

**IQAir® New Edition**

# GC/GCX Series

## Professional Control of Gaseous Pollutants and Odours

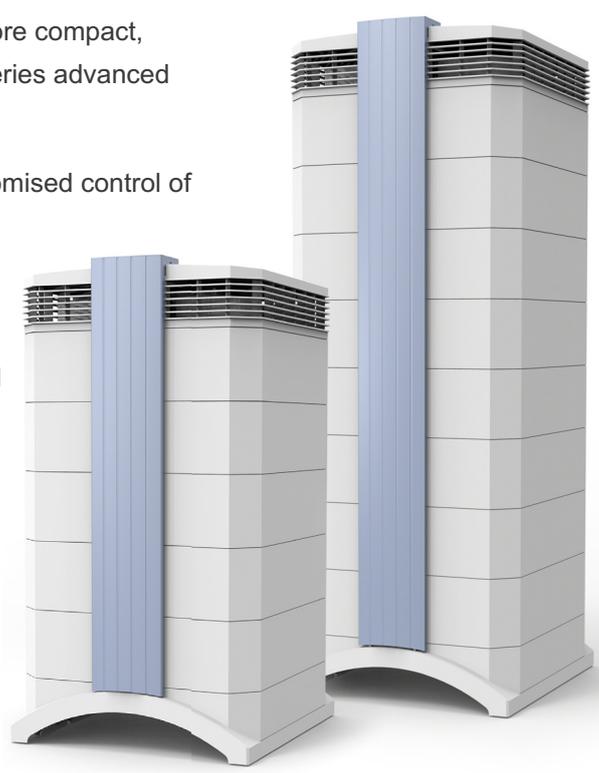


Never before has gaseous contaminant control been more compact, versatile and affordable than with IQAir GC and GCX Series advanced filtration systems.

A broad range of gas phase filter cartridges allows customised control of almost any gaseous pollutant and odour problem.

With close to 15 kg of specially formulated gas phase filter media, the systems are perfectly suited to take control of gaseous contaminants in medical, commercial and research facilities as well as homes and offices with elevated pollution levels.

The system's HEPA pre-filter ensures that airborne particulates, such as microorganisms, are removed with an efficiency of up to 99%.



## The Chemical, Gas and Odour Specialists

IQAir systems are used by world leading research laboratories, hospitals and corporations to provide customised air cleaning solutions for critical indoor environments. The GC and GCX advanced air cleaning systems are designed to meet almost any contaminant removal need in professional and residential indoor environments. Since different gaseous contaminants can be filtered most effectively with specialised gas phase media, a range of different gas phase filtration media types are available for the GC and GCX systems.



## Gas Cartridge Technology

Each GC/GCX system contains four filter cartridges that hold up to 14.6 kg (GC: 7.8 kg) of gas phase filtration media. The cylindrical shape of the cartridges allows for optimum contact between the contaminated air and the filter media, thus ensuring maximum removal efficiency. The large surface area of the cartridges enables high airflow rates to be maintained.

Five gas and odour control filter cartridges offer special granulated filter media for the control of a wide range or specific gaseous substances and odours:



**VOC:** for higher molecular gaseous pollutants, inclusive a broad variety of odour-causing organic compounds (e.g. dimethylamine), VOCs (e.g. benzene, toluene, xylene), solvents (e.g. cyclohexane, carbon disulphide, turpentine, trichloroethylene), alcohols (e.g. methanol, propanol), aromatic hydrocarbons (e.g. naphthalene, styrene), alkenes, esters (e.g. ethyl acetate) and ozone, etc.



**ChemiSorber:** for a broad range of chemical pollutants inclusive many lower molecular aldehydes (e.g. formaldehyde) and organic acids (e.g. acrylic acid, acetic acid), sulfuric oxides (e.g. sulfur dioxide, sulfur trioxide) and nitrogen oxides (nitrogen monoxide, nitrogen dioxide), etc.



