

# GC Series

Professional Control of Gaseous Pollutants and Odours

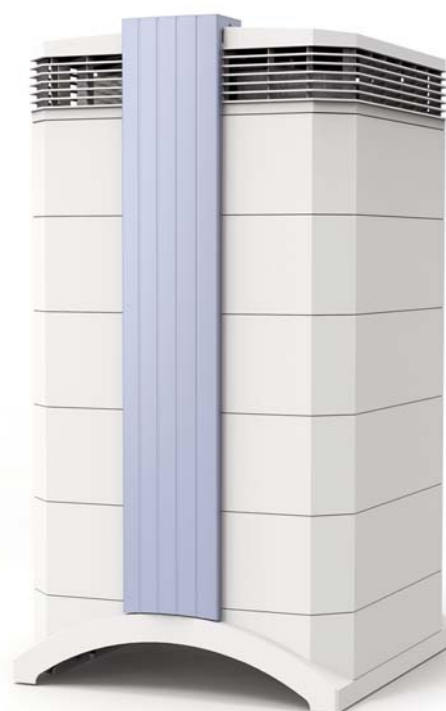


Never before has gaseous contaminant control been more compact, versatile and affordable than with IQAir GC advanced filtration systems.

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

With up to 8 kg of specially formulated gas phase filter media, IQAir GC systems are perfectly suited to take control of gaseous contaminants in residential, commercial or medical environments.

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



## GC Series: 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 IQAir GC Series is a specialised line of advanced air cleaning systems that meets almost any contaminant removal need in residential, commercial and medical environments. Since different gaseous contaminants can be filtered most effectively with specialised gas phase media, IQAir GC systems are available with a range of special GC gas cartridges.



### GC (Gas Cartridge) Technology

Each IQAir GC system contains four filter cartridges that hold up to 8 kg of gas phase filtration media. The cylindrical shape of the cartridges allows for optimum contact between the contaminated air and gas phase 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:



**GC 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.



**GC 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.



**GC 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.



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



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

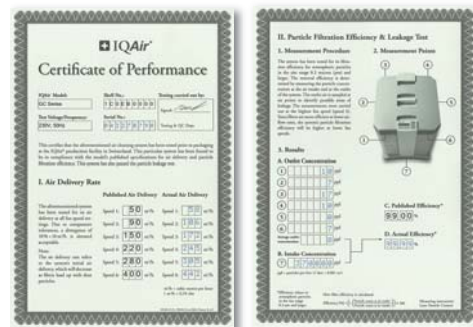
### High-Efficiency Particulate Filtration

The particulate filtration in IQAir GC systems complements the gaseous filtration process by removing over 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 IQAir GC systems' overall filtration efficiency for airborne particles is up to 99% at  $\geq 0,3 \mu\text{m}$ , including PM<sub>2.5</sub>, allergens, bacteria and viruses.



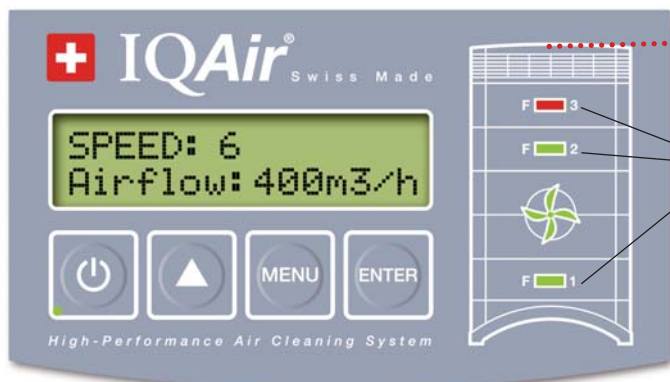
### Certified Performance

Each IQAir GC system is individually tested and certified. A handsigned 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.



## 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.

REMAINING LIFE  
FILTER 1: 3012h

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

AUTO TIMER: ON  
07:30 → 18:00

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

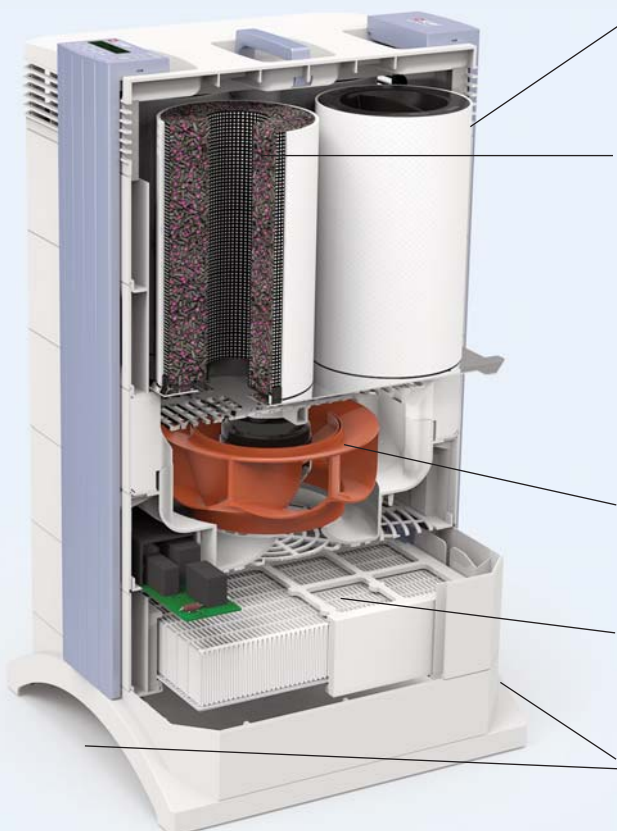


The **patented IQAir housing design** permits quick and safe replacement of the individual filter elements without any tools.



The supplied **deluxe casters** 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.

## IQAir® GC Series: Features



### 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 8 kg per unit
- large selection of gas phase cartridges, e.g.:
  - IQAir VOC (volatile organic compound control)
  - IQAir MultiGas™ (wide spectrum gas & odour control)
  - IQAir ChemiSorber (formaldehyde, hydrogen sulfide, nitric oxide and sulfur dioxide control, etc.)
  - IQAir AM (ammonia and amines control)
  - IQAir AcidPro (acid vapour control)

### High-Performance Centrifugal Fan

- max. air delivery with filters: 400 m³/h
- low energy consumption: 20-135 watts

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

- up to 99% efficiency at  $\geq 0,3 \mu\text{m}$  (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 Series 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 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.

