

# Kuhner SUN

Light. Life. Growth.



## The perfect controlled light environment

Transform your incubator into a perfectly controlled light environment. With **Kuhner SUN**, create ideal, reproducible conditions for even your most sensitive photosynthetic cultures.



## Ideal for

- Microalgae & cyanobacteria
- Plant cell cultures
- Purple & phototrophic bacteria



## Because perfect light creates perfect results

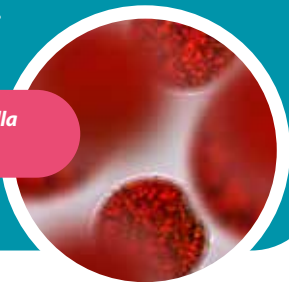
- **Get natural like results** – with fully automated day-night cycles.
- **Shape your spectrum** – Blend warm (3000 K) and cool (6500 K) white light to tune photosynthesis activity.
- **Ensure consistency** – Uniform illumination  $< \pm 10\%$  means every culture gets the same light intensity.
- **Intuitive control** – set precise light conditions easily via the clear touchscreen interface.
- **Reach higher performance** – Deliver up to  $300 \mu\text{mol s}^{-1}\text{m}^{-2}$  – ideal for even the most demanding phototrophic organisms.

## Key applications

### Microalgae and cyanobacteria

Boost production of high-value pigments (e.g., Astaxanthin) & biomass via light-stress cycles.

E.g., *Haematococcus spp.*, *Dunaliella spp.*, *Chlorella spp.*, *Spirulina*



### Plant cell cultures

Ideal for molecular farming, greening of cell lines (BY-2), and light-inducible protein expression.

E.g., *Nicotiana tabacum*, *Physcomitrium patens*, *Marchantia polymorpha*



### Purple and phototrophic bacteria

Control anoxygenic photosynthesis for hydrogen production, bioplastics or metabolism studies.

E.g., *Rhodobacter spp.*, *Rhodospirillum spp.*, *Chlorobium spp.*



## Available as an option or retrofit upgrade

The **Kuhner SUN** can be added directly when purchasing a new ISF1-Z compressor incubator – or installed later as a retrofit upgrade on an existing machine. Flexible, future-proof, and easy to integrate. Kuhner SUN is compatible with all ISF1-Z compressor.

## Find out if Kuhner SUN is the right solution for your application.

Contact our experts: [shaker@kuhner.com](mailto:shaker@kuhner.com)

Want to learn more?  
Scan the QR code for  
detailed technical data.

