

CORE SYSTEMS**FL-0001**

FLEC Cell

**Overview**

The FLEC Cell (Field and Laboratory Emission Cell) is manufactured from acid-resistant stainless steel with polished internal surfaces. Its compact geometry minimises internal surface area and helps reduce sink effects compared with conventional chambers. The outlet design allows air to be collected on one or two sampling tubes while maintaining a small, constant overpressure in the cell. FLEC can be used for laboratory measurements, non-destructive testing on installed surfaces and production-line quality control, including wood flooring, paints and coatings.

**FLEC Cell - back side**

See page 2 for specifications and system requirements.

[Product page and quotation enquiry](#)

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FLEC Cell - specifications

Specifications

Product code	FL-0001
Weight	4 kg
Dimensions	Cylindrical; outside diameter 200 mm. Height excluding fittings: 20 mm. Height including fittings: 85 mm
Test material surface area	177 cm ² (circular)
Test chamber volume	35 cm ³
Air exchange rate	100-1000 per hour
Air velocity over test material	0.35-1.75 cm/s
Test chamber surface area	180 cm ²
Air inlet flow	100-500 ml/min
Air outlet flow to sample tubes	80-400 ml/min
Air outlet flow to vent	20-100 ml/min
Material in contact with the sample stream	Certified solid, acid-resisting, polished stainless steel (all internal contact surfaces are mirror-polished to minimize sink effects).
Connection to air supply	Two 1/4" PFA tubes, Swagelok Teflon cone
Connection for sample tubes	Two 1/4" sample tubes can be connected for simultaneous sampling

System requirements

Air supply	The FLEC Cell must be supplied with well-controlled, clean and humidified air, e.g. FLEC Air Control FL-1000
Suction pumps	Precision suction pumps for sample tubes can be used

Select airflow and sampling conditions according to the applicable method and your material. Contact CHEMATEC for configuration guidance.

[Product page and quotation enquiry](#)