

New lighting unit "HEFL" enables ideal agriculture practices

HEFL® lighting unit

Hybrid Electrode Fluorescent Lamp

HEFL is a fluorescent lamp for agricultural application modified backlight lamps used for large-screen LCD TVs.

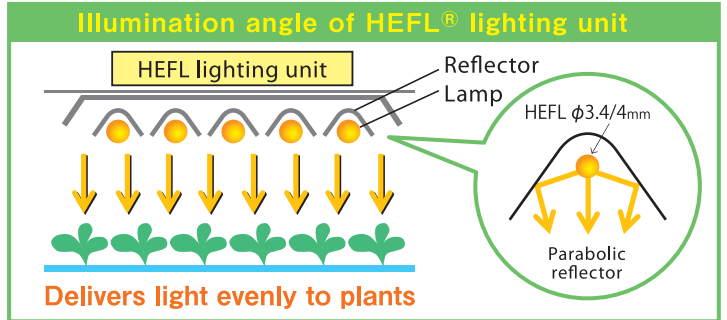
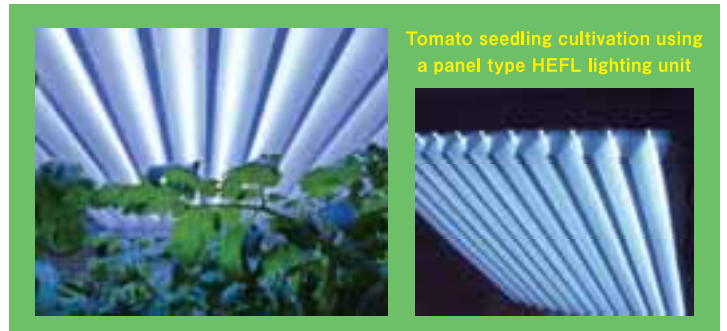
Panel Type Thinner low-heat lighting unit enables proximity illumination and multi-shelf cultivation!

HEFL lighting unit line-up



	8 lamps	12 lamps
Size	L900 × W700 × H57mm	
Lamp spec.	φ3.4/4.0 × 860mm	
Working voltage	AC100~240V (50/60Hz)	
Power consumption	87W	115W
Standard equipment	AC code (2m in total) (12A/125V Flat 2P+earth terminal)	AC code (2m in total) (12A/125V Flat 2P + earth terminal) PWM dimmer (Approx. 100~40% adjustable)

- ◆ The lamp life is as long as 45,000 hours, which leads to reduction in the maintenance cost for the lighting unit.
- ◆ With a specially designed parabolic reflector to direct light vertically downward, the HEFL lighting unit distributes light evenly to plants.
- ◆ A wide variety of wavelengths of the lamp (17 colors) enables most suitable light quality control for cultivation according to crops.



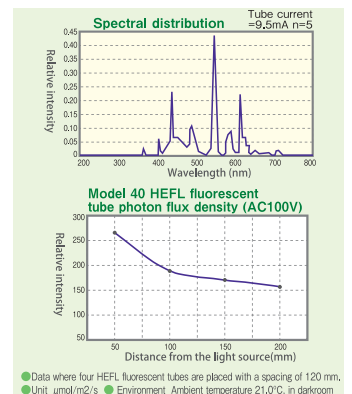
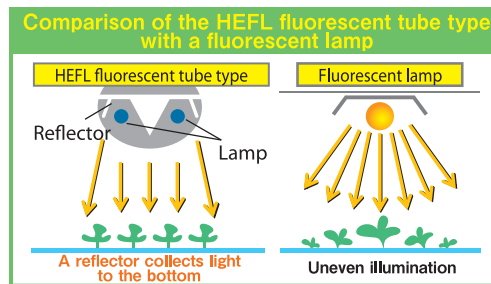
Fluorescent tube type High-performance HEFL fluorescent tube with a built-in reflector to direct light vertically downward to plants

40W model image

HEFL® fluorescent tube specifications

	HEFL fluorescent tube size	HEFL fluorescent tube diameter	Outer diameter	Rated input voltage	Average life	Power consumption	Base
40W Model	1,198mm	φ4.0	φ31.0	AC100~240V	approx. 40,000 h	28W	G13
110W Model	2,367mm	φ4.0	φ31.0	AC100~275V	approx. 40,000 h	72W	R17d

* 110W model: A dedicated inverter is included separately. With a function to control light level
* In compliance with PSE



- ◆ **G13 base** allows use of existing apparatus and easy installation.
- ◆ **High durability and long life** thanks to filamentless structure.
- ◆ **Changing lamps** allows various light quality control features, same as panel type

Panel type, fluorescent tube type Tube color (17 colors) Tube length: 450 – 1100 mm φ3.4/4 mm

Customized tube colors are available on your request. Please feel free to contact us. * You can replace tubes by yourself without difficulty.



The system was developed with an FY2012 governmental subsidy to promote and support new business activities (project to support collaboration between agricultural, commercial and industrial operations).

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