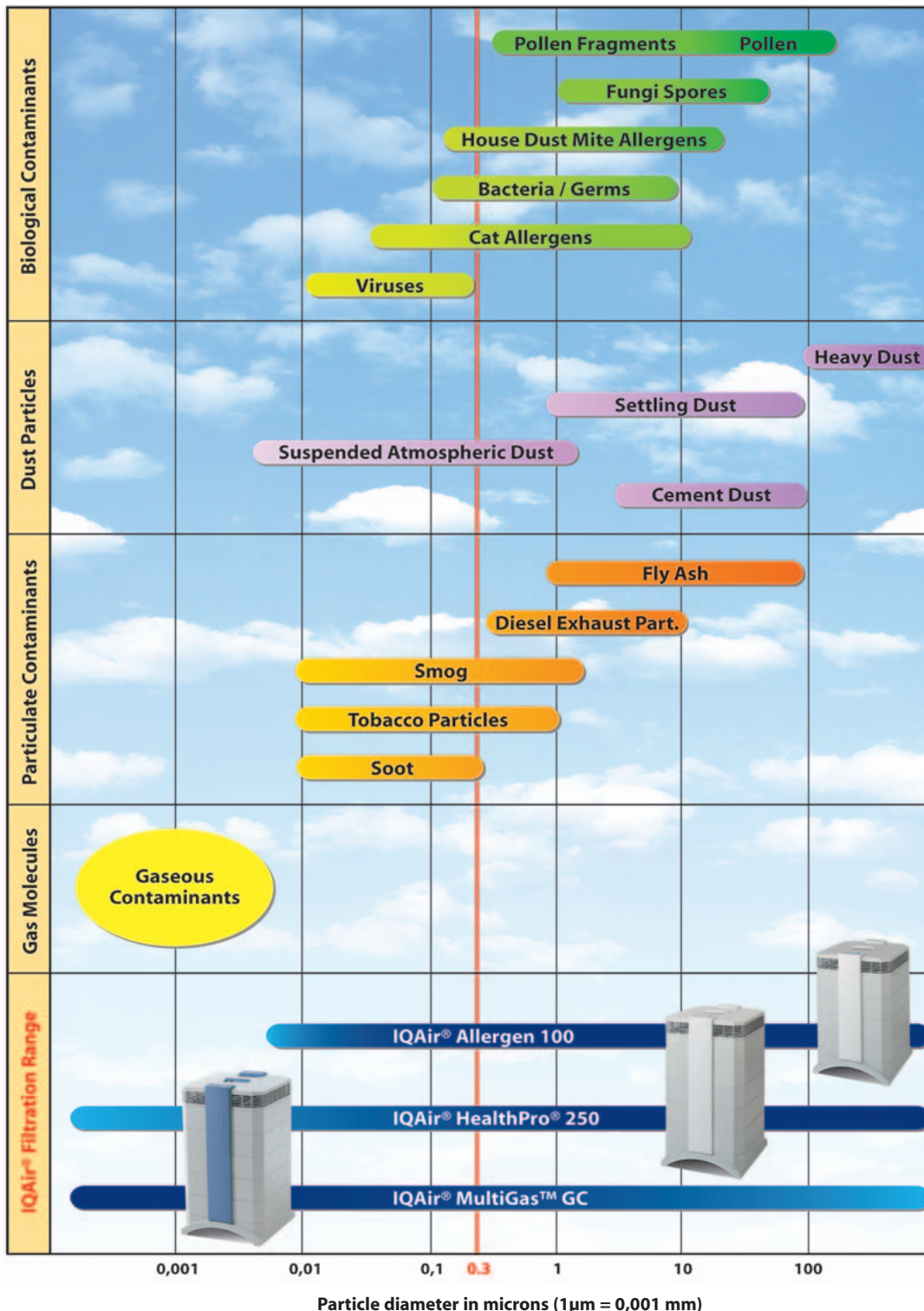


IQAir® Filtration Spectrum of Air Pollutants

Various filter media are required for the efficient filtration of air pollutants. Every IQAir® System is optimised for the filtration of specific air pollutants. Air pollutants can be divided into two main categories:

1. Particulate airborne pollutants (bacteria, coarse and fine dust, pollen, soot, viruses etc.)
2. Gaseous airborne pollutants (odours, formaldehydes, pesticides, traffic and industrial emissions etc.)

The following table shows which IQAir® system is suitable for which airborne pollutant. The darker the blue stripe, the better the filtration efficiency of the IQAir® system for the respective pollutant. If the filtration of specific gases and odours is desirable, the list on the reverse side should be viewed.



IQ MB-Filtrationsspe. 4803 GB

IQAir® Model Selection Chart for Gaseous Contaminant Control

Most of the below chemicals have a corresponding IQAir® model that is recommended for the control of that particular gaseous contaminant. The selection of the IQAir® models is based upon light concentrations of these contaminants, i.e. generally 10 PPM or less. The tests were undertaken by the media manufacturers.

