

Clean air  
is a human  
right



HEPASilent Air Purification Systems

 **Blueair**

# 10 tips for choosing the best air purifier

## 1 Filter efficiency

When selecting an air purifier, consider performance first. Compare air purifiers using the Clean Air Delivery Rate (CADR). This measures how well a system removes pollutants from the air. The higher the CADR test numbers, the better the unit cleans indoor air.

## 2 Capacity

Measure the size of the room where you want to purify air. Choose a unit that can handle the total volume of air in the room. Remember that high ceilings affect the total cubic footage. Use the Association of Home Appliance Manufacturers (AHAM) recommended room size to choose the correct unit.

## 3 Health concerns

Air purifiers can improve air quality for those with allergies, asthma and other respiratory conditions. Blueair's HEPA-Silent™ filters capture 99.97% of the smallest particles from dust, pollen and pet dander to tobacco smoke and viruses.

## 4 Legitimacy of manufacturer claims

When comparison shopping, AHAM is the most reliable source of unbiased information. Blueair purifiers are AHAM certified in performance tests that are recognized as accurate and impartial by the EPA, the Federal Trade Commission and the American Lung Association.

## 5 Indoor environmental factors

Environmental conditions impact a purifier's performance and maintenance requirements. Blueair's HEPASilent™ filters counter mold and bacterial growth without filter sterilization or the addition of chemicals.

## 6 Operating cost

Check the manufacturer's recommended filter replacement interval and costs. Generally, the most effective units are also the most costly to purchase and maintain on a daily basis. Look for the unit's energy use, expressed as watts.

## 7 Construction quality

Check the warranty to make sure it covers internal components, such as fans and blowers. The unit should be certified for product safety by organizations such as the Underwriter's Laboratory or ETL.

## 8 Ease of Use

Replacing filters and periodic internal cleaning can require weekly additives, filter washing, heavy lifting and special tools. Other air purifiers have maintenance regimens that simply require a filter change. Select an air purifier that meets your requirements.

## 9 Warranty

Make sure that the air purifier carries a solid warranty. Most established manufacturers offer warranties ranging from three to five years.

## 10 Bells and whistles

- Confirm claims of a "whisper quiet" unit with specific noise values, expressed in decibels (dBA).
- Don't assume that a large unit is more effective or that a small unit is less effective. Select a unit based on efficiency and air volume capacity.
- Most units require specific clearance from walls and windows to operate effectively, so don't forget to check the operating instructions for advice on air purifier placement.

# Best in class

Features and benefits



**Near Silent Operation** – Since air passes easily through Blueair filter media, the fan doesn't have to work as hard or as loud. Even the housing is designed with quiet operation in mind, replacing sound-sonant plastic with noise-muffling steel.

**Award Winning Swedish Design** – Its sleek contemporary look has earned Blueair one of the most prestigious design awards in Scandinavia, the Excellent Swedish Design Award.

**Protective Steel Housing** – The Blueair system housing is made of galvanized steel, rather than less durable plastic.

**Zero Ozone Emission** – Blueair systems use a very low electrical current to minimize ozone production and a sealed steel housing chamber to keep ozone contained. Testing shows the ozone concentration in our system's output air is actually lower than in the incoming air.

**Low Energy Consumption** – Blueair is among the first to earn the ENERGY STAR designation for air purifiers, a program developed in the United States and sponsored by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy. All models exceed ENERGY STAR's minimum energy efficiency guidelines.\*

**Easy to Use & Maintain** – Plug it in and select the speed setting. Blueair works so quietly, at first you may find yourself wondering if it's turned on. Blueair filters require no weekly additives or filter washing and the grills and powder-coated steel exterior are easy to wipe clean.

**Industry High CADR** – CADR was developed by the Association of Home Appliance Manufacturers (AHAM) in the United States,

to help consumers worldwide determine how well an air cleaner reduces airborne pollutants such as tobacco smoke, dust and pollen – by indicating the volume of filtered air delivered. The higher the Clean Air Delivery Rate (CADR), the faster the unit filters the air.

CADR takes into account:

- the size of the particle removed
- what percentage of particles are removed
- the volume of air actually moving through the system

When the particle size and filter efficiency of any two air cleaners are the same (as they often are), CADR is the key to choosing the more effective system. To ensure accuracy and fairness, CADR testing is performed only through AHAM, an independent industry organization. CADR test results are recognized as accurate and impartial by the U.S. Environmental Protection Agency.