**MultiGas™:** for a broad spectrum of gaseous pollutants and odours, inclusive hydrocarbons, volatile organic compounds (VOCs), sulfuric oxides, formaldehyde, hydrogen sulphide, lower molecular aldehydes and organic acids, nitrogen oxides, higher molecular gases, odours, ozone, etc.



**AM:** for ammonia, amines (e.g. methylamine, triethylamine), etc.



**AcidPro™:** for sour gases inclusive caproic acid, caprylic acid, chlorine, formic acid, hydrobromic acid, hydrochloric acid, nitric acid, dinitrogen monoxide, sulfuric acid, etc.

## High-Efficiency Particulate Filtration



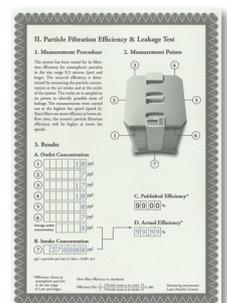
GC HEPA Pre-Filter

GCX HEPA Pre-Filter

The particulate filtration of the GC and GCX systems complements the gaseous filtration process by removing up to 99% of particulates before they can reach the gas phase media. This increases the efficiency and life of the media by preventing its pores from clogging with particles. The systems' overall filtration efficiency for airborne particles is  $\geq 99\%$  at  $\geq 0.3 \mu\text{m}$ , including PM<sub>2.5</sub>, allergens, bacteria and viruses.

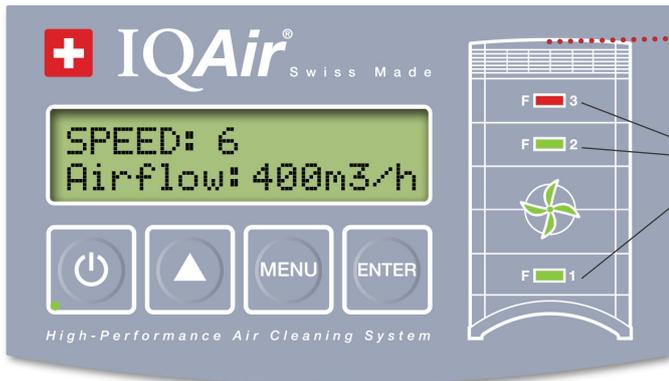
## Certified Performance

Each system is individually tested and certified. A hand-signed certificate of performance provides the results of the filtration efficiency and airflow test performed on the system. IQAir guarantees a minimum total system efficiency of 99% for airborne particles  $\geq 0.3 \mu\text{m}$  and a maximum air delivery rate of up to 400 m<sup>3</sup>/h for all GC models and 540 m<sup>3</sup>/h for all GCX models.



## Sophisticated Controls

IQAir's user-friendly control panel with LCD enables easy access to unique programming and menu options.



The sleek ultra-thin remote control allows convenient operation from several meters distance.

Three filter life LEDs on the control panel provide a visual signal when it is time to replace a filter.



**Individually certified** – IQAir applies the highest quality control standards. Each air purifier is individually tested for filtration efficiency and air delivery. The results are recorded on a hand-signed Certificate of Performance supplied with every IQAir model.

6 fan speed settings allow the selection of the most suitable performance/sound ratio.



**Intelligent filter life monitor** – calculates when it is time to replace filters, taking actual use, fan speed and programmed pollution levels into account.



**Advanced timer programming** – allows the system to switch on automatically at specified times, weekdays and fan speeds.

