

CleanZone[®] 5000

High-Performance Air Cleaning System

Mobile Air Filtration of the Highest Calibre

The CleanZone 5000 is a powerful mobile air cleaning system which offers high-volume, high-efficiency performance at minimal noise levels.

The modular design of the CleanZone 5000 allows the system to be optimised for a wide variety of requirements in medical, public, industrial and corporate settings.

The self-contained system is easily moved for rapid deployment wherever and whenever clean air is required.

High-performance filtration of:

- fine and ultra fine particles of all types
- infectious bacteria, viruses and spores (TB, SARS, MRSA, Aspergillus, Influenza A and B, etc.)
- tobacco smoke
- oil mist
- VOCs, such as benzene, toluene and xylene, etc.
- formaldehyde and other carcinogenic substances

Features Overview

- most powerful air cleaning system of its class
- gas-phase filtration of thousands of chemicals
- improves air quality by up to 99 %
- choice of gas phase media for optimised removal of gaseous chemicals and odours
- 12 air changes per hour (ACH) in rooms up to 74 m²
- ultra quiet operation
- safety approved in accordance with hospital norms
- suitable for FDA-required controlled environments
- engineered for airborne infection control and compliance with OSHA and CDC guidelines



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.

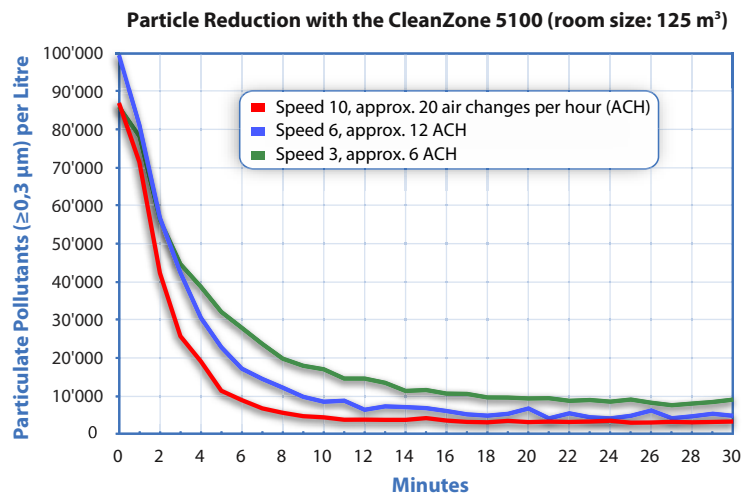
Whenever the best air quality is required, IQAir provides a powerful solution.



Performance

The effectiveness of the CleanZone 5100 was tested in a 50 m² room. The system achieved a 95% particle reduction within 10 minutes operating at the highest fan speed. Even at a low fan speed the CleanZone removed 90% of all particulate contaminants within 20 minutes of use.

These results were achieved in a non-sealed room where the central ventilation system brought in a constant stream of particulate pollutants. In protected environments the CleanZone can achieve actual particle reductions of up to 99% which represents a 100-fold air quality improvement.



Applications

Medical & Healthcare

- medical practices/clinics/hospitals
- microbiological- & research labs
- intensive care units (ICU & NICU)
- IVF-Labs
- organ transplant & oncology wards (protective isolation)
- TB wards (containment isolation)
- post-operative recovery rooms
- dialysis centres
- emergency & field medical care units

Public & Institutional

- nursing homes
- archives/libraries
- airports
- cafeterias
- kindergartens & preschools
- places of worship
- museums
- schools
- military
- waiting rooms

Trade & Industry

- bars/restaurants/hotels/casinos
- offices/open-plan offices
- print shops
- smoking rooms/cigar lounges
- art restoration & conservation
- data centres/network server rooms
- laboratories
- mechanical work shops
- nail & beauty salons
- fitness studios & wellness centres



Features Overview

Air Outlet Diffuser

- maximum distance from air intake ensures high air cleaning effectiveness
- optional connection to air ducts for creation of positive- and negative pressure environments

Main Filter Module

- can be individually configured for specific pollutants
- the following base models are available for particulate and gaseous chemical control



5100



5200



5300

Handle Bar

Digital Control Panel

Fan Module

High-Performance Fan

- state of the art EC-technology
- high airflow rate
- high energy efficiency
- ultra quiet operation



high-performance electronically commutated fan motor

PreMax™ 500 Filter

- effective filtration of coarse and fine particles
- high-capacity pre-filter media (class F9)
- 17 m² surface area maximises filter life