Chemical Name	Physical State	Formula	Odour Characteristics	Recommended IQAir® Model
Acetaldehyde	Liquid	CH ₃ CHO	penetrating, fruity	IQAir® ChemiSorber
Acetic acid	Liquid	CH ₃ COOH	strong vinegar-like	IQAir® MultiGas™ (IQAir® HealthPro®)**
Acetone	Liquid	(CH ₃) ₂ CO	Characteristic odor	IQAir® MultiGas™ (IQAir® HealthPro®)**
Acetylene	Gas	HC≡CH	not unpleasant when pure, but disagreeable when impure	IQAir® ChemiSorber
Acrolein	Liquid	CH ₂ =CHCHO	piercing, disagreeable; causes tears	IQAir® MultiGas™ (IQAir® HealthPro®)**
Acrylonitrile	Liquid	CH ₂ =CHCN	mild	IQAir® MultiGas™ (IQAir® HealthPro®)**
Ammonia	Gas	NH ₃	penetrating, pungent, suffocating	IQAir® AM
Arsine	Gas	AsH ₃	disagreeable garlic	IQAir® ChemiSorber
Benzene	Liquid	C ₆ H ₆	characteristic	IQAir® VOC
1,3 Butadiene	Gas	CH ₂ =CHCH=CH ₂	mild aromatic	IQAir® MultiGas™ (IQAir® HealthPro®)**
Butane	Gas	C ₄ H ₁₀	odorless	IQAir® VOC
Butyric acid	Liquid	CH ₃ CH ₂ CH ₂ COOH	unpleasant, rancid	IQAir® MultiGas™ (IQAir® HealthPro®)**
Carbon disulfide	Liquid	CS ₂	strong, disagreeable, or sweetish	IQAir® MultiGas™ (IQAir® HealthPro®)**
Carbon tetrachloride	Liquid	CCl ₄	ether-like	IQAir® VOC
Chlorine	Gas	Cl ₂	suffocating, irritating	IQAir® VOC
Chlorine dioxide	Gas	ClO ₂	unpleasant, similar to that of chlorine and reminiscent of nitric acid	IQAir® MultiGas™ (IQAir® HealthPro®)**
Chloroform	Liquid	CHCl ₃	pleasant, sweet	IQAir® VOC
Chloropicrine	Liquid	CCl ₃ NO ₂	sharp, penetrating, causes tears	IQAir® VOC
Cresol	Liquid	CH ₃ C ₆ H ₄ OH	phenolic	IQAir® MultiGas™ (IQAir® HealthPro®)**
Cyclohexane	Liquid	C ₆ H ₁₂	mild, sweet, resembling chloroform or benzene	IQAir® VOC
Cyclohexanone	Liquid	C ₆ H ₁₀ O	reminiscent of peppermint and acetone	IQAir® MultiGas™ (IQAir® HealthPro®)**
1,1 Dichloroethane	Liquid	CHCl ₂ CH ₃	chloroform-like	IQAir® VOC
Diethylamine	Liquid	(C ₂ H ₅) ₂ NH	fishy, ammonia-like	IQAir® MultiGas™ (IQAir® HealthPro®)**
Dimethylamine	Gas	(CH ₃) ₂ NH	pungent, fishy or ammonia-like	IQAir® MultiGas™ (IQAir® HealthPro®)**
Ethanol	Liquid	C ₂ H ₅ OH	pleasant, sweet	IQAir® MultiGas™ (IQAir® HealthPro®)**
Ethyl acetate	Liquid	CH ₃ COOC ₂ H ₅	pleasant, fruity	IQAir® MultiGas™ (IQAir® HealthPro®)**
Ethyl acrylate	Liquid	CH ₂ =CHCOOC ₂ H ₅	sharp, acrid	IQAir® MultiGas™ (IQAir® HealthPro®)**
Ethylamine	Liquid	CH ₃ CH ₂ NH ₂	ammonia-like	IQAir® MultiGas™ (IQAir® HealthPro®)**
Ethylene	Gas	CH ₂ CH ₂	sweet	IQAir® ChemiSorber
Ethylene oxide	Gas	C ₂ H ₄ O	-	IQAir® VOC
Formaldehyde	Gas	HCHO	pungent, suffocating	IQAir® ChemiSorber
Formic acid	Liquid	HCOOH	pungent, penetrating	IQAir® MultiGas™ (IQAir® HealthPro®)**
Freon 11	Gas	CCl ₃ F	faint ether-like	IQAir® VOC
Hydrazine	Liquid	H ₂ NNH ₂	penetrating, resembling that of ammonia	IQAir® ChemiSorber
Hydrogen chloride	Gas	HCl	irritating, pungent	IQAir® MultiGas™ (IQAir® HealthPro®)**
Hydrogen cyanide	Gas	HCN	bitter almond-like	IQAir® ChemiSorber
Hydrogen sulfide	Gas	H ₂ S	strong, like rotten eggs	IQAir® ChemiSorber
Indole	Solid	C ₈ H ₇ N	intense, fecal	IQAir® VOC
Isoprene	Liquid	CH ₂ C=CHCH=CH ₂	-	IQAir® MultiGas™ (IQAir® HealthPro®)**
Isopropanol	Liquid	CH ₃ CHOHCH ₃	like rubbing alcohol	IQAir® MultiGas™ (IQAir® HealthPro®)**
Methanol	Liquid	CH ₃ OH	slight alcoholic odor when pure	IQAir® MultiGas™ (IQAir® HealthPro®)**
Methyl acrylate	Liquid	CH ₂ =CHCOOCH ₃	sharp, sweet, fruity	IQAir® MultiGas™ (IQAir® HealthPro®)**
