

## Control Modules



### CI-301LA

#### ■ Light Module

The Light Module allows researchers to adjust the light intensity above the leaf in the chamber to perform light-response curves and standardize light environment across measurements.



### CI-301AD

#### ■ Adjustable H<sub>2</sub>O & CO<sub>2</sub> Control Module

The H<sub>2</sub>O & CO<sub>2</sub> Control Module enables researchers to set or adjust the CO<sub>2</sub> and H<sub>2</sub>O concentrations in the incoming air stream in order to investigate leaf-level physiological responses.



### CI-510CS

#### ■ Temperature Control Module

The Temperature Control Module allows researchers to adjust the temperature of the leaf chamber to evaluate changes in photosynthetic rate relative to high or low temperatures.



### CI-510CF

#### ■ Chlorophyll Fluorescence Module

The Chlorophyll Fluorescence Module measures fluorescence simultaneously alongside gas-exchange measurements and provides researchers with information about changes in photosynthesis efficiency and heat dissipation from a leaf.

The control modules expand the use of the CI-340 and enable users to modify light intensity, manipulate CO<sub>2</sub> and H<sub>2</sub>O concentrations, adjust temperature, and measure chlorophyll fluorescence.

## Leaf Chambers



**LC-1**  
■ Square Leaf Chamber

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For open-system measurements of trees, shrubs and herbs with small, broad leaves.  
25 mm x 25 mm



**LC-2**  
■ Wide Rectangular Leaf Chamber

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For open-system measurements of trees, shrubs and herbs with small, regular leaves.  
55 mm x 20 mm



**LC-3**  
■ Narrow Rectangular Leaf Chamber

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For open-system measurements of grasses and grass-like leaves.  
65 mm x 10 mm



**LC-4**  
■ Small Cylindrical Leaf Chamber

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For open-system measurements of succulents and small-needled conifers.  
25 mm x 90 mm



**LC-5**  
■ Large Cylindrical Leaf Chamber

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For open-system measurements of large-needled conifers.  
50 mm x 70 mm



**LC-7**  
■ 1/4 Liter Leaf Chamber

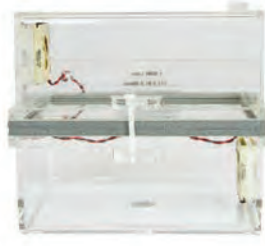
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For closed-system measurements of long, narrow leaves.  
104 mm x 33 mm x 73 mm



**LC-8**  
■ 1/2 Liter Leaf Chamber

For closed-system measurements of medium-sized leaves.  
89 mm x 66 mm x 86 mm



**LC-9**  
■ 1 Liter Leaf Chamber

For closed-system measurements of large leaves.  
112 mm x 91 mm x 99 mm



**LC-10**  
■ 4 Liter Leaf Chamber

For closed-system measurements of very large leaves.  
180 mm x 130 mm x 170 mm



**LC-11**  
■ Cactus Leaf Chamber

For measuring the leaves of Cacti with the CI-340 Handheld Photosynthesis System.  
Window size: 14.6 cm<sup>2</sup>



**CI-301SR**  
■ Soil Respiration Chamber

For measurements of CO<sub>2</sub> flux from soils.



**CI-301CC**  
■ Canopy Chamber Attachment

Interface between chamber and instrument which allows user to design and build their own custom chamber.



**F-9002L**  
■ Sample Chamber-2L

For measuring small fruits. Includes a solid bottom plate for closed air-tight measurement.



**F-9008L**  
■ Sample Chamber-8L

Air-tight chamber for measuring large fruits.



**F-900CW**  
■ Attachment Wand

Interface for the F-900 and any sample chamber. Also included in F-900RK Research Kit.