IQAir® Atem® X — Technical Specifications and Features Overview

PERFORMANCE OVERVIEW

	Fan speed	1	2	3	4	5	6	7	8
Air delivery rate [1]	*m^3/h*	100	150	200	300	400	500	650	750
Filter class	*based on EN 1822*	H13	H13	E12	E12	E12	E12	E12	E11
Sound pressure [2]	*dB(A) @ 1 m*	15	18	24	33	37	43	48	54
Power consumption	*Watt*	6	7	9	12	21	34	57	86

CLEAN AIR DELIVERY RATE

CADR - GB/T 18801-2015	*particulate matter*	> 800 m^3/h

FILTRATION EFFICIENCY

Contaminant	Type	Elimination Rate	Time	Test Report	Test Standard
Influenza A virus (*H1N1*)	*virus*	> 99.90 %	10 minutes[3]	ASCR092516	EPA/600/R-10/127
Influenza A virus (*H1N1*)	*virus*	> 99.99 %	60 minutes[4]	2021FM18924R01D	T/SAEPI 005-2020
Human coronavirus (*HCoV-229E*)	*virus*	> 99.99 %	60 minutes[4]		
Human enterovirus 71 (*EV71*)	*virus*	> 99.99 %	60 minutes[4]		
Escherichia coli (*E. coli*)	*bacteria (gram-negative)*	> 99.94 %	60 minutes[4]	2021FM18924R02D	GB 215513.3-2010
Staphylococcus albus (*S. epidermidis*)	*bacteria (gram-positive)*	> 99.92 %	60 minutes[4]		
Aspergillus niger (*A. niger*)	*fungi (mold spore)*	> 99.96 %	60 minutes[4]	2021FM18924R02D	GB 215513.3-2010
Pollen Allergen (*Bet v1*)	*Bet v1*	> 97.59 % [5]	60 minutes[4]	2022FM07160R01D	T/GIEHA 009-2018
Ultrafine Particles (0.09 - 0.10 µm)	*particulate matter*	> 92.05 %	10 minutes[4]	WCk-22-50287	GBT 18801-2022
		> 99.47 %	70 minutes[4]		

FILTER SPECIFICATIONS

IQAir® Impaktor	Description	Triple Impaktor-Technology
Art. No. 275 12 00 03	Purpose	Pre-filtration of coarse dust particles and fibres to extend yield of HEPA filter
	Media / Surface	195 Impaktor collection blades, ABS, washable
	Filtration principle	Inertial impaction *
Atem X HyperHEPA® HF Filter	Description	Triple HyperHEPA® HF Filter
Art. No. 275 20 10 05	Purpose	Control of particulate matter incl. dust, soot, allergens, pollen, mold spores, bacteria and viruses
	Media / Surface	Mini-pleated, non-woven, multi-layer synthetic HyperHEPA HF microfiber media; approx. 2.8 m^2
	Filtration principle	Diffusion, interception, inertial impaction and electrostatic attraction *

* The Atem X deploys mechanical filtration processes only and does not use potentially harmful technologies, such as UV radiation, ionisation or ozonation.

KEY FEATURES

High-performance fan motor	Centrifugal forward curved EC fan motor offers high-capacity, yet energy efficient performance with 8 fan speeds
BionicCore™ architecture	Unique orbital design delivers more clean air with less noise and less energy consumption
Flexible Air Rotation (FAR)	Allows 320° rotation of air outlet for optimal clean air circulation
Ultra low noise design	Aerodynamically optimised airflow guide fins and "fan-in-centre" design effectively minimise airflow noise
Advanced control options	Direct control via touch-sensitive control panel; Remote control via smartphone app (AirVisual)
WiFi connectivity	Enables remote device management and selection of outdoor air quality station for indoor/outdoor air quality comparison
Advanced air quality sensors	For accurate real-time measurements of particulate matter ($PM_{2.5}$), CO_2, temperature and humidity
Integrated air quality indicator	8 colour LEDs provide visual feedback of current room air quality (AQI)
Smart modes	Selection of 3 smart modes for automatic fan speed adjustment according to surrounding air quality
Automatic timer	Advanced hourly, daily and weekly time programming options for individual scheduled operation
Intelligent filter life monitor	Calculates remaining filter life based on operating hours, fan speed and particle concentration
Light dimming	Allows individual brightness adjustment of the control panel LEDs
Control lock function	Locks control panel to prevent unauthorised interference with selected settings
Compatibility	*AirVisual app*[6] (for access to all control features and graphic display of historic air quality data)
	IQAir Web Dashboard (for access to Atem X settings and graphic display of hourly, daily and monthly air quality history)
	AirVisual Outdoor monitor (for outdoor air quality reference values)

GENERAL INFORMATION

Power ratings	220-240 V; 50/60 Hz; max. 110 W	or	100-120 V; 50/60 Hz; max. 110 W
Safety, EMC & Radio eqpt. certification	CE, IEC/IECEE (CB-Scheme), CCC, KC (KMEPS), WPC		UL, FCC, CSA, IC (ISED), BSMI, NCC, PSE Energy Star, California Air Resources Board (CARB)
Origin	Germany		
Material/colour	Housing: non off-gassing, impact-resistant ABS / white		Stand: die-cast aluminium (powder coated) / dark grey metallic
Dimensions (HxDxW) / weight	68.8 x 25.4 x 64.0 cm / 13 kg (incl. stand)		72.5 x 25.4 x 64.0 cm / 13.5 kg (incl. Mobile Base)

SCOPE OF SUPPLY & ACCESSORIES

Scope of delivery	Atem® X air purification system with fitted metal stand and power cord, Mobile Base (use optional), Certificate of Performance
Accessories (optional)	Wall Mount Kit (Art. No. 275 20 00 02)

[1] including HyperHEPA HF filters; tolerance ±10 % (±10 m^3/h)

[2] Standards: EN ISO 60704-1:2010; EN ISO 11201:2010. Report: 5072-21-AA-21-PP002/3

[3] test performed in a 28.5 m^3 test chamber at fan speed 8

[4] test performed in a 30 m^3 test chamber at fan speed 8

[5] the measurable reduction was subject to measuring limitations resulting from low starting concentration

[6] available in 16 user-selectable languages (en, fr, de, es, ar, fa, hi, jp, ko, mn, pl, ru, th, vi, zh-simp., zh-trad.)