

# IQAir® Atem® X — Technical Specifications and Features Overview

## PERFORMANCE OVERVIEW

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

## CLEAN AIR DELIVERY RATE

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

## FILTRATION EFFICIENCY

Contaminant	Type	Elimination Rate	Time	Test Report	Test Standard
Influenza A virus (H1N1)	<i>virus</i>	> 99.90 %	10 minutes <sup>3</sup>	ASC092516	EPA/600/R-10/127
Influenza A virus (H1N1)	<i>virus</i>	> 99.99 %	60 minutes <sup>4</sup>	2021FM18924R01D	T/SAEPI 005-2020
Human coronavirus (HCoV-229E)	<i>virus</i>	> 99.99 %	60 minutes <sup>4</sup>		
Human enterovirus 71 (EV71)	<i>virus</i>	> 99.99 %	60 minutes <sup>4</sup>		
Escherichia coli (E. coli)	<i>bacteria (gram-negative)</i>	> 99.94 %	60 minutes <sup>4</sup>	2021FM18924R02D	GB 215513.3-2010
Staphylococcus albus (S. epidermidis)	<i>bacteria (gram-positive)</i>	> 99.92 %	60 minutes <sup>4</sup>		
Aspergillus niger (A. niger)	<i>fungi (mold spore)</i>	> 99.96 %	60 minutes <sup>4</sup>	2021FM18924R02D	GB 215513.3-2010
Pollen Allergen (Bet v1)	<i>Bet v1</i>	> 97.59 % <sup>5</sup>	60 minutes <sup>4</sup>	2022FM07160R01D	T/GIEHA 009-2018
Ultrafine Particles (0.09 - 0.10 µm)	<i>particulate matter</i>	> 92.05 % > 99.47 %	10 minutes <sup>4</sup> 70 minutes <sup>4</sup>	WCK-22-50287	GBT18801-2022

## FILTER SPECIFICATIONS

<b>Atem X Impaktor</b> Art. No. 275 12 00 03	Technology	triple Impaktor with a total of 195 collection blades
	Purpose	pre-filtration of coarse dust particles and fibres to extend yield of HEPA filter
	Surface	ABS, washable
	Filtration principle	inertial impaction *
<b>Atem X HyperHEPA® HF Filter</b> Art. No. 275 20 10 05	Technology	triple HyperHEPA® HF filter (non-woven, mini-pleated, multi-layer synthetic microfiber media)
	Purpose	control of particulate matter incl. dust, soot, allergens, pollen, mold spores, bacteria and viruses
	Surface	approx. 2.8 m <sup>2</sup>
	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

<b>High-performance fan motor</b>	Centrifugal forward curved EC fan motor offers high-capacity, yet energy efficient performance with 8 fan speeds
<b>BioniCore™ architecture</b>	Unique orbital design delivers more clean air with less noise and less energy consumption
<b>Flexible Air Rotation (FAR)</b>	Allows 320° rotation of air outlet for optimal clean air circulation
<b>Ultra low noise design</b>	Aerodynamically optimised airflow guide fins and "fan-in-centre" design effectively minimise airflow noise
<b>Advanced control options</b>	Direct control via touch-sensitive control panel; Remote control via smartphone app (AirVisual)
<b>WiFi connectivity</b>	Enables remote device management and selection of outdoor air quality station for indoor/outdoor air quality comparison
<b>Advanced air quality sensors</b>	For accurate real-time measurements of particulate matter (PM <sub>2.5</sub> ), CO <sub>2</sub> , temperature and humidity
<b>Integrated air quality indicator</b>	8 colour LEDs provide visual feedback of current room air quality (AQI)
<b>Smart modes</b>	Selection of 3 smart modes for automatic fan speed adjustment according to surrounding air quality
<b>Automatic timer</b>	Advanced hourly, daily and weekly time programming options for individual scheduled operation
<b>Intelligent filter life monitor</b>	Calculates remaining filter life based on operating hours, fan speed and particle concentration
<b>Light dimming</b>	Allows individual brightness adjustment of the control panel LEDs
<b>Control lock function</b>	Locks control panel to prevent unauthorised interference with selected settings
<b>Compatibility</b>	<i>AirVisual app</i> <sup>6</sup> (for access to all control features and graphic display of historic air quality data) <i>IQAir Web Dashboard</i> (for access to Atem X settings and graphic display of hourly, daily and monthly air quality history) <i>AirVisual Outdoor</i> monitor (for outdoor air quality reference values)

## GENERAL INFORMATION

<b>Origin</b>	Germany
<b>Power ratings</b>	220-240 V; 50/60 Hz; max. 110 W
<b>Safety &amp; EMC certification</b>	CE, IEC/IECEE (CB-Scheme), KC
<b>Energy Star certified</b>	Yes
<b>Material/colour</b>	housing: non off-gassing, impact-resistant ABS / white stand: die-cast aluminium (powder coated) / dark grey metallic
<b>Dimensions (HxDxW) / weight</b>	with stand: 68.8 x 25.4 x 64.0 cm / 13 kg with mobile base: 72.5 x 25.4 x 64.0 cm / 13.5 kg

## SCOPE OF SUPPLY & ACCESSORIES

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

<sup>1</sup> including HyperHEPA HF filters; tolerance ±10 % (±10 m<sup>3</sup>/h)

<sup>2</sup> Standards: EN ISO 60704-1:2010; EN ISO 11201:2010. Report: 5072-21-AA-21-PP002/3

<sup>3</sup> test performed in a 28.5 m<sup>3</sup> test chamber at fan speed 8

<sup>4</sup> test performed in a 30 m<sup>3</sup> test chamber at fan speed 8

<sup>5</sup> the measurable reduction was subject to measuring limitations resulting from low starting concentration

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