Passive Sampling

Support, Knowledge, Choice

SKC Passive Samplers are ready to use and offer reliable and economical Air Sampling.

Available for personal and area sampling, SKC offers samplers for a wide variety of chemical hazards to meet OSHA, NIOSH, HSE and ASTM methods.

Our guide featured in the ampling Guides area of this site will assist in the selection of a suitable passive sampler.

Validation for Compliance Sampling

Due to their design, passive (diffusive) samplers require extensive testing to ensure sample validity. Passive samplers can be validated to different protocols including OSHA, NIOSH, ANSI, and ASTM.

Validation for 575 Series Passive (Diffusive) Samplers

SKC 575 Series Passive Samplers for organic vapours have been validated to the rigorous NIOSH and ANSI testing protocols. SKC established the following validation levels based on NIOSH protocol:

Full Passed all NIOSH Partial validation protocol and factorial study, including interfering compounds; most rigorous test; includes all parameters affecting sampling accuracy.

Bi-level A key member of a homologous series passed Full validation, all others passed partial. Validity shown by Guild et al (reference available upon request).

Partial Passed NIOSH protocol for sampling rate, desorption efficiency, humidity effects, reverse diffusion, and storage stability (reactive compounds).
Calculated - Uptake Rate = D x (A/L)."D" is a diffusion coefficient calculated from the Hierschfelder Equation. "A/L" is a constant based on the geometry of the sampler.

SKC Passive Sampling Guide

The SKC Passive Sampling Guide is organised by chemical name for easy use.The guide contains complete specifications on SKC 575 Series Passive Samplers and a range of other passive-type samplers. For compliance sampling, it is recommended that only those passive samplers with agency, Full, or Bi-level validation be used. Passive samplers with lower validation levels should be used only if verified by sorbent tube methods.