

Air Sampling Kits



Celebrating 50 Years of Air Sampling Innovations



SKC

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Air Sampling Pump Kits

Air sampling is generally carried out to ensure that workplace or environmental air is meeting regulatory standards and to help Occupational Hygiene and Health & Safety professionals assess employee exposure to airborne hazards. There are strict limits for exposure to hazardous substances, and these are published by regulatory authorities such as the HSE, NIOSH, OSHA, or the EPA.

Most airborne contaminants, whether they come in the form of dusts and particulates or gases and vapours, will also have a recommended method of sampling. Where there is no specific method for a particular hazard, there are often methods for the type of contaminant such as MDHS 14/3 for general dusts, or MDHS 96 for general gases and vapours.

At SKC we have an extensive range of pumps available, with different specifications for the environment you are sampling in, along with any required sampling media such as filters, sorbent tubes, and sample bags. We also supply calibration equipment and accessories such as protective pouches and longer length tubing up to 15m.

This guide is designed to take you through the kits we can offer to get you started with air sampling.

Step One - identify the hazards

If you know what hazards you need to sample for go to Step Two. If you are not sure, then we recommend you consult Material Safety Data Sheets (MSDS) or COSHH guidelines that can help identify what contaminants may be around. Alternatively speak to HSE, or contact us.

Step Two – choose your kit

Now simply choose a kit that meets your needs. Our kits are available with one or five pumps and in four configurations:

- **Basic – starter option with no sampling accessories**
- **Dust – with accessories for dust/particulate sampling**
- **Vapour – with accessories for gas/vapour sampling**
- **Combined – with accessories for both dust and vapour sampling**

Step Three - choose your pump and calibrator

Whatever contaminants you need to sample for, we will have a pump and calibrator for the job.

Please contact our knowledgeable and friendly technical support team who can guide you in the selection that is right for you.

To place your order and for further information on SKC products and services, please contact SKC technical sales on:

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Air Sampling Pump Kits



Basic Kit

This is a great entry level kit containing the absolute basics; a pump, charger and connective tubing in a carry case. Choose this kit if your application is non-standard or if you already have sampling accessories for your application.

The carry case is the same size as for our other kits, meaning you have room to add your own accessories as you go.

- Pump of your choice (5*)**
- Battery Charger (5 station charger)**
- Mini Tool Kit (5)**
- Durable Carry Case**
- 1m Length of Tygon Tubing (5)**
- Step by Step Guide (3)**



**Figures in brackets indicate 5 pump kit quantities*

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Dust Kit

Our dust kit is ideal for all kinds of dust and particulate sampling and includes sampling accessories suitable for either inhalable or respirable dusts.

The IOM multi-dust sampler is designed for both inhalable and respirable dusts and the Cyclone designed specifically for respirable dust.

Pump of your choice (5)

Battery Charger (5 station charger)

MiniTool Kit (5)

Durable Carry Case

1m Length of Tygon Tubing (5)

Step by Step Guide (3)

Calidaptor

Plastic I.O.M Multidust Sampler (5)

5 Multidust cassettes (15)

Plastic Cyclone (5)

5 cyclone cassettes (10)

Instruction manual (5)

Common Applications

General dusts as per MDHS 14/3; dusts from metals, wood, grain, flour, stone, coal, cement and many others.



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Vapour Kit

Most gases and vapours are sampled using sorbent tubes and our vapour kit has the necessary equipment for this including a tube holder and cover to protect the tube. It also includes accessories designed to enable sampling at the low flow rates required for most sorbent tubes.

Pump of your choice (5)

Battery Charger (5 station charger)

Mini Tool Kit (5)

Durable Carry Case

1m Length of Tygon Tubing (5)

Step by Step Guide (3)

Single adjustable Tube-Holder (5)

Type A protective cover (5)

Constant Pressure Controller (5)

Tube Breaker

Common Applications

General gases and vapours as per MDHS 96; organic vapours, volatile organic compounds (VOCs), solvents, alcohols, anaesthetics and many others.



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Combined Kit

When you have multiple applications and are required to sample for both dusts and for gases and vapours, choose our combined kit.

It contains all the accessories for dust sampling including sample heads and cassettes, as well as all the accessories for gas and vapour sampling including tube holders and covers.

