

LI-6800 Portable Photosynthesis System



For brevity, here are some specifications that distinguish the LI-6800.

CO₂ Analyzers

- **CO₂ Analyzer Precision:** Within 0.1 $\mu\text{mol mol}^{-1}$ RMS with 4-second averaging at 400 $\mu\text{mol mol}^{-1}$

H₂O Analyzers

- **H₂O Analyzer Precision:** Within 0.01 mmol mol^{-1} RMS with 4-second averaging at 10 mmol mol^{-1}

System

- **Bulk Flow Rate Range:** 680 – 1700 $\mu\text{mol s}^{-1}$ at SATP1
- **Light Source Uniformity:** $<\pm 10\%$ variation over 90% of aperture
- **Chamber Temperature Control Range:** 10 °C above or below ambient

Distinguishing Fluorometer Specifications

- **Modulation Frequency:** 1 Hz – 250 kHz
- **Measuring Light Peak Wavelength:** 625 nm
- **Red Actinic and Saturating Flash Peak Wavelength:** 625 nm
- **Blue Actinic Peak wavelength:** 475 nm
- **Far-red Peak Wavelength:** 735 nm

- **Actinic Light Output:**
 - 0 – 3000 $\mu\text{mol m}^{-2} \text{s}^{-1}$ total at 25 °C
 - 0 – 1000 $\mu\text{mol m}^{-2} \text{s}^{-1}$ blue at 25 °C
 - 0 – 2000 $\mu\text{mol m}^{-2} \text{s}^{-1}$ red at 25 °C
- **Saturation Light:** 0 – 16,000 $\mu\text{mol m}^{-2} \text{s}^{-1}$ at 25 °C
- **Far-red Light:** 0 – 20 $\mu\text{mol m}^{-2} \text{s}^{-1}$ at 25 °C