

THE 7 BEST AIR PURIFIER FOR VOCs IN 2020

UPDATED ON SEPTEMBER 16, 2020 BY [REVIEWSOFAIRPURIFIERS](#) [LEAVE A COMMENT](#)




Although proper ventilation and source control can significantly reduce the exposure to the volatile organic compounds (VOCs), an air purifier might help when those options are limited. Also, air purifiers can be quite beneficial for those who have multiple chemical sensitivity (MCS). An air purifier with gas and odor phase filters can lower the concentration of VOCs in a closed space.

In this post, we are going to discuss the 7 best air purifiers for VOCs removal with a helpful buying guide.

Jump to:

- [VOC Air Purifiers Checklist](#)
- [List of the 7 Best Air Purifier for VOCs](#)

If you're in a hurry, check out our best picks:

Our Top Pick	
Air Purifier	EnviroKlenz Mobile Air System
Image	
Amount of Absorbents	1.5 lbs
Room Coverage	370 sq. ft. with 5 air changes/hour
Pros & Cons	<ul style="list-style-type: none"> ✓ Don't off-gas ✓ Deep bed HEPA filter ✗ Industrial type design
In-depth Review	EnviroKlenz UV-C Review
Customer Ratings	-
Prime Status	-
Current Price	\$699.00
Bring it Home	Get it from EnviroKlenz

Best in Coverage	
Air Purifier	Oransi EJ120

Image	
Amount of Absorbents	1 - 3.5 lbs
Room Coverage	495 sq. ft. with 5 air changes/hour
Pros & Cons	<ul style="list-style-type: none"> ✓ Two types of VOC filter ✓ High air delivery ✗ No VOC sensor
In-depth Review	-
Customer Ratings	
Prime Status	-
Current Price	Price not available
Bring it Home	<input type="button" value="Add to Cart"/>

Best in Premium	
Air Purifier	IQAir GC MultiGas
Image	
Amount of Absorbents	12 lbs
Room Coverage	450 sq. ft. with 5 air changes/hour
Pros & Cons	<ul style="list-style-type: none"> ✓ Huge absorbents media ✓ Deep bed HEPA filter ✗ Expensive
In-depth Review	-

Customer Ratings	
Prime Status	-
Current Price	\$1,299.00
Bring it Home	<input type="text"/>

What are VOCs?

Volatile Organic Compounds or VOCs are chemicals that are released into the air in the form of gases and vapors from paints, varnishes, perfume, air fresheners, cleaning products, furniture's or from activities such as smoking, cooking, or burning wood.

The most common VOCs are formaldehyde, benzene, and ethylene glycol. Long-term exposure to VOCs arises many health issues, including the risk of growing cancer.

Learn more about [VOCs and their sources](#).

How to Select an Air Purifier for VOCs:

The most common air purifiers are based on HEPA filter, which is very effective at removing airborne particulates such as pollen, dust, pet dander, smoke particles, bacteria even some viruses that are sized down to 0.3 microns.

However, the HEPA filter is not able to capture VOCs, odors, or gas molecules from the air.

Technologies to filter VOCs:

The current technologies to filter VOCs and gases are Absorption (use of activated Carbon or Zeolites as porous media), Photocatalytic Oxidation (PCO), Plasma, and Ozone generation.

The use of activated carbon or charcoal is the most popular and safest method for household VOCs filtration. Learn more about [air filtration technologies](#).

VOC Air Purifiers Checklist:

1. Deep Bed of Activated Carbon or Absorbent media: Only select an air purifier that has an exclusive VOCs absorber, which uses activated carbon or zeolite pellets. Don't go for mesh or sponge type thin filter impregnated with carbon. A deep bed of activated carbon filter would be more effective.

2. PCO, Plasma, and Ozone Generator: PCO and Plasma are effective in neutralizing VOCs and odor, but sometimes they produce ozone or other harmful substances as byproducts. So, don't select these air purifier if you have asthma or breathing issues.

Ozone generators are not suitable to use in residential spaces.

3. VOC sensor: A built-in VOC sensor will help the air purifier to operate it accordingly when it senses VOCs in the air. Although this is not a very common feature and you can buy a separate [TVOC and Formaldehyde sensor](#) to monitor VOCs in the room.

