



# AIR PURIFIER ACU-K15C



Decoration weapon · double-faced man

Directly hit the new house, strongly remove formaldehyde

**Air Purifier K15C**



PAINTING



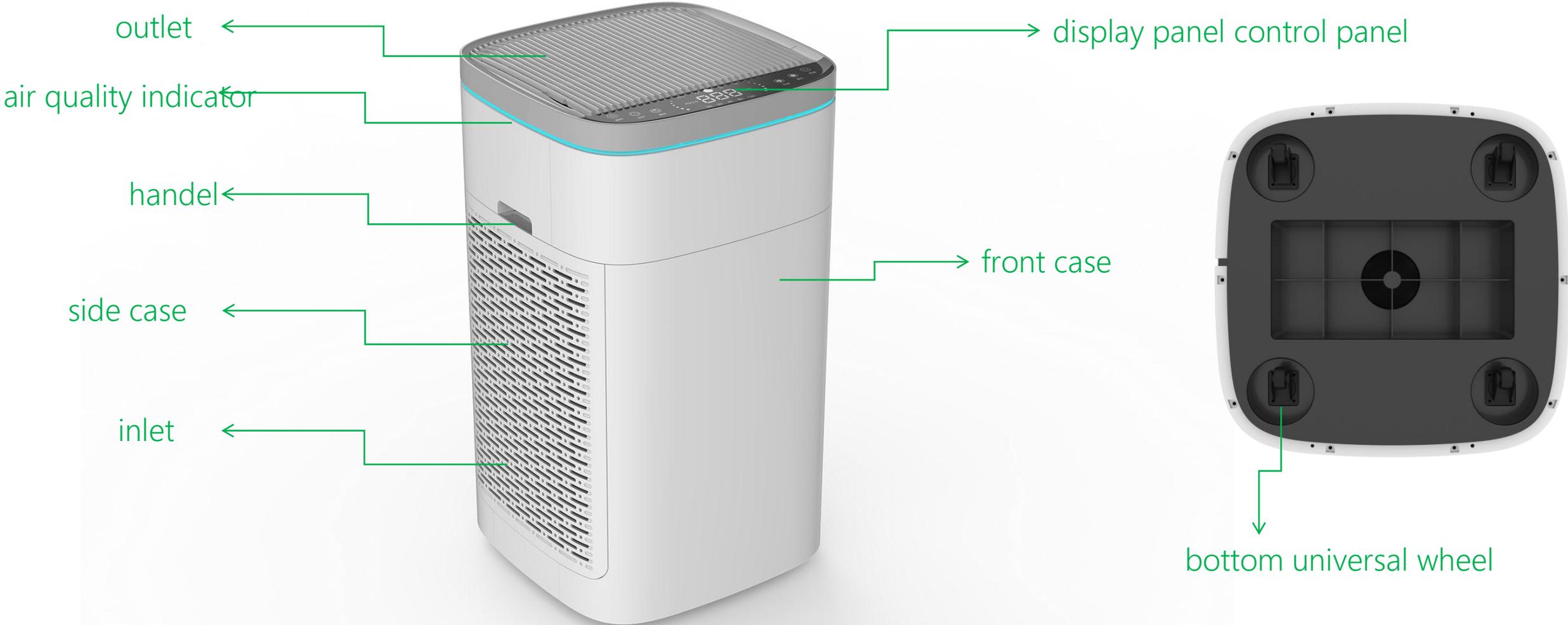
# Quickly remove new home formaldehyde

Double air duct, double filter, double effect clean

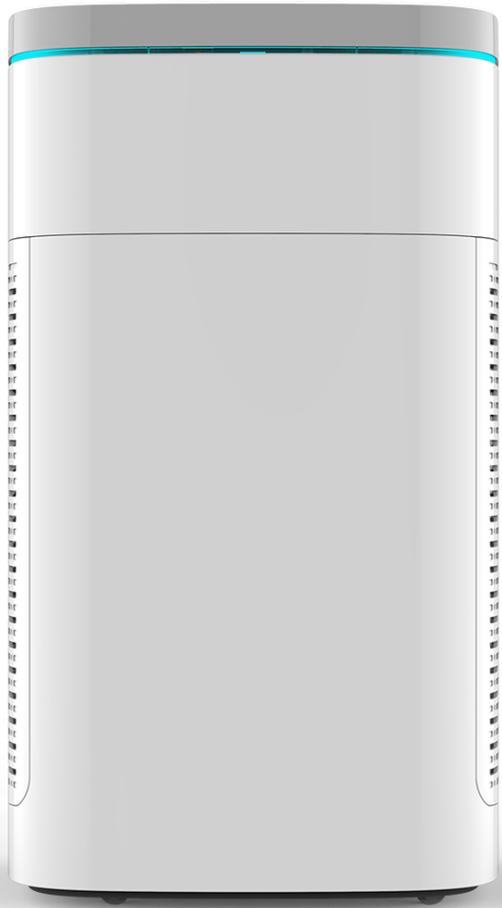
- Removal of formaldehyde - 400m<sup>3</sup> / h formaldehyde CADR
- Remove PM2.5 - 800m<sup>3</sup> / h particulate matter CADR
- Remove allergens - pollen, dust, mites, bacteria, odors, etc.



# Product display



# Product showing



Front



Back



Side



3D

# product features



## Small body, great effect

40×40×66.9cm  
Particulate matter CADR 800m<sup>3</sup>/h  
Purify 30m<sup>2</sup> room once in 6 mins  
Applicable area up to 56-96m<sup>2</sup>

## High air volume, low noise

Double air duct double side  
booster air intake design  
Plastic brushless DC motor  
Double forward wind wheel  
misaligned blade design  
Noise reduction duct design

## Multiple powerful purification

The primary filter can be  
cleaned repeatedly  
H12 HEPA high efficiency  
filtration rate  
Imported coconut shell carbon  
adsorption is stronger  
High concentration negative  
ion purification

## Infrared sensing accurate

10 seconds response time  
Start working for 60 seconds  
Real-time monitoring is accurate  
and stable  
Using a unique algorithm to  
measure the room  
Airborne particulate matter  
concentration

## Wifi control

WIFI remote control  
Not at home, first clean  
Filter life monitoring reminder  
PM2.5 real-time display is  
more accurate

## Operational humanization

Timed purification  
Manual operation control  
Nighttime sleep automatic control  
Dual display  
Universal wheel easy to move

