# LI-6800 Chambers and Light Sources



**Multiphase Flash Fluorometer** 

The Multiphase Flash™ Fluorome-

ter (6800-01A) is a combined light

source and chamber for simultane-

ous measurements of gas exchange

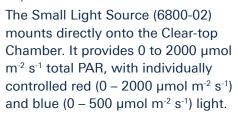
and chlorophyll a fluorescence from

the same leaf area. Choose a 6-cm<sup>2</sup>

or 2-cm<sup>2</sup> leaf area by swapping interchangeable apertures.

# Small Light Source (3x3 cm)

Requires chamber.





#### 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 µmol m<sup>-2</sup> s<sup>-1</sup> 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-cm<sup>2</sup> area leaf aperture. This chamber can be used with two Large Light Sources to illuminate both sides of the leaf or sprig.



### Soil CO<sub>2</sub> Flux Chamber

The Soil CO<sub>2</sub> Flux Chamber (6800-09) is used to measure the rate of diffusion of CO<sub>2</sub> 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 CO<sub>2</sub> and H<sub>2</sub>O 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  ${\rm CO_2}$  respiration from insects, very small animals, or small fruits.

#### **Global Headquarters**

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#### **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**: CO<sub>2</sub> Tank Adapter Kit Attach a tank of compressed CO<sub>2</sub> to the CO<sub>2</sub> 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.