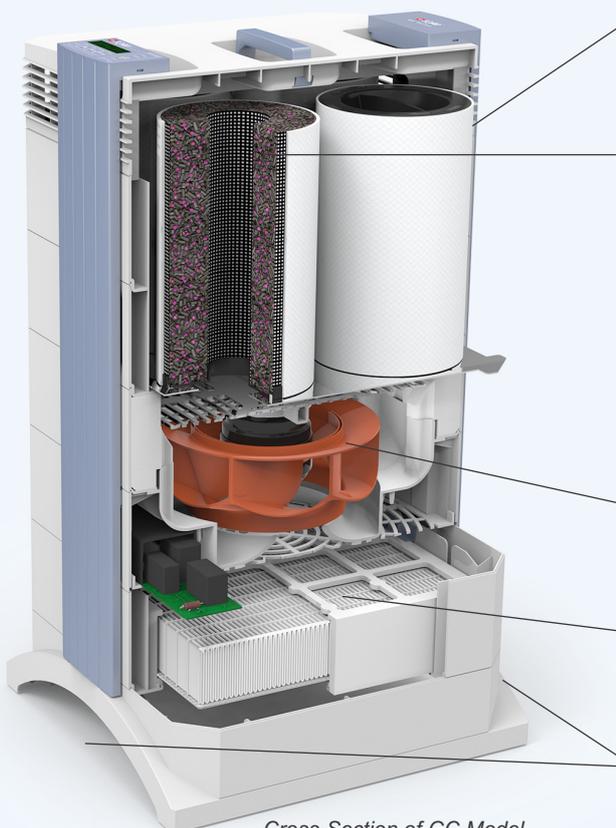


The patented IQAir housing design permits quick and safe replacement of the individual filter elements without any tools.



The deluxe casters supplied with each GC Series model allow the system to be moved effortlessly from room to room. Once the system is positioned, two caster locks ensure that it remains in place.

## Features



Cross-Section of GC Model

### Post-Filter Sleeves

- electrostatically charged fibre filter
- captures dust from gas phase media

### Gas Phase Filter Cartridges

- four cartridges with a total gas phase media weight of up to 7.8 kg per unit (GCX: 14.6 kg)
- large selection of gas phase cartridges, e.g.:
  - VOC (volatile organic compound control)
  - MultiGas™ (wide spectrum gas & odour control)
  - ChemiSorber (formaldehyde, hydrogen sulfide, nitric oxide and sulfur dioxide control, etc.)
  - AM (ammonia and amines control)
  - AcidPro (acid vapour control)

### High-Performance Centrifugal Fan

- max. air delivery with filters: 400 m<sup>3</sup>/h (GCX: 540 m<sup>3</sup>/h)
- low energy consumption: 20-140 watts (at 230V,50Hz)

### HEPA (High-Efficiency Particulate Air) Filter

- ≥ 99% efficiency at ≥ 0.3 μm (class H11)
- prolongs life of gas phase filter

### Dual Air Intake

- maximum distance from air outlet prevents immediate re-intake of cleaned air (short-cutting)

# The Leading Air Filtration Specialist



For over 50 years, the IQAir Group has been an industry leader for indoor air quality.

**IQAir systems are built exclusively in Switzerland to the highest quality standards and in accordance with strict international norms.**

**Leading institutions around the world are relying on IQAir to protect against airborne infectious diseases, toxic chemicals and particulate contaminants.**