Pump of your choice (5)

Battery Charger (5 station charger)

MiniTool Kit (5)

Durable Carry Case

1m Length of Tygon Tubing (5)

Step by Step Guide (3)

Calidaptor

Plastic IOM Multidust Sampler (5)

5 Multidust cassettes (15)

Plastic Cyclone (5)

5 cyclone cassettes (15)

Single adjustable

Tube Holder (5)

Type A protective

Tube Cover (5)

Constant Pressure

Controller (5)

Tube Breaker



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Calibrators

For absolute sample integrity your pump needs to be calibrated accurately before and after each sample. The most accurate option, suitable for a wide range of flow rates, is an electronic flowmeter such as the Bios Defender. The Defender is available in 3 models and is built on DryCal technology.

All 3 models are available for either High (300-30,000ml/min), Medium (50-50,000ml/min) or Low (5,500ml/min) flow ranges.



Description	Part Number
Defender 510 with 1% volumetric accuracy	717-510LA
	717-510MA
	717-510HA
Defender 520 with 1% volumetric accuracy; measures ambient temperature and pressure	717-520LA
	717-520MA
	717-520HA
Defender 530 with 1% volumetric accuracy and standardised accuracy	717-530LA
	717-530MA
	717-530HA
Tubing Adaptor for sorbent tubes with OD 6,7, or 8mm	717-511
Pelican Case for Defender	717-501

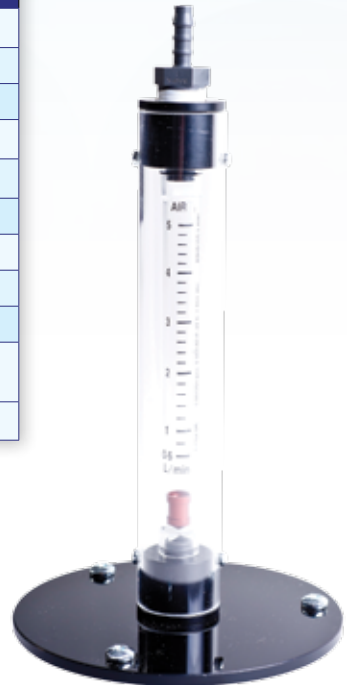
The most economical option, suitable for medium to high flow rates is a Rotameter. These are simple flowmeters that have 2.5% full-scale accuracy if calibrated against a primary standard such as the Defender.

393-0334
300-3400 ml/min

393-0650
600-5000 ml/min

393-1150
1000-13000 ml/min

393-2260
2000-26000 ml/min



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Air Sampling Pumps

Features	Pocket Pump	AirChek 3000	Sidekick	Universal	Airlite	AirChek XR5000
						
Flow Range ml/min	20 to 225	5 to 3250	5 to 3000	5 to 5000 or 5 to 4000	5 to 3000	5 to 5000
ATEX Approved	Yes	Yes	Yes	Yes	No	No (UL Approved)
Battery Type	NiMH	NiMH	NiMH	NiMH	Alkaline	Lithium-Ion or Alkaline
Weight (grams)	142	624	567	964	304	454
Programmable	Yes	Yes	No	Yes (Deluxe model only)	No	Yes
PC Compatible	Yes	Yes	No	No	No	No
Key Applications	Vapours	Dust	Dust/ Vapours	Dust/ Vapours	Dust/ Vapours	Dust/Vapours/ Environmental

High Flow Pumps

For some specific applications, higher flow rates are recommended. These applications include:

- Asbestos sampling
- Environmental particulate sampling
- Bio aerosol sampling

For higher flow rates we can offer personal pumps such as the Leland Legacy or area pumps such as the Flite 2. For more information on these pumps and the kits available, please contact us.



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Service and Calibration

Don't forget that we recommend an annual service and calibration not only for our pumps but also for our calibrators to check they are within specifications. For more information on our servicing options contact our Technical Sales team.

Training Courses

SKC regularly hold ONE day practical training courses in air monitoring.

The course is suitable for beginners through to those wanting a refresher. It can be tailored and run in-house and is a mixture of theory and practical sessions.

The course includes:

- Introduction to air sampling methods
- Exposure limits – what they are and how to monitor for them
- Dust/gas/vapour sampling – how, when and why – the recognised methods
- Practical sampling exercises with equipment.

For dates and further information, please contact SKC on:
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