

ACTI-VOC PLUS™

ACTI-VOC PLUS™ is a reliable, fast-flow pump kit for sampling VOCs and SVOCs onto sorbent tubes for analysis using thermal desorption (TD).

Powerful pumped sampling for TD

Pumped sampling of air onto sorbent tubes is one of the most versatile methods for sampling VOCs and SVOCs.

Using ACTI-VOC PLUS, precise volumes from 20 mL to several hundred litres can be drawn through the tubes, allowing analytes over a wide concentration range to be sampled and analysed, reliably and quantitatively.

Versatile and reliable

The ACTI-VOC PLUS is capable of sampling at rates ranging from 20 mL/min up to 500 mL/min, making it suitable for a range of applications.

In addition, it automatically compensates for different impedances, ensuring constant flows for a variety of TD tube types.

Broad analyte range

Using ACTI-VOC PLUS in combination with multi-sorbent tubes also allows the full power and versatility of TD to be realised, by allowing analytes ranging in volatility from C₃ to n-C₄₀ to be sampled and then analysed simultaneously.

The ACTI-VOC PLUS is particularly well-suited for sampling semi-volatile organic compounds (SVOCs) such as phthalates and PAHs, which typically require flows above 300 mL/min.



The ACTI-VOC PLUS kit contains:

- ACTI-VOC PLUS pump
- Tubing and adaptors providing push-fit connections to TD tubes
- CapLok tool for simplified tube capping
 - Tool for flow range adjustment
- Docking station with mains charger
 - Convenient carry-case

Product highlights

- Constant-flow sampling from 20–500 mL/min
- High maximum flow rate for sampling SVOCs
- Programmable-duration sampling
- Flow & volume recording
- Intrinsically safe
- Long battery life ensures stable performance over 8 hours
- Charges in <3½ hours
- No need to recalibrate when switching between tubes of differing impedance

Smart, flexible sampling

The ACTI-VOC PLUS has an intuitive menu and user-friendly buttons for navigation. This makes it easy to set-up and adjust flows.

It can also be programmed to allow air to be sampled at a given time, for a defined duration and flow rate, providing flexibility for unattended monitoring.

The ACTI-VOC PLUS also records sampling flows and volumes, for easy checking of a completed run.



Broad application range

The wide dynamic flow-range of the ACTI-VOC PLUS makes it suitable for a range of air and gas sampling applications:

- Ambient air monitoring
- Indoor air
- Outdoor air
- Workplace monitoring
- Material emissions testing





**Order your
ACTI-VOC PLUS
today**

Please contact your regional distributor or one of our offices (details below).

Technical specification

Part number

- C-FFP-01

Flow range

- Constant-flow mode: 20–500 mL/min (note that external pump flow calibration requires a digital flowmeter)
- Flow control: $\pm 5\%$ of set point or ± 3 mL/min, whichever is greater

Back-pressure capability

- 8 hour run-time for 500 mL/min and up to 40" H₂O

Operating conditions

- Temperature: 0°C to 45°C
- Relative humidity: 5–95%

Electrical rating

- Battery: Rechargeable NiMH
- Run time: 8 hour
- Charge time: <3.5 hours
- Intrinsically safe

Sorbent tube compatibility

- Industry-standard tubes (3½" × ¼" o.d.)
- Any 6 mm o.d. tube

Dimensions

- Width: 109 mm (4.3")
- Height: 61 mm (2.4")
- Length: 61 mm (2.4")

Weight

- Main unit: 581 g (20.5 oz)

Additional features

- Displays flow rate, sample time and volume
- Automatic flow-fault indication and recovery
- Belt clip
- Flow adjustment via button interface
- Inlet sampling filter
- Multi-language capabilities: English, Spanish, French, Italian, Dutch, Portuguese and German

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