

AlgaeTron AG 230

AlgaeTron AG 230 is a floor standing incubated shaker that provides welldefined uniform environment for controlled growing of algae, cyanobacteria and plant tissue cultures in Petri dishes or Erlenmeyer flasks. It is equipped with three independently illuminated shelves maximizing tissue culture area. Illumination of each shelf is separately controllable in intensity, mode and timing according to user's defined protocol. AG 230 is designed with minimal footprint size that makes it ideal for laboratories with limited space. AlgaeTron AG 230 may be supplied with up to three integrated orbital shakers, each with loading capacity of 3.5 kg and rotation speed range of 30 to 500 RPM.

AG 230 is equipped with a programmable controller that enables customers to create programs and to automate changes to multiple operating parameters such as timing, light intensity, light characteristics, temperature, and shaking power.

Easy-to-read display screen located on the AlgaeTron front side clearly shows operating parameters and actual values.

Optionally, the AlgaeTron may be supplemented with a Gas Mixing System GMS 150 that can bring pure or mixed gases into the incubator.

▼ APPLICATIONS

- Specifically designed for cultivation of algae, cyanobacteria and plant tissue cultures
- Accurately controlled growth of algae or cyanobacteria in Petri dishes or Erlenmeyer flasks
- Small footprint area for maximizing floor space in the lab
- In total 0.46 m² of culture cultivation area on 3 slide-out shelves
- Adequate space for cultivations under controlled temperature and light characteristics, intensity and mode
- Multi-line schedule for temperature and lightning

▼ KEY FEATURES

- Intuitive programming of temperature, photosynthetic light, and shaking speed
- Three independently illuminated cultivation spaces with separate control option
- Lighting: adjustable in intensity (from 0 to 100 %), timing, modulation, and diurnal cycling
- Timing steps from seconds to hours
- User-defined modulation
- Standard cold or warm white + farred LED light (customized light color is optional)
- PPFD up to 500 μmol.m⁻².s⁻¹ for top panel and up to 100 μmol.m⁻².s⁻¹ for two lower panels
- Temperature control in the range of +5 to +45 °C (with maximum illumination)
- LED technology with minimum undesired heating
- Shaking speed range up to 500 RPM (optional)
- Integrated Gas Mixing System (optional)

▼ CONTROL SOFTWARE (OPTIONAL)

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

▼ TECHNICALSPECIFICATION

- Controlled Temperature Range: +15 to +45 °C – standard (shaking ON, illumination ON); +10 to +50 °C – optional (shaking ON, illumination ON)
- LED Light Illumination:
 - Upper LED light panel: 25 x 35 cm
 - Lower two LED light panels: 33×46 cm
- External Dimensions: 170×60×62 cm (H×W×D)
- Internal Volume: 265 |
- Weight: 70 kg
- Refrigerant: R600a
- Compressor:
 220-240 V; ~ 50 Hz; 200 W; 1A
 (optionally 110 V; ~ 50/60 Hz)
- Shaker Speed: 30-500 RPM
- Shaker Weight: 9 kg
- Shaker Loading Weight: Up to 3.5 kg
- Shaker Dimension: 39 × 32 × 9 cm (W × D × H)
- Shaker Power Supply: 115/230 V ±10 %; ~ 50/60 Hz
- Power Input: 600 W / 900 W

