

PORTABLE GAS MEASURING CHAMBER OPAQUE

Ø 131.4 X H 150 MM, FOR OUTDOOR GAS FLOW
MEASUREMENTS

- Flexible gas measurement under field conditions
- Clearly defined measurement, high accuracy
- Available as a closed-path application (closed, recirculating system with no negative pressure under the hood) or an open-path application (non-recirculating system)
- Includes: base frame, fan (DC axial fan, height-adjustable), connection for hoses/tubing, gasket
- Solar power bank with field mount and USB cable, for standalone operation of the fan
- Can be combined with existing measurement equipment



APPLICATIONS

- For measuring gas fluxes from soil respiration and dark respiration of plant metabolism
- Suitable for mobile measurements: gas chamber for temporary enclosure to determine time-varying gas fluxes
- Suitable for long-term monitoring: base frame can remain in the field and enables repeated measurements at the same position to monitor the accumulation and depletion of gas fractions
- Designed for use with gas analyzers, e.g. Picarro
- Customizable to the plant stand and research question
- Optionally equipped with a pressure equalization valve or pressure equalization tube for quick placement of the chamber



RELATED ARTICLES

For measuring all gas fluxes involved in plant metabolism, UGT also offers a transparent gas measurement chamber available in closed-path and open-path configurations.

TECHNICAL DATA

PARAMETER	SPECIFICATIONS
Diameter / Overall height	Øi 131.4 / 150 mm
Material	PPE
Weight	~0.5 kg
SEALING TAPE	
Height x Width	3 x 10 mm
Material	EPDM (cellular rubber strip), 15 Shore
DC AXIAL FAN	
Diameter	Ø 25 mm
Weight	0.3 kg
Material	PA-GF
C-CLAMPS	
Dimensions	24 x 32 x 30 mm
BASE FRAME	
Diameter / Height	Øi 131.4, Øa 140 / 50 mm
Material	PPE
Weight	~0.2 kg
POWERBANK HOLDER	
Dimensions H x B X T	562 x 87 x 117 mm
Material	Chromium-nickel steel 1.4301
Weight	0.6 kg