# Cool Modern

The feature of the side parting line is extended upwards, and the layering feeling and the lighting atmosphere created by the difference in surface height are more fashionable and scientific.



# Square Body

Arc aesthetics, no corners are safer

14KG stable

669MM noble



# Strong Purification



Efficient  
removal PM  
2.5

Particulates CADR : 800m<sup>3</sup>/h  
above  
Particulate CCM : P4  
Energy efficiency value: high  
efficiency value

CH<sub>2</sub>O

Formaldehyde CADR: 400m<sup>3</sup>/h  
Formaldehyde CCM: F4  
Energy efficiency value: high  
efficiency value

ION

10 million ions/cm<sup>3</sup> high concentration negative ions  
Effectively remove PM<sub>2.5</sub>, dust, dust mites, pollen,  
bacteria, odor, soot, second-hand smoke and other air  
pollution, the removal rate is 99.98%

# 7.5 minutes, the room air is completely new

A 36m<sup>2</sup> living room, air purification once, only 7.5 minutes

Applicable : 56~96m<sup>2</sup>

Living room 36m<sup>2</sup>

7.5min

Living room 18m<sup>2</sup>

3.9min

Living room 11m<sup>2</sup>

2.3min

800m<sup>3</sup>/h

Particulates  
CADR

400m<sup>3</sup>/h

Formaldehyde  
CADR



# Double-layer filter design Double-side booster air intake setting

Double output clean air

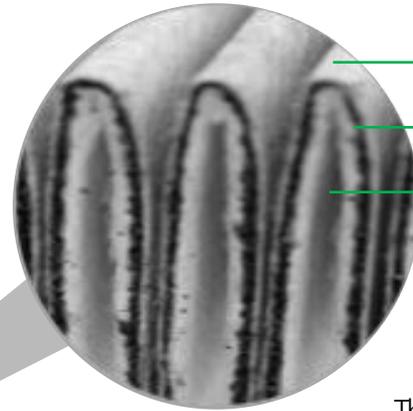


# Pre filter

1. The front plastic dust filter can filter out large particles of dust, dander, pollen, floating matter and other pollutants.
2. Multi-grid plastic filter, small initial resistance, large dust holding capacity and long service life
3. Light weight, compact structure and easy installation
4. Can be cleaned repeatedly with compressed air purge or cleaning solution, repeated use
5. Easy to dissipate heat and extend the service life of fan motor



