

# PUF (Polyurethane Foam) Sampler

## Polyurethane Foam System

The PUF (PolyUrethane Foam) Sampler is a complete air sampling system designed to simultaneously collect suspended airborne particulates as well as trap airborne vapors at flow rates up to 280 liters per minute. The Model PS-1 features the latest in technological advances for accurately measuring airborne particulates and vapors. PUF Sampler is equipped with a bypass blower motor arranged with an independent cooling fan. This feature permits the motor to operate at low sampling flow rates for extended periods without motor failure from overheating.

A dual chambered aluminum sampling module contains both filtering systems. The upper chamber supports the airborne particulate filter media in a circular filter holder. The lower chamber encapsulates a glass cartridge which contains the PolyUrethane Foam for vapor entrapment.

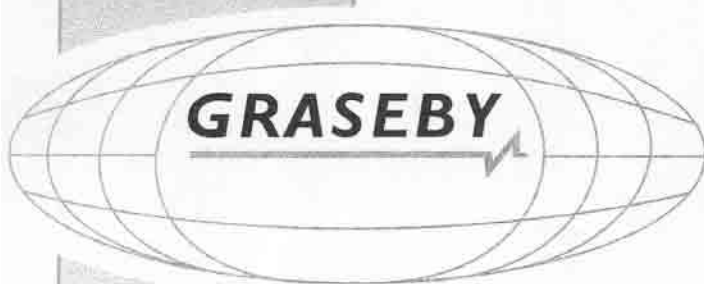
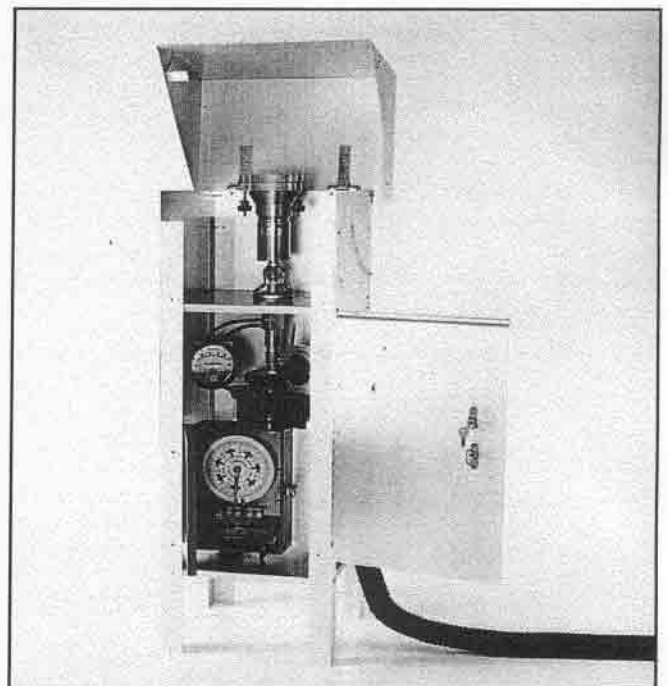
Polyurethane foam or wet/dry granular solid media can be used individually or in combination. The dual chambered sampling module is designed for easy access to both upper and lower media. The threaded lower canister is removed with the cartridge intact for immediate exchange. Filter support screens and module components are equipped with gaskets providing a leak proof seal during the sampling process.

Air flow rates are infinitely variable up to 280 liters per minute. The voltage variator adjustment screw alters the blower motor speed to achieve the desired flow rate. Air flow rate is measured through the flow venturi utilizing a 0-100" Magnehelic Gage. Periodic calibration is necessary to maintain on-site sampling accuracy.

A Seven Day Mechanical Timer is included as standard equipment and permits weekly scheduling with individual settings for each day and 14 trippers to turn the sampler on and off. Any day or days may be omitted and day and night periods are distinctly marked. Other timers and programmers are available optionally to suit any sampling requirement.

### Features:

- Samples for Semivolatile Organic Compounds
- Special Design for Sampling Airborne Particulates and Vapor Contamination from Pesticide Compounds
- Efficiently Collects a Number of Organochlorine and Organophosphate Pesticides
- Bypass Blower Motor Permits Continuous Sampling for Extended Periods at Rates to 280 lpm
- Aluminum Anodized Shelter
- In accordance with U.S. EPA Method TO4, "Method for the Determination of Organochlorine Pesticides and Polychlorinated Biphenyl in Ambient Air"



## Models GSPI

Model GPS1: Polyurethane Foam (PUF) Sampling

System includes:

GPS111 Blower/Motor

GPS11 Dual Sampling Module

GPS19 Flow Venturi

GPS16 Voltage Variator/Elapsed Time Indicator

GPS18 Magnehelic Gauge

GPS17 Seven Day Skip Timer

GPS119 Anodized Aluminum Shelter

## Accessories & Spare Parts

GPS11: Dual Sampling Module with GFH2104 4"

Filter Holder, less glass cartridge

GPS12: 4" Round Filter Holder (GFH2104)

GPS13: Silicone Gasket (top module)

GPS14: Glass Cartridge with support screens

GPS15: Silicone Gasket (bottom module)

GPS16: Voltage Variator/ETI, 115V/60Hz

GPS17: Seven-Day Mechanical Timer (G70),  
115V/60Hz

GPS18: Magnehelic Gage, 0-100

GPS19: Flow Venturi

GPS110: Flow Valve

GPS111: Blower/Motor Assembly, 115V/60Hz

GPS112: Motor Cushion (G2005)

GPS113: Motor Only, 115V/60Hz

GPS114: Motor Brushes, set of two (GBI)

GPS115: Exhaust Hose, 10' Length

GPS116: 3" PUF Plug

GPS117: 2" PUF Plug

GPS118: 1" PUF Plug

GPS119: Anodized Aluminum Shelter

GPS120: Male Adapter, for bottom of module

GPS121: Aluminum Quick Connect Coupler

G40: Calibration Kit: includes calibrating orifice  
assembly with gasket, roll-up style  
manometer, 1/4" tubing, carrying case, and  
NBS curve

G40A: Calibrating Orifice and gasket only with  
NBS curve

GQMA4: Pure-Quartz Filters (102mm dia),  
box of 100

## Specifications:

Amperage:	8.0
Wattage:	960
Max. Flow Rate:	280 liters per minute
Weight:	25 lbs (11.34 kg) in standard configuration
Power Source:	115volt, 60Hz or 22volt, 50/60Hz
Net Weight:	65 lbs
Shipping Weight:	75 lbs