

New Generation LED-Based Growth Chambers

FytoScope Chamber FS 130



Highlights:

- **Independently Programmable LED-Based Illumination:**
 - user-defined modulation;
 - intensity up to 1,500 $\mu\text{mol}(\text{photon})/\text{m}^2 \cdot \text{s}$;
 - precise intensity control in the range of 1 % to 100 %;
 - timing steps from seconds to hours and days;
 - white + infra-red LED light.
- **Temperature Control:** programmable controller ramps temperature up or down in the range of 5 to 60 °C.
- Day / night cycle programmable.
- LED technology with minimum plant heating.

Applications:

- Precision-controlled plant growing.
- Well-defined growing of algae or cyanobacteria in Petri dishes or Erlenmeyer flasks.

Online Measured Parameters:

- Temperature.
- Light.
- F_T , F_M , QY (optional).
- Relative humidity (optional).



Other Benefits:

- Minimal footprint size using less laboratory space.
- Digital display of temperature and lighting intensity.
- Day/night cycle programmable.
- Temperature range: 15 °C to 60 °C with illumination, 5 °C to 60 °C without illumination.
- Lower temperatures as an option.
- Relative humidity control (option).
- Integrated CO₂ mixer (option).
- Incorporated module for measuring chlorophyll fluorescence parameters (option).

Construction:

- High-quality construction materials ensuring maximum durability and reliability.
- Outside dimension: 100 x 55 x 62 cm.
- Inside dimension: 70 x 43 x 41 cm.
- Volume: 124 l.
- Small footprint.



Technical Specification:

- **LED Light Illumination:**
LED panel 20 x 30 cm
- **Controlled Temperature Range:**
+15 to +60 °C (maximum illumination); +5 to +60 °C (without illumination)
- **External Dimensions:**
100 x 55 x 62 cm (H x W x D)
- **Internal Dimensions:**
70 x 43 x 41 cm (H x W x D)
- **Weight:**
55 kg
- **Internal Volume:**
124 l
- **Refrigerant:**
R134a
- **Compressor:**
220 - 240 V; ~ 50 Hz; 160 W; 0,7 A
- **Warranty:**
1 year parts and labor

Other PhytoScope Versions:

- FS 250 - accessible from the top
- FS 360 - accessible from the top
- FS 2700 - step-in unit



§ This newsletter was sent by the Photon Systems Instruments, Drasov 470, 664 24 Drasov, Czech Republic, ph. +420 511 440 011, <http://www.psi.cz>

§ We are happy to consult your exact requirements. Please contact us for detailed information and price at info@psi.cz