# Composite carbon cloth filter



→ Support layer

→ Mezzanine functional particles

→ High efficiency HEPA filter

The composite screen can surround the smaller diameter functional particles between the HEPA filter material and the support layer, making it more in contact with air and more effective in adsorbing formaldehyde and other pollutants. The filter has a lower filter than conventional activated carbon + HEPA.

It can effectively filter harmful particles such as 20 nm and PM2.5, formaldehyde and other volatile organic compounds, effectively filtering various allergens and common bacterial viruses.

The single piece of the filter weighs approximately 800g and is relatively light. The interior is made of functional particles that have been treated by a special process. It is small and its surface is covered with tiny pores. It is safe and effective compared to coal-based carbon materials commonly used in industry, and does not generate dust. Functional particles with a high specific surface area increase the chemisorption and catalysis, increase the amount of adsorption, and simultaneously oxidize the organic compounds in the air, converting them into CO<sub>2</sub> and H<sub>2</sub>O, which fundamentally solves the pollution problem. In order to avoid secondary pollution of formaldehyde caused by adsorption saturation, the composite filter has a higher CCM value.

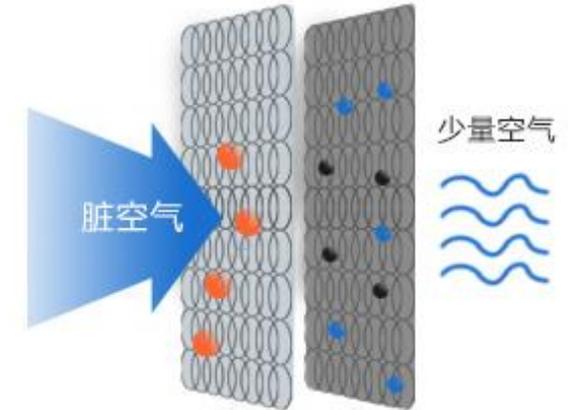
# Composite carbon cloth filter compared with traditional filter

## Traditional activated carbon + HEPA filter

The traditional filter screen is a two-in-one filter screen mainly composed of an activated carbon filter + a HEPA filter. The activated carbon can remove dissolved organic substances, synthesize detergents, microorganisms, viruses and a certain amount of heavy metals, and can decolorize, Deodorize. The odor is lightened by artificial enzymatic decomposition and catalysis by a chemical adsorbent until the odor is sufficiently adsorbed. Activated carbon is a commonly used type of air purification material. The activated carbon used in the usual practice is mainly physical adsorption, and the adsorption capacity is limited, and it is easy to cause secondary pollution.

HEPA is a high efficiency air filter. It can effectively remove fine particles such as PM2.5 and remove 99.998%. With the long-term purification, the filter is also reduced in pollution level, which is a drawback.

The air purifier of the composite filter structure has only one filter combination. And thick, no gap penetration. It combines the deodorizing filter, activated carbon filter and HEPA filter of the traditional air purifier filter. Designed for superior purification efficiency and long life, it filters out suspended particles. Multi-layer integrated filter for versatile all-round protection. Ultra-fine filters effectively filter out small particles as small as 20 nanometers (100 times smaller than the upper limit of PM2.5), including some common bacteria and viruses that effectively filter allergens.

