

Multiphase Flash™ Fluorometer

- **Modulated light:** Software controlled and software selectable frequencies of 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:** Software controlled intensity; 0 – 16,000 $\mu\text{mol m}^{-2} \text{s}^{-1}$ at 25 °C
- **Far-red light:** Software controlled intensity; 0 – 20 $\mu\text{mol m}^{-2} \text{s}^{-1}$ at 25 °C
- **Fluorescence signal temperature dependence:** -0.25% per °C
- **Uniformity:**
 - $<\pm 10\%$ over 92% of the aperture with white top gasket
 - $<\pm 10\%$ over 90% of the aperture with black top gasket
- **Power consumption:**
 - $<18 \text{ W}$ at 25 °C with 3000 $\mu\text{mol m}^{-2} \text{s}^{-1}$ actinic light
 - $<60 \text{ W}$ at 25 °C with 16,000 $\mu\text{mol m}^{-2} \text{s}^{-1}$ saturating flash
- **Leaf area:** 6 cm² or 2 cm²; Round apertures
- **Size:** 16.6 x 11.5 x 13.6 cm (L x W x H)

LI-COR®



Large Leaf and Needle Chamber

- **Maximum leaf area:** 36 cm²
- **External dimensions:** 11.5 cm wide (spring to spring) x 16.8 cm long (front of chamber to back of chamber link) x 5.9 cm tall (bottom of chamber manifold to top of chamber)
- **Weight:** 0.35 kg

Large Leaf and Needle Chamber with Conifer Sprig Blocks

- **Maximum planar leaf area:** 36 cm²
- **Internal Chamber Height:** 6.7 cm
- **External dimensions:** 11.5 cm wide (spring to spring) x 16.8 cm long (front of chamber to back of chamber link) x 7.2 cm tall (bottom to top of chamber)
- **Volume:** 25.68 in³ or 420.8 cm³

Bryophyte Chamber

- **Chamber volume:** 193.2 cm³ (internal volume)
- **Internal dimensions:** 7 cm diameter; 4.45 cm deep
- **External dimensions:** 8.4 cm wide x 12.7 cm long x 6.47 cm
- **Weight:** 0.60 kg

Soil CO₂ Flux Chamber

- **Chamber volume:** 4244.1 cm³
- **IRGA volume:** 57 cm³
- **Soil area:** 317.8 cm² (49.3 in²)
- **Air Temperature Thermistor:** Operating Range: -20 to 45 °C, Accuracy: ±0.5 °C over 0 °C to 70 °C