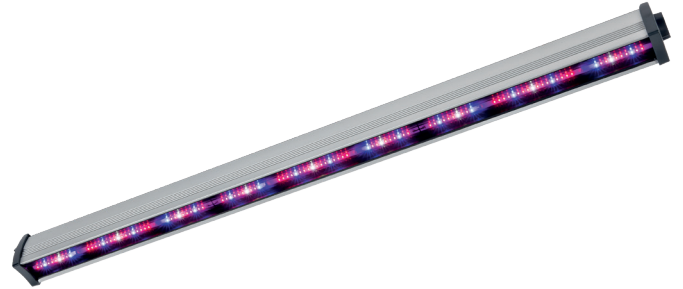




FL100 GROW FIXTURE

- ✓ Control of spectral composition and light intensity
- ✓ Consistent light on the plants due to a patented optical lens system
- ✓ Minimize the use of Plant Growth Regulation (PGR)
- ✓ Control the height of the plant
- ✓ Get better quality and higher output
- ✓ Long lifetime with no reduction of the light output
- ✓ Well suited for vertical farming, greenhouses and research



The LED fixture emitting light in the photosynthetic active region of the visible light spectrum

About FL100 Grow

The LED solutions suit most modern production greenhouses in the world and are designed to withstand the harsh environment of a glass house. FL100 Grow is suitable for growing in layers, because it can be interconnected - and is very suited for vertical farming.

The minimalist design means easy installation using standard technology, and with a minimal shadow footprint, the FL100 Grow is able to produce good quality plants year round - year after year.

- Innovative solution for growing in layers for vertical farming - fixtures can be interconnected
- The natural replacement for the conventional HPS systems
- Get a specific lighting plan based on your plant's need for lighting

Controllable spectrum and light intensity

One of the major benefits of this fixture is the ability for control.

- Investing in a controllable LED fixture means you always have the option to change the light to keep up with new research findings, a new culture/culture stage, or simply to dim the fixture when less light is required.
- Simply put, an investment in the FL100 will not leave you with a fixed spectrum but lead to endless possibilities.

System for control of the LED installation

- The light spectrum can be designed for individual crops in combination with LCC4 climate control systems.
- An alternative to the LCC4 climate control system is a small Control Unit which controls up to 49 fixtures.
- A further alternative is the LED Light Controller, which can be connected with your climate computer from an other provider. That way you can maintain the full control of your LED installation.

Future-proof solution

With the long lifetime, resource savings, and improved plant growth, LED is a solid and future-proof investment.

We will gladly assist you with further guidance and a light plan, and of course with an offer, to provide you the full overview of upgrading your business.



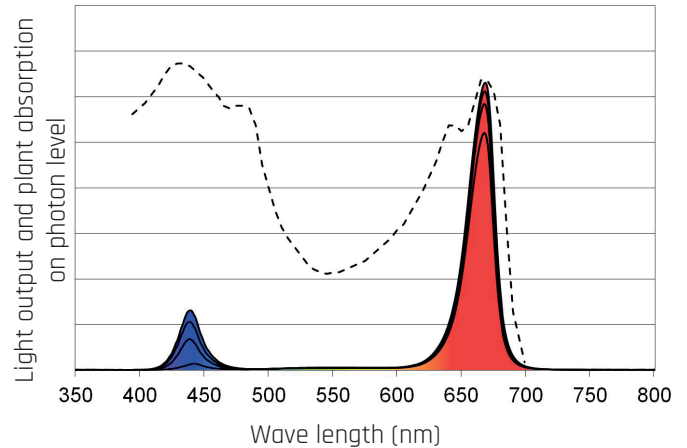
SPECIFICATIONS / FL100 GROW FIXTURE - VERSION 1.2

Technical specifications

Power input:	400V AC / 50/60 Hz (380 - 480 V AC)
Nominal current:	0.4 A
Power usage:	75 - 150 watt (adjustable via controller)
Cos φ:	0,96
Light output from fixture:	2.96 μmol/s per Watt*
PPF:	444 μmol/s
Light output from diodes:	3.24 μmol/j
Net weight:	3 kg
Dimensions L x W x H:	1165 x 67 x 90 mm
Operating temperature:	0 - 40° C
Coverage:	Up to 12 m ² (depending on light intensity)
Light modulation range:	From 2 - 14 % blue light of total light
Green / white content:	From 1 - 5 % of total light*

* Depending on the spectral settings

The FL100 Grow is designed with an optical lens system that enables a traditional installation plan similar to HPS with homogeneous distribution profile on plant level - but with less waste of light.



Spectral distribution of FL100 Grow together with a general action spectrum of plants. Spectral distribution for FL100 shown for 2, 6, 10, 14 % blue

FL100 Grow - Light Modulation Range

	75 W	100 W	125 W	150 W
2 % blue			✓	✓
4 % blue		✓	✓	✓
6 % blue		✓	✓	✓
8 % blue	✓	✓	✓	✓
10 % blue	✓	✓	✓	✓
12 % blue	✓	✓	✓	✓
14 % blue	✓	✓	✓	✓

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