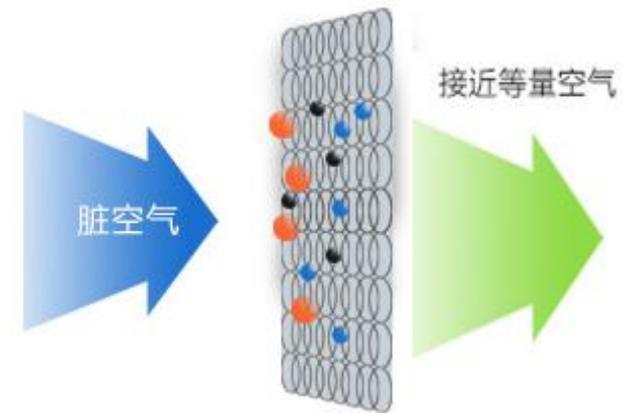


## Carbon cloth composite filter

The interior of the filter is filled with functional particles with a large number of nanoscale micropores, most of which are less than 2 nanometers. It has the extraordinary efficiency and capacity to efficiently filter formaldehyde, toluene and total volatile organic compounds.

Composite filters are much better in effect than traditional filters. The purification effect of the composite filter is a cross-stacked manufacturing structure, and the air must pass through multiple turns to pass, increasing the adsorption rate. Therefore, the single purification efficiency is higher, and the pollution purification time is shorter. The traditional filter screen is a vertical placement of multiple layers of different functions, and the filter has a single purification efficiency that is worse than that of the composite filter. Increase the area of the filter material, covered with dense activated carbon, increase the CCM value.

Not all filters are thicker, the better, but also the air flow. The composite filter can be combined with a traditional filter, which combines all the materials and increases the area of the filter to allow the contaminated air to be purified more quickly. The composite filter is designed to inherit this concept.



# Negative ion cruise sterilization

The high concentration of negative ions of 10 million/cm<sup>3</sup> allows you to take the forest air home without going far.

Negative ions can cause indoor dust, smoke, viruses, and bacteria, which are usually positively charged, to gather together, and the ability to float freely in the air quickly drops, thereby purifying the air.

Negative ions release small particle size negative ions that are beneficial to human health. Negative ions can not only effectively remove dust, sterilize, and purify the air. Negative ions also promote adult body synthesis and storage of vitamins, strengthen and activate the body's physiological activities, so it is also known as "air vitamins." 10 million/cm<sup>3</sup> of high concentration of negative ions to supplement your body



# Quiet . whisper

40-65.9dB

Photosensitive function: The method of using the AD method for light sampling. When the ambient light is below 3 lumens and the duration is 2 minutes, the air purifier enters sleep mode; when the ambient light is greater than 10 lumens and lasts longer than 5 minutes, the machine exits sleep mode. After exiting sleep mode, the machine will remain in working condition before entering sleep mode.

Enter sleep mode to automatically reduce the fan speed, reduce the noise level, comfort and mute, the machine screen is off, the machine's all lights are also off, healthy sleep.





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## Upper wind, big loop

The double forward fan increases the air volume and the misaligned blade design. Quickly agitate the indoor air so that clean air flows quickly to every corner.

## 3 speeds, strong and soft

Three wind speeds are available for adjustment, and the agility is natural.

The third wind is fierce, the second wind is mild, and the first wind is gentle.

All the speeds meet your needs.



# Timer purification

Give you a fresh and healthy environment at any time

When the power is on, touch the time button, and the timed shutdown function is increased by 1 hour each time.

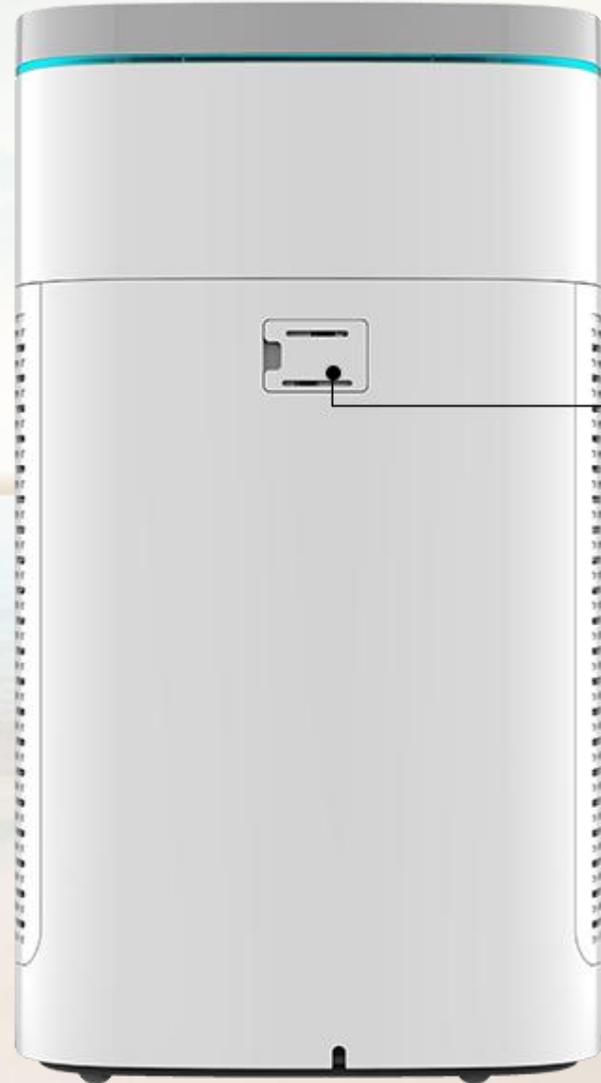
After pressing for 12 hours, press again to turn off the timed shutdown function.



