

SCENTROID SF450

FLUX CHAMBER

The Scentroid flux chamber (AKA Emission Isolation Flux Hood) is used to determine levels of emissions from solid or liquid surfaces. The SF450 has a 100% solid stainless steel construction to ensure zero cross contamination. Flotation is achieved using 4 stainless steel floats eliminating the need for rubber tubes or foam making the unit easy to clean and maintain.

► HOW IT WORKS

The flux chamber is set up to enclose a surface area of 240 Sq Inches or 0.155 sq meters in accordance to the EPA Recommendations. Odourless air or nitrogen (sweep air) is introduced to the chamber at a known flow rate (Recommended 6 LPM) to mix with the emissions. Sample is then drawn from the flux chamber at lower rate using a sampling device such as the SB10 Vacuum Sample box.



► FEATURES

- Designed for both solid and liquid surface sample collection.
- 100% stainless steel construction.
- Stainless steel floats (no foam or rubber tubes needed for liquid surface sampling).
- Stainless steel fitting for sweep air (clean air), sample air, Relief flow, and temperature probe .
- Extra fitting for thermocouple probe (sold separately).
- Stainless steel chain and hoist ring.
- 450 mm (17") diameter with enclosed surface area of 0.155 sq meters (240 sq inches).
- Recommended sweep air of 6 LPM.
- Standard fittings designed for 1/4" or 12 mm OD PTFE tubing for sweep and sample air (custom size fitting available).



► SCENTROID

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Flux Chamber designed for both solid and liquid surface sample collections.



› Flux Chamber Applications

- Emission Measurement from Liquid surfaces such as settling tanks and off-spec ponds.
- Emission Measurement from Solid surfaces such as compost piles and sludge
- Emission Measurement from liquid active sources such as aerated lagoons
- Ideal for sampling of corrosive sources e.g. with high benzene or H₂S content
- Ideal for field operations that require quick decontamination

› Flux Chamber Basic of Operation

- Connect the sweep air line to nitrogen or zero air cylinder
- Move the Flux Chamber to sampling location
- Allow time for 2 air exchanges inside the chamber
- Pull sample with vacuum chamber
- For aerate liquid sources sweep air may not be required



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