4. Room Size Calculation: During particulates filtration, you need a high CFM air purifier. But, to neutralize VOCs and odor, you need to run the air purifier slow to medium speed to increases the dwell time (the time the air passes through the porous media) for high effectiveness.

So, select the air purifier with a maximum of 4 – 5 air changes per hour (ACH) for your room to meet the [minimum required CADR](#).








For example, if your room is 15 ft. x 20 ft. with 8 ft. ceiling and your maximum preferred ACH is 5, then you must need an air purifier that has a minimum CADR of 200 CFM.

Related reviews:

- [The 7 Best Air Purifiers for Smoke](#)
- [The 7 Best High CADR Air Purifiers](#)

List of the 7 Best Air Purifier for VOCs:

No.	Air Purifier	Image	Total Amount of Sorbent Media	VOC Sensor	Current Price on Amazon

No.	Air Purifier	Image	Total Amount of Sorbent Media	VOC Sensor	Current Price on Amazon
1	Oransi EJ120		1 - 3.5 lbs.	✗	Check Price
2	IQAir GC MultiGas		12 lbs.	✗	Check Price
3	EnviroKlenz Mobile Air System		1.5 lbs.	✗	Check Price
4	Austin Air HealthMate Plus		15 lbs.	✗	Check Price
5	Winix 5500-2		N/A	✓	Check Price
6	Blueair Pro		N/A	✓ (optional)	Check Price
7	Airpura F600		18 lbs.	✗	Check Price

1. ORANSI EJ120 AIR PURIFIER



Oransi EJ120 is equipped with a 1 lb. of a pleated activated carbon filter to remove VOCs, odors, and gases from the air. The independent test [demonstrates](#) more than 99% of efficiency in Formaldehyde, Sulfur Dioxide, and Nitrogen Dioxide removal within 48 hr time.

Also, they have another type of VOCs filter loaded with 3.5 lbs of activated carbon pellets called granular activated carbon (GAC) filter. However, the performance against VOCs of the GAC filter is lower than the pleated carbon filter. These 1-inch deep carbon filters last up to **12 months**.

The particle filter used in Oransi EJ120 is a 3-inch deep MERV 17 grade HEPA filter, which is more efficient than true HEPA as they claim.

It has been suggested to use two of the GAC filter instead of the HEPA filter and one pleated carbon filter combination to make it an ultimate VOCs removal machine.

Absorbent media: 1 lb. of pleated carbon filter or 3.5 lbs of granular activated carbon (GAC) filter

Clean Air Delivery Rate (CADR): 330 cfm

Suitable Room Size: 495 sq ft with 5 air changes/hr

Sensor: N/A

Replacement filter price: \$79 for [GAC carbon filter](#) and \$79 for [pleated carbon filter](#)

Pros

- ✓ Ultimate VOCs removal with 2 types of odor filter

Cons

- ✗ No VOC or particle sensor
- ✗ Bulky design, fewer features

- ✓ 3-inch deep bed MERV 17 grade HEPA filter (optional for VOCs)
- ✓ German DC motor, Low energy usage amid the high CFM
- ✓ The carbon filter can be used for up to 12 months
- ✓ 5 level fan speed, comparatively lower noise on the top speed
- ✓ CARB approved, AHAM verified
- ✓ Made in the USA, 10 years warranty

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2. IQAIR GC MULTIGAS AIR PURIFIER



IQAir GC (Gas Control) air purifier is primarily designed to remove VOCs, odors, and gases from the air. It is equipped with four cylindrical shaped gas cartridges that are summed 12 lbs of granular activated carbon and impregnated alumina as oxidizers for absorbing VOCs and odors.

The filters can be used for up to 30 months on daily 10 hours usage at level 3 fan speed. However, it depends on the VOCs and other gas concentrations in the air.

The first stage is an H11 class HyperHEPA Pre-Filter to capture particles at 0.3 microns with 99.97% efficiency. Also, it has an electrostatically charged fiber sleeves works as 3rd stage filtration.

The electrostatic nature will capture any leftover particles that pass through the 2 stage filters.