# PM2.5 Dust sensor

The infrared dust sensor is used, which is cost-effective, stable in performance, long in life and easy to clean. Based on the same principle of light scattering as the particle counter, the unique detection method is used to output the absolute number of particles in the unit volume as a pulse signal for accurate display.

1. Response time 10 seconds
2. Start working 60 seconds stably
3. Real-time monitoring, accurate and stable data
4. Monitoring particle size range of  $0.3\mu\text{m}$ - $10\mu\text{m}$  (expandable)



# Strip air quality atmosphere light

Visual display of air quality



When the corresponding function is operated, the corresponding indicator above the button lights up, and the corresponding icon on the display lights up. Dual interface PM2.5 real-time digital display and front air quality ambient lighting design, more accurate, you can see the air quality value whether you are standing or sitting in the distance.

PM2.5 real-time digital display Ambient light green blue orange red four colors display air quality

air quality  
good

000

1--50

air quality  
general

000

51--100

air quality  
bad

000

101--200

air quality  
dirty

000

200以上

# Multi-function touch panel

[Enjoy cleanliness between your fingers]



filter replacement  
reminder

timer

child lock

power

mode

speed

# Thousand miles away can also be controlled

Reserved function APP intelligent air management (customized), air quality PM2.5 real-time display, negative ion, wind speed controlled.

There is no distance limit, no purification before entering the house, and clean breathing also requires great wisdom.



# Air quality PM2.5 real-time display

Through APP (customized), you can monitor the air quality PM2.5 operating parameters in real time, and the air quality is in control!



