



Arabidopsis Chamber



For use with LCi and LCpro+ Portable Photosynthesis Systems



“A major advance in Arabidopsis gas exchange research”

- ◆ Unique “Position and Lock” mechanism
- ◆ Low profile
- ◆ 11mm or 16.5mm window diameter



Unique design

ADC BioScientific Ltd., world leaders in the development and manufacture of environmental research instrumentation now provide a REAL solution to a difficult problem: the measurement of gas exchange in Arabidopsis leaves and other small leaf plant species.

The ADC Arabidopsis chamber features a unique low-profile flexible arm that allows you to easily position the chamber onto the leaf, even when the leaf is close to the soil surface, without damaging the sample leaf or others in the proximity. The arm is then locked into position allowing accurate gas exchange measurements to be conducted.

LCi and LCpro+ compatible

The ADC Arabidopsis chamber head is available for use with either the ADC LCi or LCpro+ Portable Photosynthesis Systems. As with other leaf chamber heads, the Arabidopsis chamber head is quickly and easily exchanged in the field.

Two window sizes available

The chamber is available in two window sizes. The 11mm diameter Arabidopsis chamber is suitable for use on very small leaves, of many species. Because of the internal gas flow construction we recommend that this chamber is used on leaves smaller than 11mm.

For leaves larger than 11mm we recommend use of the 16.5mm window version of the chamber. This chamber, known as the Small leaf chamber, has a slightly different internal gas flow construction making it suitable for leaves larger than 16.5mm.

Microclimate control within the Arabidopsis chamber

When used in conjunction with the LCpro+ it is possible to automatically control the microclimate within the Arabidopsis and Small chambers.

CO₂ and H₂O can both be automatically controlled and programmed above and below ambient concentrations via the LCpro+ console. At the same time the LCpro+'s mixed red/blue LED light unit can be used to control PAR within the chamber.

Full details on how to control the microclimate within an Arabidopsis chamber is contained in our **Methods and Materials #26** application note, “**Controlling the microclimate within an LCpro+ Arabidopsis chamber**”.



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