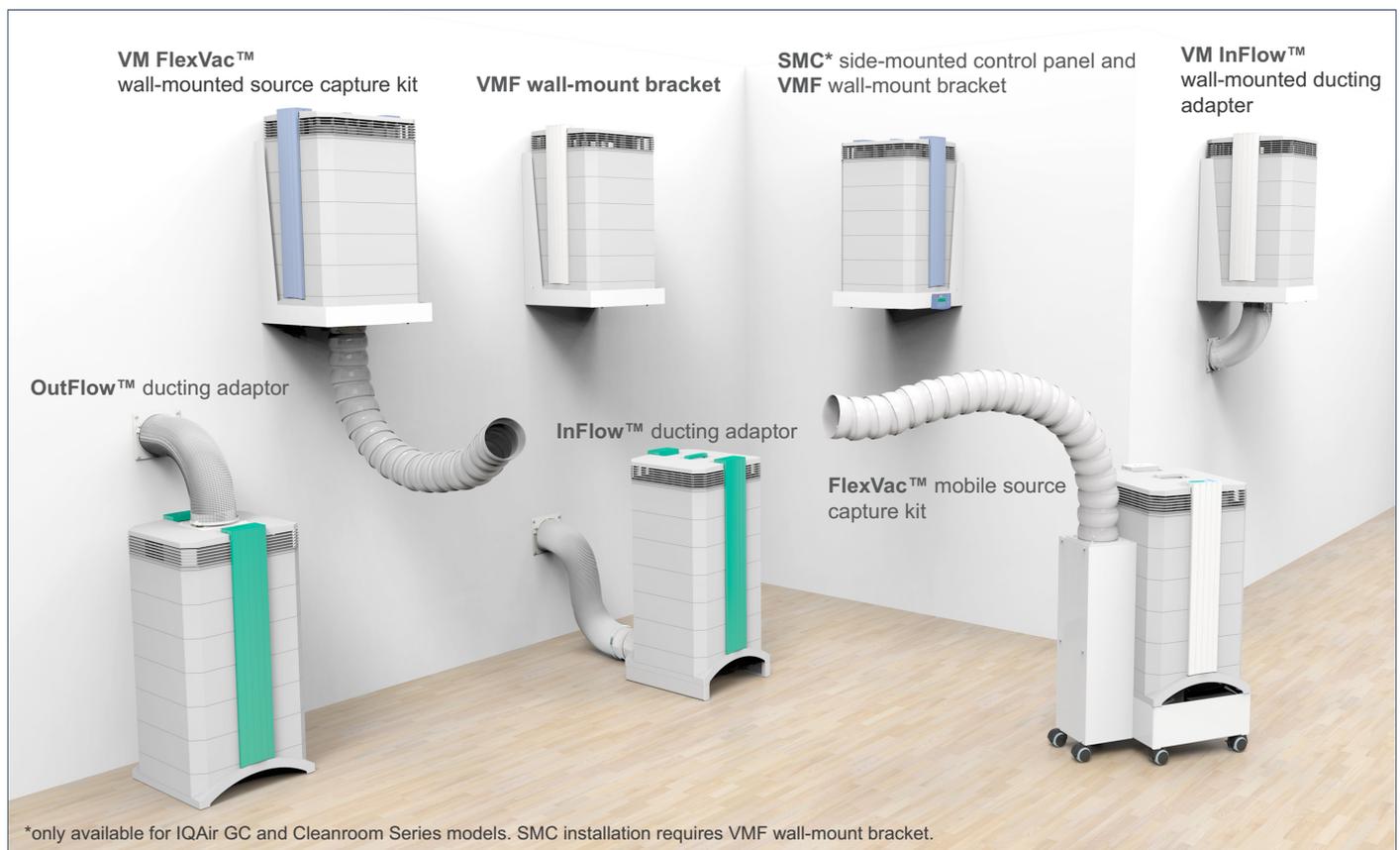
**Whenever the best air quality is required, IQAir provides a powerful solution.**

## Applications for the IQAir® GC and GCX systems include:

- Workshops with solvent contamination
- Autopsy labs & mortuaries
- Dissecting rooms
- Hair, nail & beauty salons
- Homes & offices close to traffic and industry
- Incontinence wards
- Laser surgery
- Medical & pharmaceutical labs
- DNA Microarray labs
- Rooms with elevated concentrations of tobacco smoke
- Veterinary environments
- Art restoration and conservation

## Accessories

A wide range of special accessories allows IQAir GC and GCX systems to be adapted to meet individual requirements. Options include wall-mounting creation of pressure differentials between rooms, to contain or keep out harmful pollutants and capturing pollutants right at their source.