Excellent air quality, the screen is green

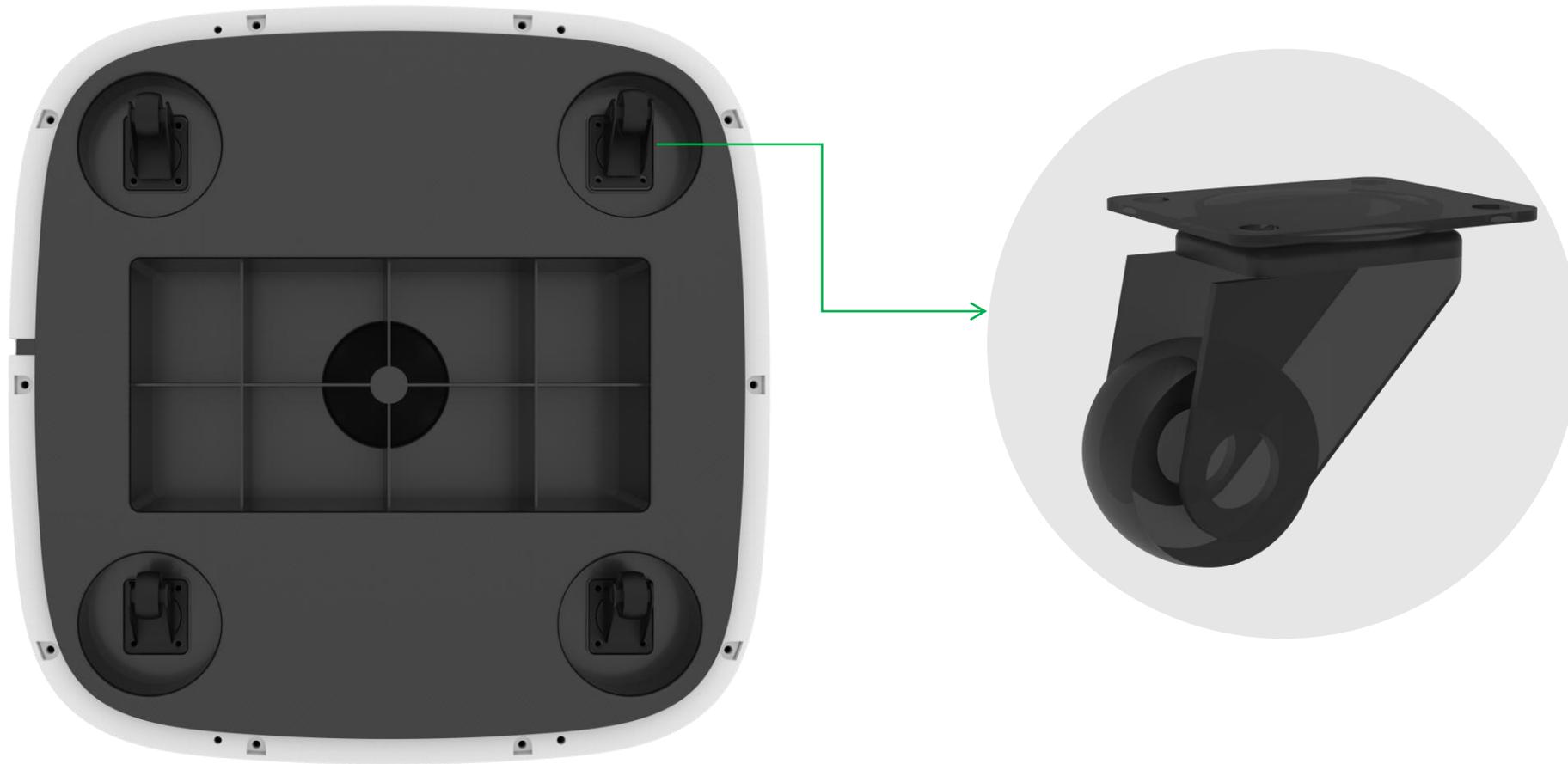
Good air quality, the screen is blue

Light pollutant air quality, the screen is yellow

Serious pollutant air quality, the screen is red

# 360° Universal Wheel

The universal wheel design moves freely to each room  
The living room, bedroom, study, and kitchen can be moved at will, saving effort and not hurting the floor.



# Air duct system

The air duct is designed according to Archimedes' involute curve, which makes the air duct smooth and minimizes wind resistance.

