

# Thermo Scientific PUF Air Sampling System

A high volume air sampler for the collection of airborne volatile organic compounds and particulate matter.

The Thermo Scientific™ PUF Air Sampler is designed to meet international and US EPA reference standards for high volume air sampling.

- Samples for semi-volatile organic compounds
- Complies with U.S. EPA Methods T04A, T09A and T013A
- Aluminum anodized shelter for outdoor use
- Air flow rates up to 280 liters per minute
- Bypass blower motor with independent cooling fan



The Thermo Scientific™ PUF (Polyurethane Foam Sampler) sampling system is a complete air sampling system designed to simultaneously collect suspended airborne particulate as well as trap organic vapors at flow rates up to 280 liters per minute.

The dual chambered sampling module of the PUF System is designed for easy access to both upper and low media. The threaded lower canister is removed with the cartridge intact for immediate exchange.

The PUF System 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.

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

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.

A seven day mechanical timer is included and permits weekly scheduling with the individual settings for each day and 14 trippers to turn the sampler on and off.



PUF Air Sampler

## Thermo Scientific PUF Sampling Systems

Amperage	8.0
Wattage maximum	960
Flow rate	280 liters per minute
Power source	115 v, 60 Hz or 220 volt, 50/60 Hz
Net weight	65 lbs (29 kg)
Shipping Dimensions	
Shelter	48" (122 cm) × 20" (51 cm) × 20" (51 cm); 74 lbs (34 kg)
Lid	19" (48 cm) H × 14" (35 cm) × 14" (35 cm); 9 lbs (4 kg)

### Additional Information

The information below will provide more details regarding the U.S. EPA Methods that the PUF Sampling System is in compliance with:

Complies with U.S. EPA **Method TO-4A** for the determination of Organochlorine Pesticides and Polychlorinated Biphenyl in Ambient Air

Complies with U.S. EPA **Method TO-9A** for the determination of Polychlorinated Dibenzo-p-Dioxins (PCDDs) in Ambient Air using High Resolution Gas Chromatography. High Resolution Mass Spectrometry (HRGG.HRMS)

Complies with U.S. EPA **Method TO-13A** for the determination of BENZO(a)Pyrene and [B(a)P] and other Polynuclear Aromatic Hydrocarbons (PAHs) in Ambient Air using Gas Chromatograph (GC) and High Performance Liquid Chromatographic (HPLS) analysis.

### Ordering Information

To order your **PUF Sampling System** select from the following options:

Model Number	Voltage	Brushed/Brushless
GPS-1	110V/60Hz	Brushed
GPS-11	220v/50Hz	Brushed
GPS-BL	110V/ 60Hz	Brushless
GPS11-BL	220V/50Hz	Brushless

For more information, visit our website at [thermoscientific.com/air](http://thermoscientific.com/air)

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