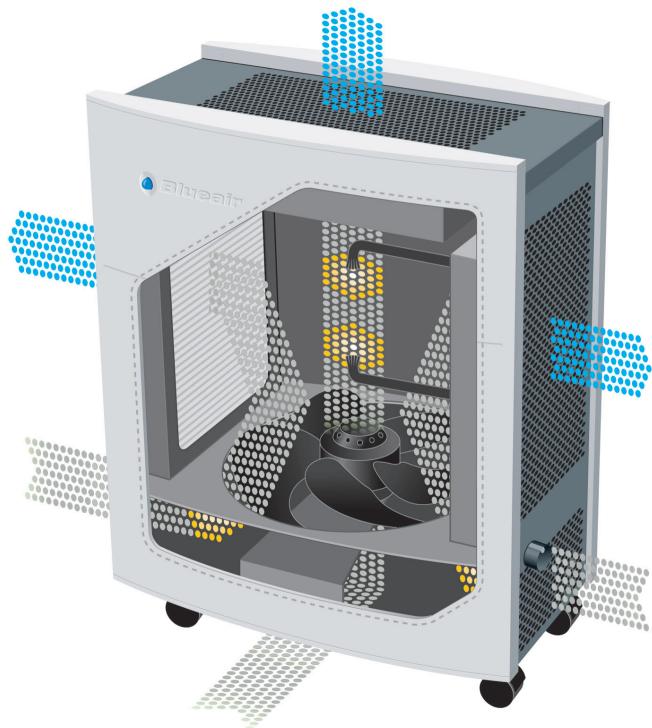
Air volume is often described as air exchange (the number of times the total volume of air in the room is processed by the unit within a given period of time). Some manufacturers substitute air exchange rates for CADR results, but they are not equivalent. CADR numbers give a much more precise report of an air purifier's performance.

**Blueair** has achieved CADR ratings that are among the highest in the industry.\*

\* See [www.cadr.org](http://www.cadr.org) and [www.energystar.gov](http://www.energystar.gov)

# HEPASilent Technology

Combining the best in electrostatic and mechanical filtration technology



Blueair air purifiers uses a combined technology of advanced filter media and an encapsulated ion particle charging chamber.

A revolutionary combination of advanced filter media and an encapsulated ion particle charging chamber ensures the Blueair air purification system achieves better results than either mechanical or electrostatic technology alone.

When running the units on the lowest setting, Blueair's HEPA-Silent™ filtration technology captures 99.97% of all particles down to 0.1 micron in size.

## HOW IT WORKS

- 1** Air is drawn into the Blueair system via our ultra-quiet fan.
- 2** Airborne particles pass through an ion chamber and are electrically charged. This causes them to adhere effortlessly to our exclusive polypropylene filters.
- 3** Charged particles are removed in the gradient structured, progressive filter with the first layers capturing larger particles such as pollen and dust. As the polluted air is drawn further into the filter, even the smallest particles such as cigarette smoke\* and exhaust are removed. Together, the encapsulated ion chamber and filtration process combine to create Blueair's patented HEPA-Silent™ technology — delivering maximum airflow with minimum noise.

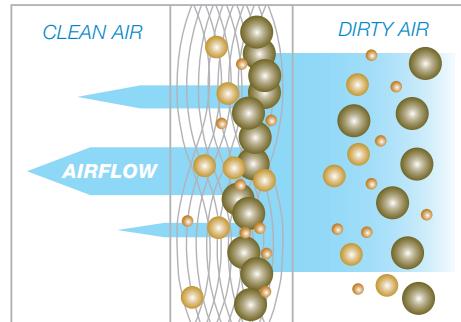
\* No air purifier or air cleaner can eliminate the hazardous contaminants, or stop the harmful effects of second hand smoke. The best defense is a smoke-free environment.