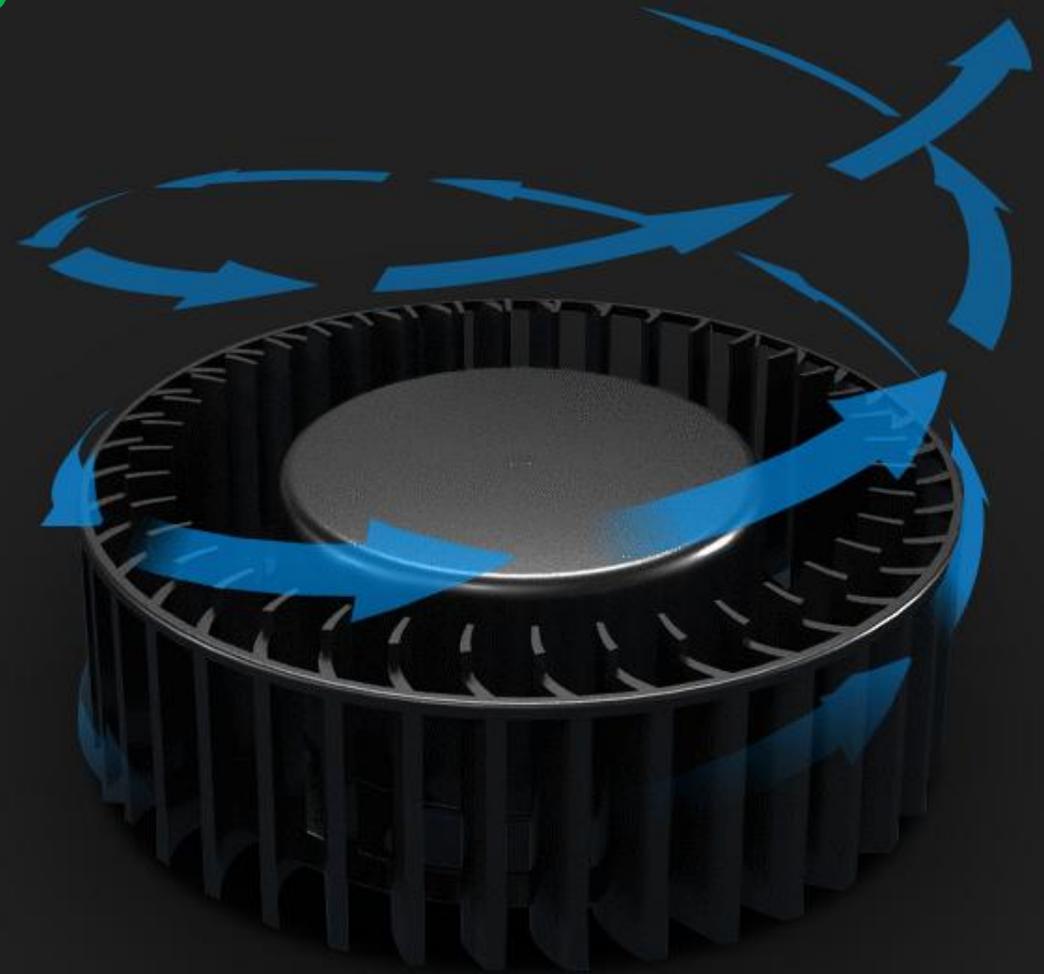
Double-sided air inlet system on both sides, the same motor speed, double the action area, increase the air inlet area, smoother air intake, greater wind flow, higher efficiency, help to form a wide range of air circulation and accelerate the improvement of air quality.



# Centrifugal fan

The centrifugal fan adopts multi-wing type, and the wind wheel has a flat surface without burrs. It is corrected by an electronic power balancer with high precision and good aerodynamic performance, ensuring smooth and smooth running gas flowing through the air duct.

The large-size double forward fan increases the air volume; the large-diameter wind wheel increases the air inlet area; and the multi-blade effectively increases the effective area of the wind wheel. A larger amount of wind is output under the same motor speed to achieve a large flux of airflow. The design of the misaligned blades reduces the wind current and the wind noise by cutting the airflow more evenly.



## Plastic sealed brushless DC motor

The centrifugal wind wheel is equipped with a brushless DC motor. It has excellent technology and direct connection. It has low vibration, low noise, high insulation performance and low resistance. It is more stable, quieter, safer and more energy efficient.

The stator core and winding of the motor are integrally packaged with engineering plastics using plastic packaging technology.

1. **Low noise** due to the use of symmetrical concentric encapsulation of the stator core and the molded structure, thereby improving the rigidity of the stator and reducing the noise; under the power frequency power supply, the sound pressure of the plastic motor is 7 dB lower than that of the rigid shell motor; Under the power supply, it is reduced by 9 decibels.
2. **Low vibration** Since the stator of the motor has become a whole, the small imbalance of the rotor suppresses the generation of vibration.
3. **Good insulation performance** The insulation performance of conventional motors is between 10 and 100  $\Omega$ . The resistance of this plastic-sealed motor is below 10  $\Omega$ . The corona start voltage (CSV) of the motor after injection molding insulation is 1.2 times that of ordinary varnish insulated motors.
4. In addition, this plastic motor has the characteristics of **corrosion resistance, moisture resistance and high temperature resistance**.
5. It can **save about 10% of electricity** compared with ordinary motors.



