SKC IFV Pro Sampler

Inhalable-fraction aerosol and vapour sampler for mixed-phase contaminants at 1 L/min



Some workplace chemicals are airborne as particles and as vapour at once, and both phases add to the exposure. The IFV Pro Sampler collects them together: the inhalable fraction on a 25 mm filter behind an IOM-style inlet, the vapour in a sorbent tube chosen for the compound. It is made for the ACGIH TLVs with an IFV designation.

1 L/min	100 µm	25 mm	8 × 110 mm	2.4 oz
Flow rate	50 % cut-point	Filter diameter	Sorbent tube	Weight

Performance

Flow rate	1 L/min, recommended for collecting both phases
50 % cut-point [1]	100 µm at 1 L/min, inhalable fraction
Aerosol phase	Inhalable fraction on a 25 mm filter in the cassette
Vapour phase	Collected at the same time in an 8 × 110 mm sorbent tube
Analysis	Gravimetric and chemical

Operating conditions

Maximum operating temperature	392 °F (200 °C); suitable for autoclaving and solvent washing

Mechanical

Sampling head	Stainless steel front plate and filter cassette; aluminium clip, housing and outlet
Inlet [1]	IOM-style, 10.6 mm diameter cassette inlet
Tube holder	Black rubber
Protective tube cover	Plastic
Size	8.5 × 1.2 in (21.6 × 3.17 cm), length × diameter
Weight	2.4 oz (68 g)
Tubing	For 1/4" ID tubing

Compliance

Standard	Meets EN 13936 by collecting the total of vapour and aerosol exposure

Media and pump

Filters	25 mm glass fibre or quartz; or coated filter
Sorbent tubes [2]	8 × 110 mm, chosen for the compound
Pump	SKC AirChek TOUCH series, set to 1 L/min

Applications

Mixed-phase contaminants	Pesticides, polyaromatic hydrocarbons (PAHs), inorganic acids and explosives
ACGIH IFV designation	Over 50 compounds with a TLV and an Inhalable Fraction and Vapour endnote; see the filter and tube selection guide

Setting up

1 Aerosol phase	Place the cassette, loaded with a 25 mm filter, in the sampling head
2 Vapour phase	Push the opened sorbent tube into the tube holder on the sampling head
3 Sampling	Tubing to the free end of the tube, tube cover screwed onto the head base, tubing to the pump; start

Filter and tube selection guide

Filter 225-702, tube 226-30-06	Alachlor, Aldrin, Azinphos-methyl, Carbaryl, Carbofuran, Chlorpyrifos, Clopidol, Coumaphos, Demeton, Demeton S-methyl, Diazinon, Dibutyl phosphate Dichlorvos, Dicrotophos, Dieldrin, Dioxathion, Disulfoton, Endosulfan, Fenamiphos, Fensulfothion, Fenthion, Fonofos, Malathion, Methomyl Methyl demeton, Methyl parathion, Mevinphos, Monocrotophos, Naled, Parathion, Phorate, Propoxur, Ronnel, Sulfotepp, Sulprofos, Temephos Terbufos, Thiram
Filter 225-702, tube 226-10-04	Acrylamide, 2-Ethylhexanoic acid, Monochloroacetic acid, 1,1,2,2-Tetrabromoethane, Xylidene isomers
Filter 225-702, tube 226-211	Butylated hydroxytoluene, Cresol (all isomers), Pentachlorophenol
Filter 225-702, tube 226-09-50_	Diesel fuel as total hydrocarbons
Filter 225-702, tube 226-214	Diethanolamine
Filter 225-702, tube 226-83	o-Phthalodinitrile
Filter 225-702, tube 226-106A	Tetraethylpyrophosphate (TEPP)
Glyoxal	Filter: ask Analyt-MTC; tube 226-119-7
Maleic anhydride	Filter and tube: ask Analyt-MTC
Toluene-2,4- and 2,6-diisocyanate	Filter: ask Analyt-MTC; no sorbent tube

Ordering codes

Order code	Description	Supplied with
225-49	IFV Pro Sampler	Head, cassette, tube cover, cap, 10 tube holders, transport container
225-49K	IFV Pro Sampler Kit	As 225-49, plus calibration adaptor and case

Order from Analyt-MTC with the order codes. Both need a 25 mm filter and a sorbent tube, ordered separately.

Accessories

Calibration adaptor	225-361
Filter cassette, stainless steel, with cap and container	225-4903
25 mm glass fibre filter	225-702
Tube holders (rubber sleeves), pack of 25; change after each sample	Ask Analyt-MTC
IFV Pro cassette transport vial	Ask Analyt-MTC

Notes

1. The 10.6 mm cassette inlet follows the inhalable convention, scaled down from the IOM design (Vincent et al., 2003, NIOSH-CDC Grant RO1-OH 03687-03).
2. Pick the sorbent tube the analytical method specifies for the compound. The filter and tube selection guide lists the filter and tube suggested for each compound.

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