Methyl chloride	Gas	CH ₃ Cl	faint, sweet odor, not noticeable at dangerous concentrations	IQAir® VOC
Methyl chloroform	Liquid	CH ₂ CCl ₃	mild, like chloroform	IQAir® VOC
Methyl disulfide	Liquid	CH ₃ SSCH ₃	disagreeable	IQAir® MultiGas™ (IQAir® HealthPro®)**
Methyl ethyl ketone	Liquid	CH ₃ COCH ₂ CH ₃	acetone-like	IQAir® MultiGas™ (IQAir® HealthPro®)**
Methyl mercaptan	Gas	CH ₃ SH	like rotten cabbage	IQAir® MultiGas™ (IQAir® HealthPro®)**
Methyl sulfide	Liquid	(CH ₃) ₂ S	disagreeable	IQAir® MultiGas™ (IQAir® HealthPro®)**
Methyl vinyl ketone	Liquid	CH ₂ COCH=CH ₂	pungent	IQAir® MultiGas™ (IQAir® HealthPro®)**
Methylamine	Gas	CH ₃ NH ₂	strong ammoniacal odor, but more fishy, particularly at lower concentr.	IQAir® MultiGas™ (IQAir® HealthPro®)**
Methylene chloride	Liquid	CH ₂ Cl ₂	like chloroform	IQAir® VOC
Nitric Oxide	Gas	NO	sharp, sweet	IQAir® ChemiSorber
Nitrobenzene	Liquid	C ₆ H ₅ NO ₂	like black paste shoe polish	IQAir® VOC
Nitrogen dioxide	Gas	NO ₂	pungent, acrid	IQAir® ChemiSorber
Nitroglycerine	Liquid	CH ₂ NO ₂ CHNO ₂ CH ₂ NO ₂	-	IQAir® MultiGas™ (IQAir® HealthPro®)**
Ozone	Gas	O ₃	pleasant, characteristic in concentrations less than 2 ppm	IQAir® MultiGas™ (IQAir® HealthPro®)**
Phenol	Solid	C ₆ H ₅ OH	characteristic, sweet tarry	IQAir® MultiGas™ (IQAir® HealthPro®)**
Phosgene	Gas	COCl ₂	low concentr.: sweet, like hay; high concentr.: sharp, pungent	IQAir® VOC
Phosphine	Gas	PH ₃	fishy	IQAir® ChemiSorber
Pyridine	Liquid	C ₅ H ₅ N	penetrating, sickening	IQAir® VOC
Silane	Gas	SiH ₄	repulsive	IQAir® ChemiSorber
Skatole	Solid	C ₉ H ₇ N	fecal	IQAir® MultiGas™ (IQAir® HealthPro®)**
Styrene	Liquid	C ₆ H ₅ CH=CH ₂	low concentr.: sweet aromatic; high concentr.: sharp, disagreeable	IQAir® MultiGas™ (IQAir® HealthPro®)**
Sulfur dioxide	Gas	SO ₂	strong, suffocating	IQAir® ChemiSorber
Sulfuric acid	Liquid	H ₂ SO ₄	odorless	IQAir® VOC
Sulfur trioxide	Gas	SO ₃	-	IQAir® MultiGas™ (IQAir® HealthPro®)**
Toluene	Liquid	C ₆ H ₅ CH ₃	benzene-like	IQAir® VOC
Trichloroethylene	Liquid	CCl ₂ =CHCl	characteristic odor resembling chloroform	IQAir® MultiGas™ (IQAir® HealthPro®)**
Triethylamine	Liquid	(C ₂ H ₅) ₃ N	strong, ammonia-like, fishy	IQAir® MultiGas™ (IQAir® HealthPro®)**
Trimethylamine	Gas	(CH ₃) ₃ N	pungent, fishy, ammonia-like odor	IQAir® MultiGas™ (IQAir® HealthPro®)**
Vinyl chloride	Gas	CH ₂ =CHCl	ether-like odor	IQAir® MultiGas™ (IQAir® HealthPro®)**
Xylene	Liquid	C ₆ H ₄ (CH ₃) ₂	aromatic odor	IQAir® VOC

Important Note: Although specific IQAir® models may be recommended for the control of certain contaminants, the manufacturers make no claim as to the specific air cleaning results that can be achieved under the user's individual operating conditions. The actual indoor air quality improvements that can be achieved with air cleaning systems depend not only on the system's performance, but also on factors which are specific to that indoor environment. Important factors which will influence the air quality improvements include, intensity of the contaminant and its source, the size of the indoor environment, the operating speed of the system, the number of air cleaners placed in the environment and the state of saturation of the individual filter elements.

* no laboratory test work

** the IQAir® HealthPro® alternative is only recommended for lower chemical concentrations