# 13 safety protections

## Non-toxic

1. Adopt environmentally friendly materials
2. Non-toxic and no secondary pollution



## No harm

3. No ozone hazard
4. No radiation pollution



## Anti-collision

5. Rounded square body
6. High tough acrylic panel



## Easy moving

7. Body handle design prevents hand slip
8. Universal wheel design



## Fire protection

9. Open the cover and automatically power off
10. Pour 15° automatic power off
11. Overvoltage and overcurrent protection
12. Motor overheat protection



## Anti-injury

13. Child lock design



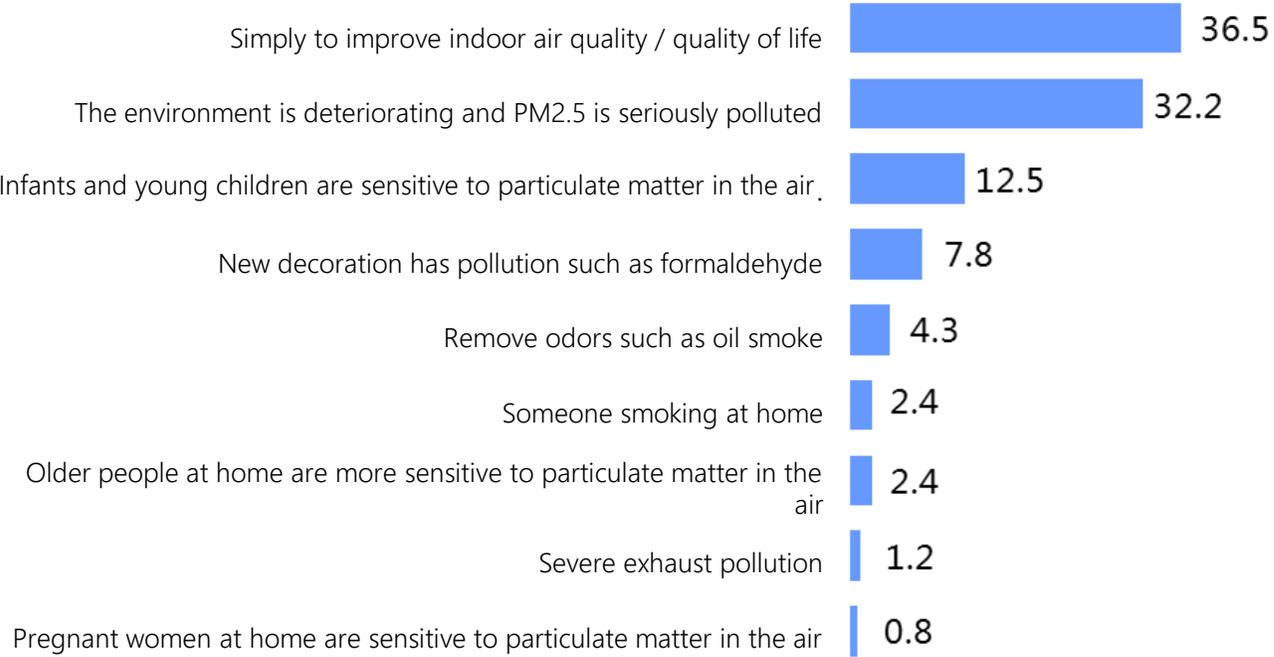
# Product parameters



Product name	Air Purifier	Model no.	K15C
Particulates CADR	800m <sup>3</sup> /h above	Working way	Intelligent purification
Particulates CCM	P4	Negative ion concentration	> 10×10 <sup>6</sup> ions/cm <sup>3</sup>
Gaseous Pollutant CADR	400m <sup>3</sup> /h above	Rated voltage	AC 220V/50Hz
Gaseous Pollutant CCM	F4	Rated Power	85W
Gaseous Pollutant purification energy efficiency	High efficiency	Stanby Power	≤2W
Noise (sleep )	40dB	Power cord length	Exposed length1.8 ~ 2.0m
Noise (highest speed )	65.9dB	Product size (LHW)	400×400×669mm
Applicable area	56~96m <sup>2</sup>	Net weight	14.0Kg

# Market demand

## Reasons for purchasing an air purifier



The reasons for purchasing an air purifier are mainly focused on:

- 1. Pursuit of higher air cleanliness
- 2. Haze impact
- 3. Decoration pollution or other odors
- 4. Sub-health susceptible population



Fresh breath Starts from choice

## K15C Air purifier

Air purifier expert brings healthier life