		<b>GC Series</b>		<b>GCX Series</b>		
						
<b>Filtration Capacity &amp; Efficiency</b>	<b>Allergens</b> (pet dander, pollen, mould spores etc.)		✓✓✓✓		✓✓✓✓✓	
	<b>Odours</b>		✓✓✓✓✓		✓✓✓✓✓✓	
	<b>Fine Dust and Particular Matter</b>		✓✓✓✓		✓✓✓✓✓	
	<b>Chemicals</b>		✓✓✓✓✓		✓✓✓✓✓✓	
	<b>Tobacco Smoke</b>		✓✓✓✓✓		✓✓✓✓✓✓	
	<b>Bacteria and Viruses</b>		✓✓✓✓		✓✓✓✓✓	
	<b>Total System Efficiency for Particles</b>		≥99% @ ≥0.3 µm (certified)			
<b>Filters</b>	<b>Pre-filter</b>	<b>Type/Description</b>	<b>GC HEPA Pre-Filter H11 (S)</b> High-capacity pre-filter (class H11) for the control of coarse, fine & ultra-fine dust particles		<b>GCX HEPA Pre-Filter H11 (XL)</b> High-capacity pre-filter (class H11) for the control of coarse, fine & ultra-fine dust particles	
		<b>approx. Filter Life †</b>	9-15 months		18-24 months	
		<b>Surface area</b>	3.0 m²		7.5 m²	
	<b>Gas- &amp; Odour Filter</b>	<b>Type/Description</b>	<b>GC Filter Cartridge Set</b> for the control of a wide range of specific chemical substances and odours 5 types of filter media available: MultiGas™, VOC, ChemiSorber, AM, AcidPro™		<b>GCX Filter Cartridge Set</b> for the control of a wide range of specific chemical substances and odours 5 types of filter media available: MultiGas™, VOC, ChemiSorber, AM, AcidPro™	
		<b>approx. Filter Life †</b>	18-30 months		30-42 months	
		<b>Weight</b>	4.2 - 7.8 kg		7.8 - 14.6 kg	
	<b>Particle Filter</b>	<b>Type/Description</b>	<b>GC Post-Filter Sleeve Set</b> Electrostatically charged fibre filters for the removal of fine and ultrafine particles		<b>GCX Post-Filter Sleeve Set</b> Electrostatically charged fibre filters for the removal of fine and ultrafine particles	
		<b>approx. Filter Life †</b>	18-30 months		30-42 months	
		<b>Surface area</b>	0.5 m²		0.9 m²	
<b>Technical Specifications</b>	<b>Air Delivery per level (m³/h)*</b>		1: 50, 2: 90, 3: 150, 4: 220, 5: 280, 6: 400 m³/h		1: 60, 2:120, 3: 190, 4: 270, 5: 380, 6: 540 m³/h	
	<b>Suitable for Rooms up to</b>		75 m²		105 m²	
	<b>Sound Pressure / Power Level per level*</b>		L <sub>1</sub> : 22, 2: 33, 3: 41, 4: 47, 5: 52, 6: 57 dB(A); L <sub>w</sub> 1: 32, 2: 43, 3: 51, 4: 57, 5: 62, 6: 67 dB(A)			
	<b>Dimensions</b>		71 x 41 x 38 cm		102 x 41 x 38 cm	
	<b>Weight (incl. Filter)</b>		approx. 19 - 22 kg		approx. 26 - 33 kg	
<b>Features &amp; Accessories</b>	<b>Standard Equipment</b>		Intelligent filter life monitor ● Filter replacement LED ● Advanced timer ● 6 fan speeds ● 4 display languages ● 4-key touch-pad with 2 line LCD display ● High-performance centrifugal backward curved fan ● Remote control (incl. battery) ● Certificate of performance			
			Deluxe casters ● Power cord with plug		Anti-tampering arm lock ● Anti-tampering power cord lock ● Lockable power cord with plug	
	<b>Optional Accessories</b>		VMF (wall-mount bracket) ● PF40 (coarse dust pre-filter) ● InFlow, VM InFlow & OutFlow (positive/negative pressure duct connections) ● FlexVac & VM FlexVac (mobile & wall-mounted source capture kits)			
			SMC (side-mounted control panel)		Mobility Deluxe Casters	
<b>Origin / Guarantee</b>		Made in Switzerland / 3 years (without filters)**		Made in Switzerland / 2 years (without filters)		

\* measured at 230V, 50Hz; tolerance ±10% (± 10 m³/h); \*\* Warranty is limited to one (1) year when used in commercial/professional applications.

† The filter life estimate is based on the following assumptions: Average usage (12 hours/day), average fan speed (3) and average pollution concentrations. Actual filter life will depend on actual usage conditions.