Technical Specifications: *IQAir® Cleanroom 250 MG* NE

General Specifications

Power requirements	100-120 V, 50/60 Hz
Energy consumption *	1: 27, 2: 53, 3: 92, 4: 121, 5: 154, 6: 215 Watt; Standby: <1 Watt
Dimensions (without / with packaging)	H 71 x W 38 x D 41 cm / carton: H 84 x W 43 x D 45 cm
Weight (without / with packaging)	16 kg / 20 kg
Air delivery (incl. filters) *	1: 70, 2: 130, 3: 220, 4: 290, 5: 340, 6: 510 m³/h
Sound pressure/power level **	L_{PA} 1: 25, 2: 36, 3: 44, 4: 50, 5: 54, 6: 59 dB(A); L_{WA} 1: 35, 2: 46, 3: 54, 4: 60, 5: 64, 6: 69 dB(A)
Fan motor	centrifugal, backward curved, with thermal protector, non-stop use approved
Control panel	4-key touch-pad with 16 character 2-line LCD display
Air intake	dual arches at base of unit
Air outlet	320° EvenFlow™ diffuser
Colour of main housing / locking arms	light grey / green
Housing material	non-offgasing, impact-resistant, UV-stabilized ABS

Performance

MPPS efficiency (according to EN1822)	≥ 99.95% at airflow rate ≤ 190 m³/h; ≥ 99.5% at airflow rate ≤ 475 m³/h
Total system efficiency (certified)	≥ 99.97% for particles ≥ 0.3 micron (µm)
Air delivery (certified)	yes
Leak tested	yes

Filter Configuration

Pre-filter	**CR PreMax™ Filter F8 (S) A** Purpose: control of coarse & fine particulate matter; protection of subsequent filters Media: antimicrobial non-woven glass microfiber, mini-pleated for high-capacity Efficiency: ≥ 55% at ≥ 0.3 µm (class F8) Surface area: 2.8 m²

Gas & odour filter	**V5-Cell™ Filter**
	Purpose: control of a wide range or specific chemical contaminants and odours
	Media options:
	    V5-Cell™ MultiGas: 2.5 kg activated carbon & impreg. activated alumina (AC/4 + IA/4)
	    V5-Cell™ VOC: 2.3 kg granular activated carbon (AC/4)
	    V5-Cell™ CS: 3.9 kg granular impregnated alumina (IA/4)
	    V5-Cell™ AM: 2.7 kg granular impregnated activated carbon (AC/4-AM)
	    V5-Cell™ Hg: 2.7 kg granular impregnated activated carbon (AC/4-S)

HEPA-filter	**CR HyperHEPA® Filter H13 (L) A** Purpose: control of fine & ultra-fine particulate matter incl. bacteria, viruses & mould spores Media: antimicrobial hospital-grade HyperHEPA® filter Efficiency: ≥ 99.97% at ≥ 0.3 µm (class H13) Surface area: 5.5 m²

Features

Display languages	4 user-selectable languages: English, French, German, Italian (or Spanish)
Fan speed settings	6
Anti-tampering arm lock	yes
Anti-tampering power cord	yes
HEPA replacement filter tested & certified	yes (test certificate supplied with replacement filter)
Intelligent filter life monitor	yes (monitors actual usage of each individual filter)
Filter life status LEDs	3
Advanced timer	yes (allows programming of operating hours and weekdays)
Advanced fan speed selection	yes (allows programming of different fan speeds for 2 different time periods)
Adjustable filter load indices	3 (large dust, chemicals and fine dust)
Supplied accessories	remote control (incl. battery), power cord with plug, casters, arm- & cable-lock, certificate of performance
Optional accessories	**VMF** wall-mount bracket, **PF40** coarse dust pre-filter, **InFlow, VM InFlow** & **OutFlow** duct connections, **FlexVac** & **VM FlexVac** mobile & wall-mounted source capture kits, **SMC** side-mounted control panel
Electrical safety certification	IEC/IECEE (CB-Scheme), UL, CSA, BSMI
Medical device registration	U.S. FDA-registered as a "Class II Medical Device"; Registration No.: 2087558

* per fan speed measured at 120V, 60Hz; tolerance ± 10% (± 10 m³/h); ** tolerance: ± 3 dB(A); All technical specifications are subject to change without prior notice.