

SF450

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 3.875 LPM) to mix with the emissions. Sample is then drawn from the flux chamber at lower rate using a sampling device such 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 separably).
-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 3.875 LPM.
-Standard fittings designed for 1/4" or 12 mm OD PTFE tubing for sweep and sample air (custom size fitting available).



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SF450



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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