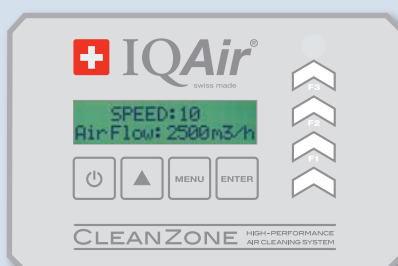
Air Intake

- maximum distance from air outlet for the best air circulation
- optional connection to air ducts for creation of positive- and negative pressure environments

Heavy Duty Casters

- for easy relocation and quick emergency deployment

Digital Control Panel






- 10 fan speed settings
- programmable daily/weekly timer
- remote control
- intelligent filter life monitor
- key-lock function
- programmable pollution index

AUTO TIMER: ON
07:00 → 20:00

REMAINING LIFE
Filter 1: 14000 h

COARSE DUST
LEVEL: HIGH

Model Overview		CleanZone 5100	CleanZone 5200	CleanZone 5300
				
Technical Data	Application	maximum reduction of particulate matter and microorganisms	maximum reduction of gaseous substances, odours and particulate matter (incl. microorganisms)	maximum reduction of gaseous substances, odours and microorganisms *
	Airflow Rate (max.)	2400 m ³ /h	2200 m ³ /h	1800 m ³ /h
	Removal Efficiency for Particulates (≥ 0.3 μm)	≥ 99.97%	≥ 99%	≥ 99.97%
	Weight/Gas Phase Filtration Media Content	75 kg/none	146 kg/54 kg **	120 kg/31 kg **
	Sound Power Level per Fan Speed	Speed 1: 38, 2: 46, 3: 52, 4: 57, 5: 61, 6: 64, 7: 66, 8: 68, 9: 70, 10: 72 dB(A) (tolerance: ± 3 dB(A))		
	Dimensions (incl. Casters)	643 x 643 x 1943 mm		
	Additional Features	10 fan-speed settings; intelligent filter life monitor for each filter; electronically commutated motor (EC).		
	Power Consumption at 230V, 50Hz	20-480W		
	Electrical Configuration	220-240V, 50/60Hz		
Filters	Pre-Filter	PreMax™ 500 high-capacity fine dust filter (class F9 / MERV 16) surface area 17 m ²		
	Particle Filter	HyperHEPA®700-filter drum class H12/13; surface area 23 m ²	Post-filter fibre sleeves class H11; surface area 4.3 m ²	HyperHEPA®300-filter drum class H12/13; surface area 10 m ²
	Broad-Spectrum Gas & Odour Filter (standard)	—	MultiGas™ GCXL cartridges (12 pieces; weight: 54 kg)	MultiGas™ GCX cartridges (12 pieces; weight: 31 kg)
	Specialised Gas & Odour Filters (optional)	—	ChemiSorber GCXL cartridges (12 pieces; weight: 72 kg)	ChemiSorber GCX cartridges (12 pieces; weight: 42 kg)
	Formaldehyde, hydrogen sulfide, sulfur dioxide etc.	—	VOC GCXL cartridges (12 pieces; weight: 42 kg)	VOC GCX cartridges (12 pieces; weight: 24 kg)
	Volatile organic compounds (e.g. benzene, toluene, xylene), chlorine, nitrogen dioxide etc.	—	AM GCXL cartridges (12 pieces; weight: 48 kg)	AM GCX cartridges (12 pieces; weight: 28 kg)
Ammonia and other base substances	—	Hg GCXL cartridges (12 pieces; weight: 50 kg)	AcidPro GCX cartridges (12 pieces; weight: 28 kg)	
Mercury vapours	—	AcidPro GCXL cartridges (12 pieces; weight: 50 kg)		
Acid gases	—			
Other	Max. Air Changes per Hour in:			
	50 m ² room (2.7 m ceiling height)	17.8	16.3	13.3
	100 m ²	8.9	8.2	6.7
	200 m ²	4.4	4.1	3.3
Warranty Period	2 years (excluding filters)			
Supplied Accessories	Remote control (incl. batteries), assembly tool set, handle bar, power cord			
Optional Accessories	casters (2 with locking wheels), Stabilising feet, flexible suction duct, closed end-panels for duct connection, hard wire kit			

* for applications where 99.97% filtration efficiency (at 0.3 μm) is prescribed in addition to gas and odour filtration

** based on MultiGas™ media. Depending on the gas filter configuration, the media weight may be higher or lower.

