



FytoScope Chamber FS 360

FytoScope Chamber FS 360 is a growth chamber that is accessible from the top. The lid is equipped with a LED-based light panel. Controllable parameters are temperature and illumination.

▼ APPLICATIONS

- Real-time, *in-situ*, high-content monitoring of plant performance
- Accurate, precision-controlled plant growth under defined light composition
- Accurately controlled growth of algae or cyanobacteria in Petri dishes or Erlenmeyer flasks
- Adequate space for cultivations under controlled temperature and light characteristics, intensity and mode
- Multi-line schedule for temperature and lighting

▼ KEY FEATURES

- Growth chamber with inside capacity of 360 l
- Accessible from the top
- Precise control over the light mode, intensity, and timing
- White + far-red LEDs
- Higher light intensity and temperature as an option
- Accurate temperature control
- Wider temperature range as an option



04 / Growth Chambers

VERSIONS

- WIR (white + far-red LEDs; cool white or warm white)
- RGBIR (red + green + blue + far-red LEDs)

ONLINE MEASURED PARAMETERS (OPTIONAL)

- F_T , F_M , QY
- Relative humidity
- Temperature
- Light intensity
- CO₂ assimilation monitor

CONTROL SOFTWARE (OPTIONAL)

- Data collection in real time
- Data upload for processing during the experiment
- Data visualization in graphs or tables
- Web interface

TECHNICAL SPECIFICATION

- **Outside Dimension:** 140 × 68 × 88 cm (W × D × H)
- **Inside Dimension:** 120 × 50 cm (base), 41 cm (height), plus additional lower space of 100 × 50 cm (base), 27 cm (height)
- **LED Light Illumination Panel:** 100 × 50 cm
- **PPFD:** Up to 300 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$ at the distance of 30 cm, optionally upgradable to 500 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$
- **Power Input:** 220–240 V/50 Hz (opt. 110/60 Hz)
- **Temperature Control:** In the range of +15 to +40 °C

