OLANSI 澳兰斯

K09 Air purifier
2.1 Product structure

Main engine
HEPA Compound filter
Pre-filter
Back shell
2.2 Product characteristics

**High efficient purification**
- Particle CADR 600m³/h
- Formaldehyde CADR 200m³/h
- Fast capture active purification
  only 10 minutes to purify a room with 36㎡
- App. Area 42-72㎡

**Multiple comprehensive purification**
- Prefilter can be washable
- H11 Hepa filter
- Imported coconut shell activated carbon adsorption stronger
- High concentration negative ion purification

**Large air volume and low noise**
- Optimize the fold gap of filter screen
- Silence of plastic encapsulated brushless motor
- Tuyere process upgrade noise reduction
- Duct optimization design

**Laser sensing precision**
- 10 second response time
- Boot 60 seconds stable work
- Real time monitoring, precision and stability
- Using unique algorithm to measure indoor
- Concentration of suspended particulate matter in air

**WiFi**
- WiFi remote control
- Purification before arriving home
- Filter life monitoring reminder
- TVOC real time display
- Real time display of temperature and humidity

**Safe and humane**
- Child lock
- Smart mode, purify auto
- Six level speed
- Open lid power off
- Universal casters move convenient
## 2.3 Product details

<table>
<thead>
<tr>
<th>Living room 36 m²</th>
<th>600 m³/h CADR</th>
<th>Formaldehyde CADR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Living room 18 m²</td>
<td>200 m³/h</td>
<td></td>
</tr>
<tr>
<td>Living room 11 m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 min</td>
<td>3 min</td>
</tr>
</tbody>
</table>

Only ten minutes to purify a room with 36 m²
2.3 Product introduction

Negative ions can make the indoor dust, smoke, viruses and bacteria which are usually positively charged together, lose the ability to float freely in the air, and purify the air. $10 \times 10^6$ ions/cm$^3$ high concentrations of negative ions quickly cover the whole room, so you do not need to travel to enjoy the forest breathing. Negative ions release small amount of negative ions which are beneficial to human health. Negative ions can not only effectively remove dust, sterilize and purify air. Negative ions also contribute to the synthesis and storage of vitamins in human body, and strengthen and activate the physiological activities of the human body, so it is also called "air vitamin". $10$ million /cm$^3$ high concentrations of negative ions allow your body to add enough vitamins.
2.3 Product details

**HEPA** The antibacterial material of high filtration efficiency, low flow resistance, long time of continuous use to reduce material cost, 0.3 micron particulate filter 99.97%, efficient filter PM2.5, bacteria, allergens (efficient, comprehensive and lasting)

**Activated carbon** Imported natural coconut shell activated carbon with large specific surface area, high strength, uniform particle size, developed pore structure, strong adsorption and low resistance with rapid decomposition of formaldehyde, toluene, TVOCs capture and other harmful gases, the use of materials in the field of drinking water.

**Anti-formaldehyde** High efficiency promotion of formaldehyde adsorption capacity.

**Pre-filter** filter out larger particles, such as human and animal hair, dander, cottony material can be repeated cleaning and recycling.
2.3 Product details

The composite filter screen can be used to wrap the smaller functional particles between the HEPA filter material and the supporting layer to make it have greater contact area to the air, and the adsorption effect on formaldehyde and other pollutants is more significant. Compared with the common activated carbon + HEPA, the combined filter has lower filtration resistance. On the other hand, the composite filter can effectively filter as small as 20 nm and PM2.5 harmful particles, formaldehyde and other volatile organic compounds, at the same time, a variety of allergens and high efficiency filter.

See bacterial virus. The single chip weight is about 800g, relatively light. By interlayer functional particles, special processing after the fine surface is covered with tiny pores of the carbon material is commonly used in coal industry, its safety and efficiency, does not produce dust particles, and through the function after machining, the high surface area, increased the chemical adsorption and catalysis effect of increasing the adsorption amount at the same time, organic compounds can catalytic oxidation in the air, the conversion of CO2 and H2O, fundamentally solve the problem of pollution, avoid two pollution due to saturation after caused by formaldehyde, so the relatively higher CCM composite filter.
Comparison between composite carbon cloth screen and traditional filter screen

The traditional filter is mainly composed of activated carbon filter + HEPA filter in the filter, activated carbon can remove dissolved organic substances, heavy metals, synthetic detergent, microorganism, virus and a certain amount, and decolorization and deodorization. By artificial enzyme decomposition and catalysis of chemical adsorbent, the odor is reduced until the odor is fully absorbed. Activated carbon is a kind of commonly used air purification materials, the activated carbon used in ordinary use of physical adsorption mainly, and the adsorption capacity is limited, and easy to cause two pollution. HEPA is an efficient air filter. The removal rate of fine particles such as PM2.5 can be effectively removed by 99.998%. With the long time purification, the pollution level of the filter screen is also reduced, which is a drawback at present. Air purifier with compound screen structure, it has only one strainer combination. And thick, seamless penetration. It combines the traditional air purifier screen deodorizing screen, activated carbon filter and HEPA filter. Excellent purification efficiency and long service life can be achieved, and suspended particles can be filtered out. Multi layer integrated filter screen can realize multifunction and omnibearing protection. Super fine filter can effectively filter as small as 20 nm (100 times smaller than the upper limit of PM2.5) of tiny particles, including some of the common bacteria and viruses, effective allergen filter.

