

Sampling Solutions for Ambient Air

Introduction

Pollutant levels in ambient air are monitored over a long period by measuring the number and kinds of pollutants in the surrounding outdoor air.

SKC offers active and passive sampling solutions for some compounds present in fertilizers, pesticides, poultry farming/processing, and food additives. SKC active samplers require an air sample pump to collect hazardous gases and vapours in air; passive samplers collect hazardous vapours by diffusion without the use of an air sample pump.



See the SKC equipment recommended for sampling the following compounds in ambient air monitoring:

- Formaldehyde
- Pesticides, PCBs and PAHs
- Volatile organic compounds (VOCs)
- Particulate Matter
- Nitrogen dioxide

SKC Sampling Solutions

For over 50 years, SKC has led the research, design, and manufacture of quality sampling equipment and media to aid health and safety professionals in the evaluation of occupational and environmental hazards. SKC method-based sampling solutions for ambient air monitoring include air sample pumps, active and passive samplers, filter cassettes, sorbent tubes and innovative portable instruments.

Air Sample Pumps



Samplers



Sampling Media



Portable Instruments



Sample Collection

Active Air Sampling Solutions

Target Compound	Select Methods*	SKC Sample Collection Media and Part No.	SKC Sample Pump and Part No.	Notes
Formaldehyde	TO-11A	Sorbent tube 226-119 or 226-120	AirChek TOUCH 220-5000TC	
PAHs	ASTM D6209 EPA TO-13A	PUF tube 226-131 and quartz filter 225-1808	-	
	Modification of methods above	Filter/PUF 226-206 or filter/PUF/ XAD-2/PUF 226-207	Deployable Cartridge Sampler 100-3960	
	NIOSH 5506	Preloaded filter cassette 225-1713 (pre-filter) and sorbent tube 226-30-04	AirChek TOUCH 220-5000TC	
PCBs	EPA TO-10A	PUF tube 226-92 or 226-124	AirChek TOUCH 220-5000TC	
	EPA TO-4A	PUF tube 226-131 and quartz filter 225-1808	-	
	Modification of methods above	Media cartridge containing filter/ PUF 226-206 or filter/PUF/ XAD-2/PUF 226-207	Deployable Cartridge Sampler 100-3960	
Pesticides	EPA TO-10A	PUF tube 226-92 or 226-124	AirChek TOUCH 220-5000TC	
	EPA TO-4A	PUF tube 226-131 and quartz filter 225-1808	-	
	Modification of methods above	Media cartridge containing filter/ PUF 226-206 or filter/PUF/ XAD-2/PUF 226-207	Deployable Cartridge Sampler 100-3960	
VOCs	EPA TO-17A	Thermal desorption tube 226-300 Series	Pocket Pump TOUCH 220-1000TC	

* Other methods may apply. SKC recommends those listed.

Passive Air Sampling Solutions

Target Compound	Select Methods* / SKC Validation	SKC Sample Collection Media/Sampler and Part No.	Notes
Nitrogen dioxide and/or sulphur dioxide	Research Reports 1789 and 1781	UME ^x 200 500-200	
Organic vapours	Research Report 1667	ULTRA 690 Series	

* Other methods may apply. SKC recommends those listed.

Monitoring Solutions

Target Compound	SKC Sample Collection Media/Sampler and Part No.	Notes
PM10 and 2.5	Particulate Monitors	Custom configured
VOCs	HAZ-SCANNER EPAS	Custom configured