

CPY-4

Canopy Assimilation Chamber

For use with the EGM and CIRAS

For over 25 years, PP Systems has been manufacturing leaf cuvettes and soil/canopy chambers for researchers worldwide.

The **CPY-4** is designed for closed system measurement of net canopy CO₂ flux of low lying vegetation. This chamber, which can be used with our popular EGM and CIRAS gas analyzers, includes sensors for measurement of air temperature and PAR (Photosynthetically Active Radiation). The PAR sensor is fitted onto a custom, flexible holder which allows the user to conveniently place the sensor at many different locations within the chamber. The rugged, transparent **CPY-4** enclosure includes a tapered stainless steel base making it easy to seal to the soil surface or to collars placed in the field. An air mixing fan and custom manifold system ensures excellent stirring and uniform circulation within the chamber. Supplied complete with water vapor equilibrators.



The CPY-4 shown above with the EGM-4
Environmental Gas Monitor for CO₂



Technical Specification

Construction

Rugged, transparent enclosure with tapered stainless steel ring (10 mm)

Dimensions

145 mm Height x 146 mm Diameter

Exposed Area

167 cm²

Volume

2,427 ml (with ring inserted 5 mm into soil)
2,344 ml (with ring inserted 10 mm into soil)

PAR Sensor

Filtered silicon cell (fully cosine corrected)
Range: 0-3,000 $\mu\text{mol m}^{-2} \text{s}^{-1}$

Temperature Sensor

Precision Thermistor
Range: 0-50 °C

Air Mixing Fan

12V DC

Electrical Connector

15 pin D Connector (An adapter cable & gas connector set is required for use with CIRAS-2)

Operating Temperature Range

0-50 °C

Weight

0.9 kg



The CPY-4 can be used with the CIRAS-2
Portable, Differential CO₂ & H₂O Gas
Analyzer

*For further information,
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