The filter is filled with functional particles with a large number of nanoscale pores, most of which are less than 2 nanometers. It has the extraordinary efficiency and capacity to filter formaldehyde, toluene and total volatile organic compounds efficiently. The composite filter is much better in effect than the traditional filter. In the purification effect, the composite filter screen adopts the cross laminated manufacturing structure, and the air must pass through many turning points to increase the adsorption rate. Therefore, the single purification efficiency is higher, and the pollution purification time is shorter. The traditional filter screen is vertically placed with multilayer filters with different functions, and the single purification efficiency of the filter is less than that of the composite filter. Increase the area of filter material, full of densely packed activated carbon, increase the CCM value. Not all the thicker the filter is, the better it depends on the air flow. The composite filter can be combined with the traditional filter, it can combine all the materials, increase the area of the filter, so that the pollution of the air faster purification. The composite filter is designed according to this concept.
2.3 Product details

Science and technology noise reduction, enjoy sleep without worry

Optimize the fold gap, further reduce the wind resistance, reduce noise.

Plastic brushless DC motor has the advantages of low noise, small vibration and good insulation. It is quieter, more stable and safer.

Night sleep mode automatically lower fan speed, reduce noise level, as low as 20dB (A) comfortable, mute, healthy sleep

<table>
<thead>
<tr>
<th>Quite night</th>
<th>K09 Night mode</th>
<th>Pouring sound</th>
<th>office sound</th>
<th>K09 High speed</th>
<th>Highest</th>
</tr>
</thead>
<tbody>
<tr>
<td>20dB</td>
<td>20dB(A)</td>
<td>40dB</td>
<td>50dB</td>
<td>68dB(A)</td>
<td>70dB</td>
</tr>
</tbody>
</table>
2.3 Product details

Laser sensors are accurate and sensitive

High sensitivity laser sensor uses laser scattering principle and unique algorithm to measure the mass concentration of suspended particulate matter in indoor air.

- **01** Response time 10 seconds
- **02** Boot 60 seconds stable work
- **03** Real-time monitoring, accurate and stable data
- **04** The monitoring particle size range is 0.3 μm to 10 μm
- **05** PM2.5 Effective range: 0 ~ 1000 μg / m3
You can control it thousands of miles away

APP intelligent air management, air quality at a glance. No distance restrictions, no home purification, clean breathing also need great wisdom.

According to the real-time concentration, stall air volume, running time to calculate the filter life, scientific management.
Multi faceted monitoring

Air quality index PM2.5, TVOC, filter lifetime, air temperature, air humidity display

Green blue orange red show air quality

<table>
<thead>
<tr>
<th>Air Quality</th>
<th>Air Quality</th>
<th>Air Quality</th>
<th>Air Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good</td>
<td>Normal</td>
<td>Bad</td>
<td>Pollutions</td>
</tr>
<tr>
<td>000</td>
<td>000</td>
<td>000</td>
<td>000</td>
</tr>
</tbody>
</table>

PM2.5 Display
Remote Intelligent control
Temperature display
Humidity display
2.3 Product details

No ozone harm, no radiation pollution

The whole machine adopts environmental protection material, non-toxic and harmless, does not produce two pollution

Power off protection, open cover broken motor body tilt power off

The child lock design, after the mode is opened, other keys will be locked, effectively prevent the risk caused by children misoperation

Body handle design to prevent hand slip

Universal wheel design, free movement, easy and convenient

Multi direction care, safety and rest assured
2.4 Product parameter

**Fresh breath starts with choice**

Air purification experts make life healthier

<table>
<thead>
<tr>
<th>Product name</th>
<th>Air purifier</th>
<th>Model</th>
<th>K09</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particle CADR</td>
<td>600m³/h</td>
<td>Principle</td>
<td>Smart purification</td>
</tr>
<tr>
<td>Cumulative purification level of particulate matter</td>
<td>P4</td>
<td>Anion</td>
<td>&gt;10×10⁶ ions/cm³</td>
</tr>
<tr>
<td>Energy efficiency of particulate matter purification</td>
<td>High efficiency level &gt;7</td>
<td>Voltage</td>
<td>AC 220V/50Hz</td>
</tr>
<tr>
<td>Gaseous pollutants CADR</td>
<td>200m³/h</td>
<td>Power</td>
<td>85W</td>
</tr>
<tr>
<td>Cumulative purification level of gaseous pollutants</td>
<td>F4</td>
<td>Standby power</td>
<td>≤2W</td>
</tr>
<tr>
<td>Cumulative purification level of gaseous pollutants</td>
<td>High efficiency level</td>
<td>Power cord length</td>
<td>2 meters</td>
</tr>
<tr>
<td>Noise (Sleep)</td>
<td>20 dB(A)</td>
<td>Product size</td>
<td>479×269×710mm</td>
</tr>
<tr>
<td>Noise (Maximum)</td>
<td>68 dB(A)</td>
<td>Packaging size</td>
<td>528×333×808mm</td>
</tr>
<tr>
<td>Applicable area</td>
<td>42~72m²</td>
<td>Net weight</td>
<td>10.5Kg</td>
</tr>
</tbody>
</table>
Thank you