

LI-6800 Chambers and Light Sources



Multiphase Flash Fluorometer

The Multiphase Flash™ Fluorometer (6800-01A) is a combined light source and chamber for simultaneous measurements of gas exchange and chlorophyll *a* fluorescence from the same leaf area. Choose a 6-cm² or 2-cm² leaf area by swapping interchangeable apertures.



Small Light Source (3x3 cm)

Requires chamber.

The Small Light Source (6800-02) mounts directly onto the Clear-top Chamber. It provides 0 to 2000 $\mu\text{mol m}^{-2} \text{s}^{-1}$ total PAR, with individually controlled red (0 – 2000 $\mu\text{mol m}^{-2} \text{s}^{-1}$) and blue (0 – 500 $\mu\text{mol m}^{-2} \text{s}^{-1}$) light.



Large Light Source (6x6 cm)

Requires chamber.

The Large Light Source (6800-03) provides irradiance with independently controlled red, green, blue, and white light (up to 2400, 1000, 2000, and 1500 $\mu\text{mol m}^{-2} \text{s}^{-1}$ respectively).



Clear-top Chamber

Works with the Small Light Source.

The Clear-top Chamber (6800-12A) has a transparent top for gas exchange measurements using ambient light. Leaf area options include 3x3 cm, 2x3 cm, or 1x3 cm, using interchangeable apertures. This chamber can be used with two Small Light Sources to illuminate both sides of the leaf.



Large Leaf and Needle Chamber

Works with the Large Light Source.

The Large Leaf and Needle Chamber (6800-13) is ideal for leaves and needles that are big enough to cover most or all of the 36-cm² area leaf aperture. This chamber can be used with two Large Light Sources to illuminate both sides of the leaf or sprig.



Soil CO₂ Flux Chamber

The Soil CO₂ Flux Chamber (6800-09) is used to measure the rate of diffusion of CO₂ from the soil surface. This 20 cm chamber uses technology from the patented LI-COR soil solution, which is the global standard in soil chamber technology.



Small Plant Chamber

Works with the Large Light Source

The Small Plant Chamber (6800-17) enables measurements of whole *Arabidopsis thaliana* plants, other small rosettes, or short canopies such as turf grass, in 65 mm (2.5 inch) pots or 38 mm (1.5 inch) Cone-Tainers™



Bryophyte Chamber

Works with the Large Light Source

The Bryophyte Chamber (6800-24) is used to measure CO₂ and H₂O gas exchange from mosses, hornworts, liverworts, and lichens.



Custom Chamber Adapter

The Custom Chamber Adapter (6800-19) allows you to construct a chamber to meet your needs, and mount it to the sensor head.



Insect Respiration Chamber

The Insect Respiration Chamber (6800-89) measures CO₂ respiration from insects, very small animals, or small fruits.

Light Source Packages

6800-02P: Clear-top Chamber with Small Light Source

6800-13L: Large Leaf and Needle Chamber and Conifer Sprig Adapters, with Large Light Source

6800-17L: Small Plant Chamber with Large Light Source

6800-24L: Bryophyte Chamber with Large Light Source

Accessories

9968-210: Sub-sample Kit

Collect gas from sample, reference, and exhaust air streams.

9968-109: CO₂ Tank Adapter Kit

Attach a tank of compressed CO₂ to the CO₂ injector.

9968-242: Auxiliary Power Cable

Connect a deep cycle battery to the LI-6800.

9968-243: Light Source Extension Cable

Connect a second light source to the LI-6800 sensor head.

9968-271: Conifer Sprig Kit

Connects to 6800-13 to measure large conifer sprigs.

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