Absorbent media: 12 lbs of granular activated carbon (GAC) and impregnated alumina.

Clean Air Delivery Rate (CADR): 300 cfm

Suitable Room Size: 450 sq ft with 5 air changes/hr

Sensor: N/A

Replacement filter price: \$295 for four MultiGas Cartridges ([check availability & filter price](#))

Pros

- ✓ A large amount of activated carbon and alumina to absorb VOCs and gases
- ✓ Cylindrical shaped design to increase the total carbon filter surface area
- ✓ HyperHEPA filter to target particulate pollutants
- ✓ Long-lasting filters, 6 level fan speed
- ✓ 3-D sealed technology for leak-proof filtration
- ✓ Timers, filter reset indicator, LCD panel
- ✓ Off-gassing free material, Swiss made

Cons

- ✗ No VOC or dust sensor
- ✗ Expensive

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3. ENVIROKLENZ MOBILE AIR SYSTEM AIR PURIFIER



EnviroKlenz Mobile Air System adopts its [patented](#) Earth Mineral Technology to effectively remove VOCs and odors from the air than the traditional carbon filter and the plasma technology. The VOCs filter includes Magnesium Oxide, Zinc Oxide, and Titanium Dioxide as oxidizing agents to neutralize formaldehyde, ammonia, and other VOCs from the air.

This chemical absorption filter can be used for **5-6 months**.

Additionally, it has a powerful deep bed HEPA filter for particulates removal at 0.3 microns with 99.97% efficiency. This HEPA filter can be used for up to 24 months.

Absorbent media: Magnesium Oxide, Zinc Oxide, and Titanium Dioxide (1.5 lbs)

Clean Air Delivery Rate (CADR): 250 cfm

Suitable Room Size: 370 sq ft with 5 air changes/hr

Sensor: N/A

Replacement filter price: \$99 for VOCs filter ([check availability & filter price](#))

Pros

- ✓ Highly effective nanocrystalline particles to filter VOCs
- ✓ Don't off-gassing VOCs after absorbing on the filter
- ✓ Large HEPA filter area, 2 years filter life
- ✓ Durable metal casing, Easy operation

Cons

- ✗ No filter replacement indicator or no timer
- ✗ Noisy even in the lowest fan speed
- ✗ Industrial grade design

- ✓ Made in USA, five-year mechanical warranty

In-depth review of the UV model >>> [EnviroKlenz UV-C Air Purifier](#)

[Check Current Price on EnviroKlenz](#)

[Check Current Price of the UV Model](#)

4. AUSTIN AIR HEALTHMATE PLUS AIR PURIFIER



Austin Air Healthmate Plus incorporates a compact 4-stage drum filter to remove both particulate and gas pollutants. The filter used 15 lbs of activated carbon and zeolite media impregnated with potassium iodide to absorb VOCs, formaldehyde, odors, and gases.

The 60 square feet high efficiency (HEPA) filter is capable of removing 99.97% of 0.3-micron particles. The filter can be used for up to 5 years.

Absorbent media: 15 lbs of activated carbon and zeolite media impregnated with potassium iodide

Clean Air Delivery Rate (CADR): 400 cfm

Suitable Room Size: 600 sq ft with 5 air changes/hr

Sensor: N/A

Replacement filter price: ~ \$360 for the 4 stage filter cartridge ([check availability & filter price](#))

Pros

- ✓ A deep bed of activated carbon filter
- ✓ Very good at VOCs and formaldehyde removal
- ✓ Durable metal housing
- ✓ High airflow, 3 level fan speed
- ✓ Long-lasting filter (5 years)
- ✓ 5 years warranty, Made in the USA

Cons

- ✗ No timer or filter change indicators
- ✗ No VOC or particle sensor

In-depth review >>> [Austin Air HealthMate Plus Air Purifier](#)

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5. WINIX 5500-2 AIR PURIFIER



Winix 5500-2 is a budget-friendly air purifier that comes with all necessary mechanisms to combat odors. The primary VOCs filter is a honeycomb structured activated carbon filter, and the secondary filtration for VOCs is Plasmawave.

Instead of a particle sensor, it comes with an odor sensor to detect VOCs in the air.

