



**FOOD
AUTONOMY**
Horticultural lighting

LED FAN TOPLIGHT

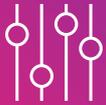


Transform Heat
Waste into
Growing Profits

LED FAN IS THE MOST UNIQUE LED LUMINAIRE

LED Fan Toplight represents a revolutionary breakthrough in greenhouse illumination—the most unique lighting system ever created for controlled environment agriculture. Co-developed with master growers cultivating fruits, vegetables, and flowers in high-tech greenhouses, it transcends traditional lighting paradigms by combining the best qualities of LED technology with the climate benefits of HPS systems.

- Dual savings - Cuts lighting costs while reducing heating expenses by over 15% compared to HPS and even more versus standard LEDs
- Superior yield - Delivers more photosynthetically active light ($\mu\text{mol/s}$) to maximize plant productivity
- Perfect climate - Enhances evaporation to stimulate photosynthesis for optimal growth conditions, while increases internal heat and decreases relative humidity around the plants
- Intelligent control - Precision dimmability maintains uniform light while increasing efficiency
- Versatile spectrum - Switches between ideal growing light and comfortable work environment



**Controllable
4-channel**



**Wireless dimming
via climate
computers**



**Fan Control
during the
whole
year**



**Compatible with
CultiMesh**



Luminous efficacy
up to 4.5 $\mu\text{mol/J}$



PPF up to 5500
 $\mu\text{mol/s}$



High uniformity



50K lifetime,
L90



Unlimited spectral
variations



Stimulates
evaporation

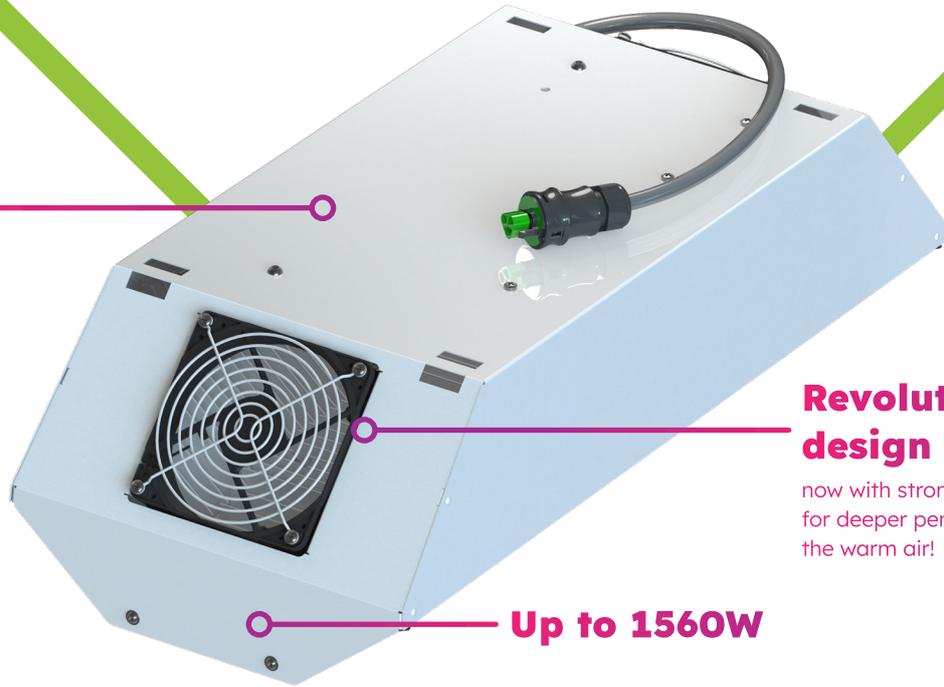


Decrease humidity,
effecting less disease



Elevates greenhouse
temperature

Considerable cost savings on lighting and heating



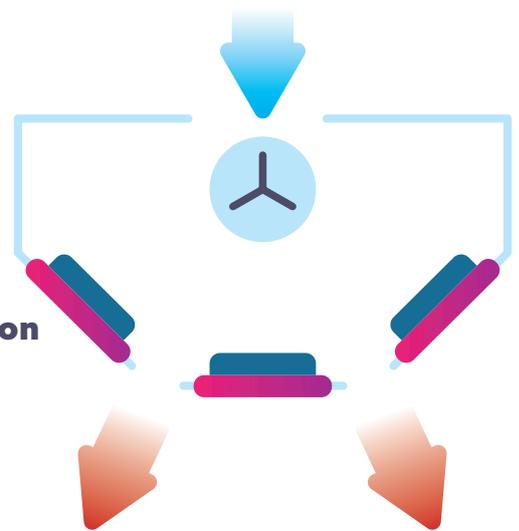
Revolutionary design

now with stronger airflow for deeper penetration of the warm air!

Up to 1560W

HOW IT WORKS?

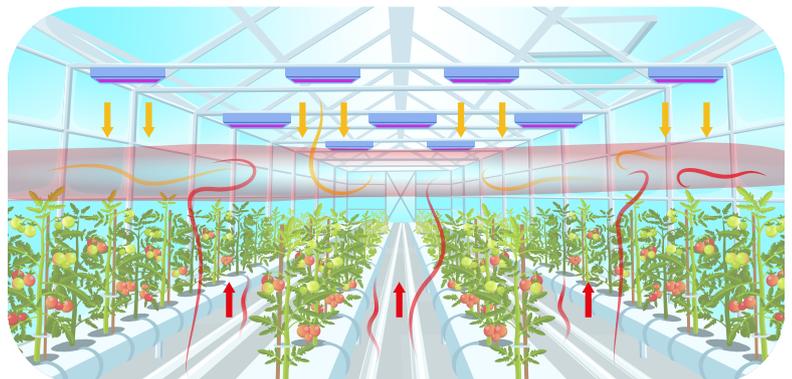
- ✓ **Smart Circulation** - The system captures cold air at the top, warming it with heat naturally generated by the LEDs and drivers
- ✓ **Perfect Climate** - This warm airflow reduces humidity around plants, enhancing evaporation and photosynthesis
- ✓ **Energy Efficiency** - The heat barrier created allows greenhouse screens to remain closed longer, significantly lowering heating requirements



A revolutionary design that turns waste heat into growing advantage.



The system orchestrates a protective warm air blanket that hovers precisely at plant canopy level, creating an invisible energy shield that transforms growing conditions while conserving heat.





**Application area includes
fruits, vegetables and flowers.**

At Food Autonomy, we create lighting solutions that unlock nature's full growing power.

Our deep understanding of plant-light relationships drives us to engineer revolutionary LED systems and smart solutions for greenhouse and vertical farm operations.

We empower growers worldwide to achieve extraordinary results by revealing the hidden potential in every cultivation space.

CONTACT US!

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