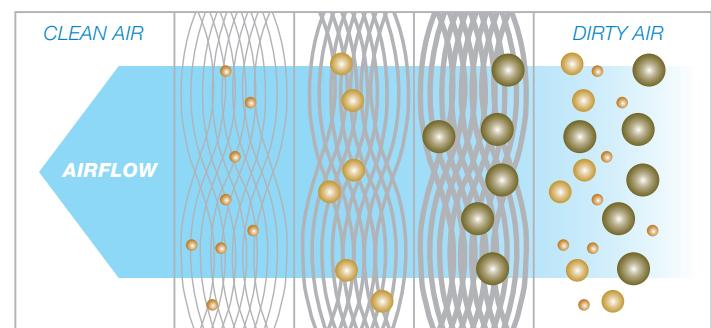
## Gradient structured progressive filter

Blueair filters resemble having many filters in one. This is a result of the progressive structure of a Blueair filter with millions of ultra thin fibers in different sizes and layers. Our exclusive design allows Blueair filters to 'lock in' particles in different stages. Once captured, the particles are not re-released back into your environment, even when the filter is heavily loaded. The first layers capture larger particles like pollen and dust. Later filter layers capture smaller particles like bacteria and exhaust particles.

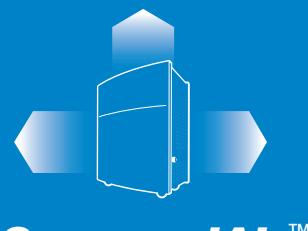
Our unique filter design resists clogging and allows filtration at peak performance levels with high efficiency and longer lasting high airflow. When the filter needs to be replaced (around every six months), just open the lid, take out the old filters and put the new ones in. No screws, hooks or tools are needed. And it is all done in under sixty seconds. An extra bonus is that Blueair filters require no weekly additives or filter washing.



Traditional HEPA filter: Clogging and restricted airflow



Blueair's gradient structured and progressive HEPSilent filter allows high efficiency and maximum airflow.



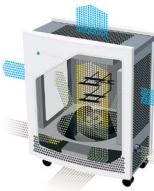
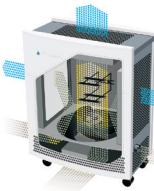
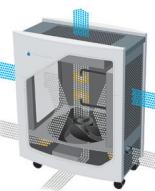
## SurroundAir™

Multi-directional airflow for maximum coverage, minimum drafts.

Instead of discharging a windy stream of filtered air, the Blueair Series diffuse air gently through an area six times greater than the average air cleaner. Operating on its lowest setting, the Blueair Series produce virtually no noticeable draft. Blueair's Surround-Air™ system achieves peak performance without annoying drafts by drawing in dirty air from the sides and bottom and releasing clean, filtered air from the sides and top.

Choose between our standard Blueair Particle Filter for maximum removal of dust, pollen, bacteria, pet dander, mold spores and other airborne particles or our Blueair SmokeStop™ Filter, specially designed to also remove smoke, odors and other airborne gases.

# Performance & Specifications\*

Model	Blueair 650E	Blueair 603	Blueair 503
Photo			
Cutaway			
Room size	698 sq. ft. (65 m <sup>2</sup> )	698 sq.ft. (65 m <sup>2</sup> )	580 sq.ft. (54 m <sup>2</sup> )
CADR (Clean Air Delivery Rate)			
Smoke	>450 (>765 m <sup>3</sup> /h)	>450 (>765 m <sup>3</sup> /h)	375 (638 m <sup>3</sup> /h)
Dust	>400 (>680 m <sup>3</sup> /h)	>400 (>680 m <sup>3</sup> /h)	375 (638 m <sup>3</sup> /h)
Pollen	>450 (>765 m <sup>3</sup> /h)	>450 (765 m <sup>3</sup> /h)	375 (638 m <sup>3</sup> /h)
Air changes per hour (ACH)**	5 (698 sq.ft. room) 5 (65 m <sup>2</sup> room)	5 (640 sq.ft. room) 5 (60 m <sup>2</sup> room)	5 (580 sq.ft. room) 5 (54 m <sup>2</sup> room)
Airflow	90–490 cfm 150–830 m <sup>3</sup> /h	90–455 cfm 150–770 m <sup>3</sup> /h	90–415 cfm 150–705 m <sup>3</sup> /h
Size (HxWxD)	26 x 20 x 13 in. 660 x 500 x 340 mm	26 x 20 x 13 in. 660 x 500 x 340 mm	26 x 20 x 13 in. 660 x 500 x 340 mm
Product weight	35 lbs (16 kg)	35 lbs (16 kg)	35 lbs (16 kg)
Energy consumption (watts)	35 to 120	35 to 120	35 to 120
Noise level dB(A)	32–66	32–66	32–66
Electronic sensors with remote	Yes	No	No
Filter replacement indicator	Yes	Yes	Yes
On/off timer	Yes	No	No
Speed control options	Auto-1-2-3	1-2-3-4	1-2-3-4
Casters	Yes	Yes	Yes
Air outlet	SurroundAir™ Top & Sides	SurroundAir™ Top & Sides	SurroundAir™ Top & Sides
Air inlet	Bottom & Sides	Bottom & Sides	Bottom & Sides