The AOC carbon filter can be washed with water, which will boost the absorption effectiveness during its **12 months** lifespan.

Additionally, it equipped with a true HEPA grade particle filter, which will block any tiny particulates from the air that are sized down to 0.3 microns.

VOC filters: Activated Carbon (mechanical) and Plasma Wave (electronic)

Absorbent media: activated carbon

Clean Air Delivery Rate (CADR): 232 cfm

Suitable Room Size: 350 sq ft with 5 air changes/hr

Sensor: VOC sensor

Replacement filter price: \$60 for HEPA and Carbon filter combo ([check availability & filter price](#))

Pros

- ✓ Advanced Odor Control (AOC) carbon filter
- ✓ Plasmawave technology to neutralize VOCs and odor
- ✓ VOC sensor, automatic mode
- ✓ True HEPA and permanent pre-filter
- ✓ Both the pre-filter and the AOC carbon filter are washable with water
- ✓ Ambient light sensor, filter replace the indicator
- ✓ CARB approved, AHAM verified

Cons

- ⊘ Not suitable for heavily VOC contamination

[Check Current Price on Amazon](#)

6. BLUEAIR PRO AIR PURIFIER WITH SMOMESTOP FILTER



Blueair Pro air purifier has an option to remove VOCs, odor, and gas pollutants with its SmokeStop filter combination. The unique v-shaped honeycomb structured filter contains thermally-bonded polyolefin and activated carbon pellets to remove all kinds of VOCs, gases, and odors.

Blueair Pro comes with 3 size variants. The gas sensor is included only in the XL model. Also, the modular gas sensor is optional for the medium and the large model.

Absorbent media: Thermally bonded polyolefin and activated carbon pellets.

Clean Air Delivery Rate (CADR): 330 cfm (Pro M), 660 cfm (Pro L), and 990 cfm (Pro XL).

Suitable Room Size: 390 sq ft (Pro M), 780 sq ft (Pro L), and 1180 sq ft (Pro XL) with 5 air changes/hr

Sensor: Particle and Gas sensor. Optional for Pro M and Pro L, included with Pro XL

Replacement filter price: \$129 for a single Smokestop filter ([check availability & filter price](#))

Pros

- ✓ 3 size variants to choose from
- ✓ Deep bed activated carbon filter
- ✓ The v-shaped design ensures a larger filter area
- ✓ Low noise profile, high airflow rate
- ✓ AHAM verified, energy star certified

Cons

- ✗ Air quality sensor is optional for Pro M and Pro L

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7. AIRPURA F600 AIR PURIFIER



The carbon filter of Airpura F600 is primarily designed to remove formaldehyde, the most common VOCs found in the home. The filter uses 18 lbs of impregnated activated carbon (35% potassium permanganate, 65% coconut shell), which is capable of removing VOCs, odors, and some gases at a higher rate than a traditional carbon filter. The filter can be used for up to **24 months**.

Alongside the chemical filter, Airpura F600 comes with a 40 square feet of H13 grade HEPA filter to remove all airborne particles that are sized 0.3 microns at 99.97% efficiency. It also has a pre-filter to protect the primary filter, which is also vacuumed washable.

Absorbent media: 18 lbs of activated carbon substances

Clean Air Delivery Rate (CADR): 560 cfm

Suitable Room Size: 840 sq ft with 5 air changes/hr

Sensor: N/A

Pros

- ✓ Large amount of activated carbon substances
- ✓ Long-lasting filters, vacuum washable filter
- ✓ High airflow rate for particles, 360-degree air intake
- ✓ Heavy duty for chemical and odor filtration
- ✓ Durable steel housing, made in Canada

Cons

- ✗ Fewer features, basic old design
- ✗ No timers, no filter replacement indicator
- ✗ No particle/gas sensor to measure air quality
- ✗ Bulky design, maintenance is not easy

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Final Thoughts

The best way to remove VOCs, odors, and gases from the air is well-ventilation. The fresh air from outside is very effective at lowering the VOCs concentration from the indoor air. As the chemical absorption from the air is a slower process, an air purifier with VOCs and odor filters might help in a poorly ventilated area.



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