	KB Pro 470	**041-494946**	PT 100	**041-491963**	Plant Light Module	**041-494871**
Option C	KB Pro 720	**041-494947**	PT 100	**041-491963**	Plant Light Module	**041-494871**
Option D	KBF Pro 260	**041-494957**	PT 100	**041-491985**	Plant Light Module	**041-494871**
Option E	KBF Pro 470	**041-494958**	PT 100	**041-491985**	Plant Light Module	**041-494871**
Option F	KBF Pro 720	**041-494959**	PT 100	**041-491985**	Plant Light Module	**041-494871**

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