

# Iodine Cartridge



**Iodine cartridges are intended for sampling of radioactive airborne iodine in either molecular (I<sub>2</sub>) or organic (CH<sub>3</sub>I) form in a wide range of air sampling and monitoring equipment.**

## Purpose

Iodine cartridges are intended for sampling of radioactive airborne iodine in either molecular (I<sub>2</sub>) or organic (CH<sub>3</sub>I) form in a wide range of air sampling and monitoring equipment. Subsequently, the radioactive pollutants retained on the filter sample can be analysed and iodine air content determined.

## Description

Filtering cartridges are polypropylene rigid capsules filled with TEDA (Triethylene Diamine) impregnated activated carbon. Sides of cartridges are provided with a grid through which the sampled medium flows.

The pressure drop is low and do not limit the velocity of monitored circuit. The retention efficiency of iodine cartridges depends on the sampled air humidity and temperature.

Flow Rate rel. humidity 95%, 30 °C (86 °F) [ l/m ] / [ cfm ]	Retention Efficiency, CH <sub>3</sub> I [ % ]		Pressure Drop [ kPa ] / [ mmHg ]	
	TC-45	TC-30	TC-45	TC-30
28.3 / 1	99.6	99.4	1.0 / 7.5	0.7 / 5.3
56.6 / 2	96.0	94.6	2.4 / 18	1.6 / 12
84.9 / 3	92.0	86.6	4.7 / 35	3.3 / 25

## Specifications

Filter media	Activated Carbon impregnated with 5% TEDA
Recommended air flow, max.	56.6 l/min (2 cfm)
Maximal air flow	113.2 l/min (4 cfm)
Recommended operational temperature, max.	73 °C (163.4 °F)
Dimensions (Ø x H)	57.1 x 25.3 mm (2¼ x 1 in)

## Models and Accessories

Model	Description
K1346-01	TC-45 Carbon Cartridge
K1346-02	TC-30 Carbon Cartridge
Related products	
K0743	VOPV-12 Digital High-Volume Air Sampler
K0547	VOPV-10 Digital High-Volume Air Sampler

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