

PRODUCT OVERVIEW

climalux



Grow light unit

The CLX V1000 grow light is composed of a dimmable led-lighting unit and a vertical ventilation system, which distributes heat and moisture evenly in a greenhouse. The unit creates a micro-climate around each plant, caused by the vertical air movement in combination with the adjustable light intensity.

• Type:	CLX V1000
• Model:	V1.5
• Power:	0 – 1,000 W (dimmable)
• Voltage:	390 Vdc (typical)
• PPF (PAR)	2,300 $\mu\text{mol/s}$ at 1,000 W
• Max efficacy:	2.6 $\mu\text{mol/J}$
• Dimensions:	285 x 150 x 95 mm
• Weight:	3.2 kg

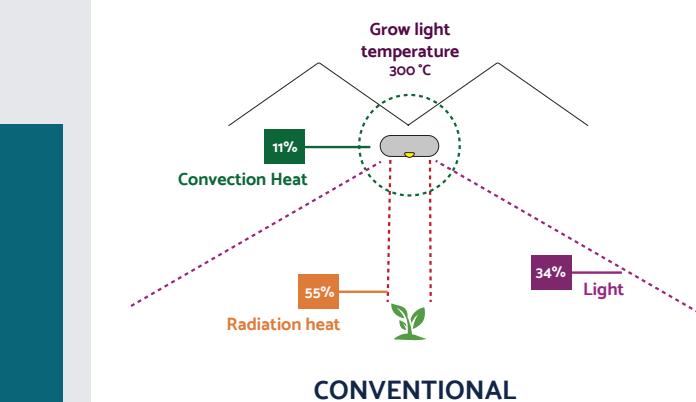
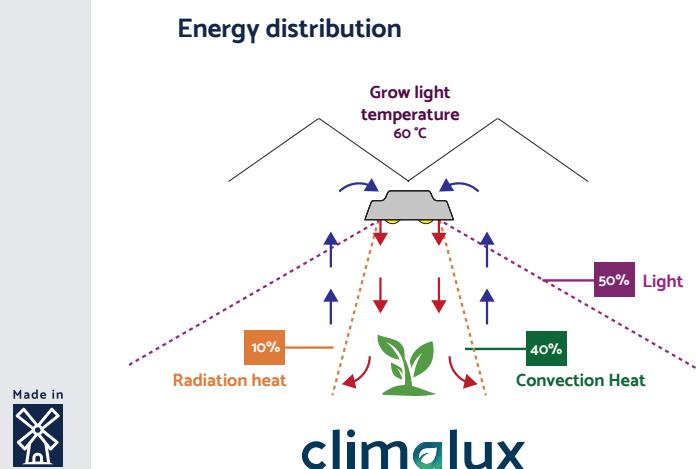
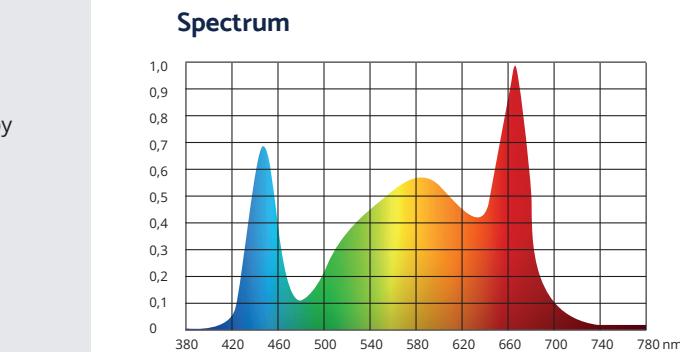
Spectrum

20% Blue	400 – 500 nm
38% Mid	500 – 600 nm
40% Red	600 – 700 nm
2% FR (Far Red)	>700 nm

• Light beam angle:	120°
• Protection class:	IP67, IK06
• Conformity:	CE, RoHS

Key features:

- Interchangeable LED light source for easy maintenance;
- 95% recyclable materials;



Horticulture Control Unit (HCU)

The HCU is the connection between the horticultural computer and the grow light system. The connected full-led grow lights can be arranged in any desired configuration. Multiple group divisions can be created, each with its own light intensity so that the light intensity in the greenhouse is the same everywhere. The smallest group can hold four grow lights.

- Type: CLX-HCU-B
- Model: B
- Input: 230 Vac and (W)LAN
- Communications: Modbus-TCP or Analog 4-20 mA
- Output: Serial communication (RS485)
- Dimensions: 510 x 410 x 225 mm
- Weight: 18 kg

Compliant to Horti Lighting Protocol (Hoogendoorn, Priva and Ridder).



Power Supply Unit (PSU)

The SMC 4000 power supply unit is a 4 kW stepless dimmable led-driver, delivering power to a maximum of four CLX V1000 grow light units. The PSU operates on standalone basis and can be externally controlled via the HCU, providing maximum installation flexibility.

- Type: SMC 4000
- Model: V7.3
- Input:
 - Power range: 0 – 4,000 W (dimmable)
 - Voltage range: 360 – 440 Vac
 - Current: 12 A (max.)
 - Net-frequency: 47 – 63 Hz
 - Power Factor (PF): 0.99 (nom.)
 - THD: 1.0% (nom.)
 - Inrush current: < 3 A
- Output:
 - Power: 4x 1,000 W (max.)
 - Voltage: 390 Vdc (typical)
 - Current: 4x 3 A (max.)
- Efficiency: 97.2% (typical)
- Required connectors:
 - Mains power: Wieland RST20i3 (2W+PE)
 - Communications (optional): Wieland RST08i3 (3W)
- Fuse: 2x 20 A slow
- Dimensions: 600 x 155 x 125 mm
- Weight: 7.8 kg
- Protection class : IP67
- Conformity: CE, RoHS
- Operating conditions:
 - Ambient temperature: 0 – 35°C (at max. power)
 - Relative humidity: 0 – 45°C (automatic derating)
 - Relative humidity: 5 – 95% RH



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Overall system conformity

- CE
- Low Voltage Directive:
 - LVD 2014/35/EU 10, IEC 60598-1
 - Electromagnetic Compatibility:
 - EMC 2014/30/EU
- Harmonized standards:
 - EN 55015 (2013)
 - EN 61000-6-2 (2005) + AC (2005)
 - EN 61000-3-2 (2014)
 - EN 61000-3-3 (2013)
- RoHS 2011/65/EU Directive



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