

IQAir® New Edition

# Cleanroom Series

## Professional Control of Airborne Microorganisms and Particulate Matter



The IQAir Cleanroom Series offers a range of portable, self-contained HEPA air filtration systems designed to meet airborne infection control and particulate contamination challenges in critical indoor environments.

IQAir systems filter the air by recirculation or by creating true positive or negative pressure environments with special IQAir ducting adaptors.

Each Cleanroom model **AND** each HyperHEPA<sup>®</sup> replacement filter is individually tested and certified to guarantee actual filtration efficiency.

The superior filtration efficiency, versatility and mobility make the IQAir Cleanroom Series the most advanced and cost-effective line of mobile air filtration systems available today.



## IQAir® Cleanroom Series: Features



IQAir Cleanroom H13 cross-section

### Air Outlet Diffuser

- returns clean, low turbulence, low velocity air
- **optional:** various outlet adapters to create positive and negative pressure environments or to direct the air flow (OutFlow™)

### Antimicrobial Certified HyperHEPA® Filter

- individually tested & certified for actual filtration efficiency
- guaranteed efficiency of  $\geq 99.97\%$  at  $\geq 0.3 \mu\text{m}$  (HEPA Class H13)
- large filter surface (H13:  $7.5 \text{ m}^2$ ) for long filter life (other models  $5.5 \text{ m}^2$ )
- individually tested & certified HyperHEPA® replacement filters

### High-Performance Centrifugal Fan

- air delivery with filters: up to  $530 \text{ m}^3/\text{h}$  (H13 model)
- sandwiched between double-walled housing and noise-absorbing filter elements

### Antimicrobial Pre-Filter

- fine dust filtration with mini-pleat 55% efficient media at  $\geq 0.3 \mu\text{m}$  (ASHRAE 90-95%, Class F8) prolongs life of HyperHEPA® filter
- large surface (H13:  $7.0 \text{ m}^2$ ) for long filter life (other models  $2.8 \text{ m}^2$ )

### Dual Air Intake

- maximum distance from air outlet prevents immediate re-intake of cleaned air (short-cutting)
- **optional:** various air intake adaptors to create positive/negative pressure environments (InFlow™ and VM InFlow™) or to provide source capture of contaminants (FlexVac™ and VM FlexVac™)

## Professional Control of Airborne Microorganisms & Particulate Matter

The IQAir Cleanroom Series consists of three high-performance air cleaning models (**Cleanroom 100, 250 and H13**). Each model is specifically designed for the removal of solid and liquid airborne particles and aerosols. Due to their certified and guaranteed high filtration efficiency, the systems are predominantly used for airborne infection control in health-care settings and for the control of particulate matter in cleanroom-type applications.

While all 3 Cleanroom models focus on the filtration of airborne liquid and solid particulate matter, the Cleanroom 250 also removes a wide spectrum of gaseous contaminants and odours with its V5-Cell™ filter. The H13 is the largest of the 3 models, offering the largest pre-filter surface area (i.e. longest pre-filter life) and the highest air delivery rate. Each system features antimicrobial pre- and HyperHEPA® filters, as well as anti-tampering armlocks that prevent the system from being opened by unauthorised personnel.



IQAir Cleanroom 250

### Individually Tested and Certified

To guarantee superior performance, the Swiss manufacturers have taken an uncompromising approach: Each IQAir HEPA system is individually tested for filtration efficiency and air delivery. The actual test results are documented on a numbered test certificate supplied with each system.

### Positive and Negative Pressure Environments

Each IQAir Cleanroom system can clean the air by recirculation, or can be connected to special IQAir ducting adaptors to create positive and negative pressure environments. Pressure differentials are particularly beneficial when the containment of harmful microorganisms and particles or the protective isolation of immuno-compromised patients is required.



IQAir system connected to OutFlow™ and InFlow™ ducting adaptors for the creation of pressure differentials between adjacent areas.

### Advanced Controls

The sophisticated control features of IQAir systems include a microchip controlled filter-life monitor that calculates the remaining filter life, taking actual use and contamination levels into account. An integrated timer allows the system to be programmed to switch on and off at the desired times on the desired weekdays. The patented IQAir housing design permits quick and safe replacement of individual filter elements without any tools. For added convenience, each IQAir system can be operated via remote control. If floor space is limited, a special bracket (VMF™) is available that allows the IQAir system to be wall-mounted.

### Medical Applications:

- Protective isolation rooms
- ICUs
- Burn units
- Minor surgery rooms
- Organ transplant wards
- Oncology wards
- Research, IVF & microbiology labs
- TB isolation & anterooms

### Commercial Applications:

- FDA-required "controlled environments"
- Medical device manufacturing & packaging
- Food processing & packaging
- Air locks
- Cleanroom gowning rooms
- Critical data storage facilities
- Computer & server rooms