\* Specifications based on US version models with 120 VAC, 60 Hz.

\*\* Air changes per hour are calculated on the recommended room size, assuming 8-foot (2.4 m) ceilings.

For smaller rooms, the air changes per hour will increase.

Blueair 450E



Blueair 403



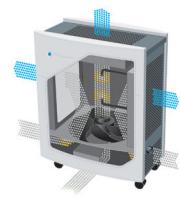
Blueair ECO10



Blueair 270E



Blueair 203

365 sq.ft. (34 m<sup>2</sup>)370 sq.ft. (34 m<sup>2</sup>)300 sq.ft. (28 m<sup>2</sup>)240 sq.ft. (22 m<sup>2</sup>)240 sq.ft. (22 m<sup>2</sup>)240 (408 m<sup>3</sup>/h)240 (408 m<sup>3</sup>/h)190 (323 m<sup>3</sup>/h)155 (263 m<sup>3</sup>/h)155 (263 m<sup>3</sup>/h)240 (408 m<sup>3</sup>/h)240 (408 m<sup>3</sup>/h)195 (331 m<sup>3</sup>/h)155 (263 m<sup>3</sup>/h)155 (263 m<sup>3</sup>/h)5 (365 sq.ft. room)  
5 (34 m<sup>2</sup> room)5 (370 sq.ft. room)  
5 (34 m<sup>2</sup> room)5 (300 sq.ft. room)  
5 (28 m<sup>2</sup> room)5 (240 sq.ft. room)  
5 (22 m<sup>2</sup> room)5 (240 sq.ft. room)  
5 (22 m<sup>2</sup> room)75–280 cfm  
130–475 m<sup>3</sup>/h75–280 cfm  
130–475 m<sup>3</sup>/h100–230 cfm  
170–390 m<sup>3</sup>/h60–170 cfm  
100–290 m<sup>3</sup>/h60–170 cfm  
100–290 m<sup>3</sup>/h23 x 20 x 11 in.  
590 x 500 x 275 mm23 x 20 x 11 in.  
590 x 500 x 275 mm26 x 20 x 13 in.  
660 x 500 x 340 mm21 x 17 x 10 in.  
533 x 432 x 241 mm21 x 17 x 10 in.  
533 x 432 x 241 mm

33 lbs (15 kg)

33 lbs (15 kg)

35 lbs (16 kg)

25 lbs (11 kg)

25 lbs (11 kg)

30 to 80

30 to 80

7 to 10

20 to 80

20 to 80

32–52

32–52

40–49

32–56

32–56

Yes

No

No

Yes

No

Yes

Yes

Yes

Yes

Yes

Yes

No

No

Yes

No

Auto-1-2-3

1-2-3-4

1-2

Auto-1-2-3

1-2-3

No – Handles

No – Handles

Yes

No – Handles

No – Handles

Side

Side

SurroundAir™  
Top & Sides

Top

Top

Side

Side

Bottom &amp; Sides

Back

Back



## Our philosophy

Blueair was founded on the belief that everyone should be able to enjoy clean air indoors, at home or in the workplace. We have become a global authority on how to remove indoor air impurities down to the tiniest particle thanks to our deep commitment to research and innovation. Our healthier air solutions work to clean more air faster, whisper quietly and using little energy, removing allergens, asthma triggers, viruses, bacteria and other airborne pollutants.

Innovated with love in Sweden to deliver cleaner, healthier indoor air, we have developed the world's best air cleaners because we believe passionately that clean air is a basic human right.

[www.blueair.com](http://www.blueair.com)

## Certifications



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